

U.G.C
AGENDA
AND
PROCEEDINGS
NO. 188
21ST FEBRUARY 1977

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Minutes of the 188th meeting of the University Grants Commission held on February 21, 1977.

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The following were present:

Professor Satish Chandra	..	Chairman
Professor B. Ramachandra Rao	..	Vice-Chairman
Shri K.N. Channa	..	Member
Professor R.P. Bambah	..	Member
Professor S.S. Saluja	..	Member
Professor (Miss) A.J. Dastur		Member
Professor S. Gopal	..	Member
Professor Amrik Singh Chemma		Member
Professor Magbool Ahmed	..	Member
Professor B.M. Udgaonkar	..	Member
Shri R.K. Chhabra	..	Secretary

Shri G. Ramachandran and Dr. Chandran D.S. Devanesen expressed their inability to attend the meeting.

SECRETARIAT

Additional Secretary

Dr. D. Shankar Narayan

Joint Secretaries

Dr. J.N. Kaul
Dr. S.K. Dasgupta

Deputy Secretaries

Shri S. Viswanath
Dr. S.C. Goel
Dr. S.P. Gupta
Dr. M.L. Mehta
Dr. T.N. Hajela
Shri Y.D. Sharma
Shri A.B. Gupta
Shri M.P. Balakrishnan

Finance Officer

Shri R.P. Bhattacharjee.

At the outset, the Chairman referred to the demise of Shri Fakhruddin Ali Ahmed, President of India on February 11, 1977. The Commission placed on record its deep sense of sorrow and grievous loss at the passing away of Shri Fakhruddin Ali Ahmed, an educationist and statesman. The Commission observed a minute's silence in memory of the departed leader and resolved to convey its sense of sorrow to the members of the bereaved family.

Item No.1: To receive minutes of the meeting of the Commission held on 31st January, 1977.

Minutes of the 187th meeting of the Commission held on January 31st, 1977 were confirmed subject to the following:

Item No.10 - The first sentence may read as follows:-

"The Commission agreed that the amount payable to visiting lecturers invited by the universities under the Programme of Centres of Advanced Study, Departments for Special Assistance, all India level institutes suggested by the Panels may be at the rate of Rs.100/- per lecture, normally subject to a maximum of Rs.400/- for one teacher in any one academic year."

Item No.11: The following may be added at the end of the resolution:

"It was also agreed that it may be possible for the Commission to consider requests for additional grants depending on the progress the implementation of the scheme by individual universities."

Item No.2(a): To approve the action taken on certain matters

The Commission approved the action taken on items listed in Appendix 1*

The Commission desired that the number of journals annually subscribed to by a College may continue to be one of

the criteria for selection under CONSIP. The rating scale, however, may be modified to suit actual conditions. The Colleges selected under the Scheme may be encouraged and supported to subscribe to standard and scholarly journals.

Item No.2(b): To receive the items of information.

This was noted.

Item No.2(c): To approve the statement of proposals which could not be accepted by the Commission.

This was noted.

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 31st January, 1977.

The Commission approved the grants released after the last meeting of the Commission held on 31st January, 1977 (Appendix II)*.

Item No.4: To receive the statement of expenditure incurred by the University Grants Commission during 1976-77 upto 31st December, 1976.

This was noted.

Item No.5: To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 31st January, 1977.

This was noted.

Item No.6: To consider the feasibility Report prepared by Bombay University on the Regional Instrumentation Centre.

*Not enclosed.

The Commission accepted in principle the setting up of a Regional Instrumentation Centre at Bombay University as outlined in the Feasibility Report. The Commission, however, desired that proper coordination between this Centre and the Regional Sophisticated Instrumentation Centre of the I.I.T. Bombay may be ensured. The expenditure to be incurred for setting up of the Regional Instrumentation Centre may be suitably phased out within the estimates proposed during the current plan period. Construction of the building may be so phased that the part to be constructed in the Phase-I in the first year would be available for the functioning of this Centre at an early date.

As regards the appointment of a Director and the scale of pay to be attached to the post, the Commission was of the view that in case a University Professor with necessary qualifications and experience is appointed, he may be permitted to carry his scale of pay of a Professor, otherwise the scale of pay applicable for similar post in the CSIR may be adopted.

The educational institutions in the region may be enabled to utilise the repair and maintenance facilities offered by the Regional Instrumentation Centre. As regards the maintenance and repairs of the instruments of the Colleges, the expenditure for transport and travel in connection with the repairs would be met by the colleges concerned. However, the question of the agency which could provide for cost of spares used may be further examined.

The Regional Instrumentation Centre should not duplicate the work already being done in COSIP Colleges and COSIP-ULP Departments but it may collaborate and help the university departments which have taken up COSIP programmes in the design of scientific equipment, required for undergraduate students.

With regard to the suggestion made by Professor Rais Ahmed to train persons for maintenance of scientific instruments consequent upon the introduction of 10+2 pattern of education may be further discussed with the NCERT.

Item No.7 To consider reference received from the Government of India, Ministry of Education and Social Welfare regarding the minimum qualifications laid down for recruitment to the post of Lecturers consequent upon the revision of scales of pay of University and College teachers.

The Commission considered the reference received from the Government of India, Ministry of Education and

Social Welfare regarding the minimum qualifications laid down for the recruitment to the post of lecturer consequent to the revision of scales of pay of university and college teachers and resolved as under:

- (i) The question of relaxation of qualifications of lecturers, retrenched by private managements due to various reasons like discontinuation of certain courses or reduction in enrolment etc., who do not possess the qualifications now prescribed by the Commission for recruitment to the post of Lecturers on the introduction of revised scales of pay, may be examined with the help of a Committee.
- (ii) The minimum qualifications for recruitment to the post of Lecturers in the faculties of arts, science and commerce in the colleges may be as follows:-

College Lecturers:

- (a) A consistently good academic record with at least 1st or high second class (B in the seven point scale) at the Master's degree in a relevant subject or an equivalent degree of a foreign university; and
- (b) An M.Phil degree or a recognised degree beyond the Master's level or published work indicating the capacity of a candidate for independent research work.

Provided that if the selection committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of a very high standard, it may relax any of the prescribed qualifications prescribed in (a) above.

Provided further that if a candidate possessing the qualification as at (b) above is not available or not considered suitable the college, on the recommendation of the Selection Committee may appoint a person possessing a consistently good academic record on the condition that he will have to obtain an M.Phil degree or a recognised degree beyond the Master's level within five years of his appointment, failing which he will not be able to earn future increments till he obtains that degree or gives evidence of equivalent published work of high standard.

(iii) (a) The salary of a Lecturer on re-employment on attaining the age of superannuation may be fixed in the same scale of pay which the incumbent was drawing at the time of retirement.

(b) A teacher on attaining the age of superannuation not be re-employed beyond the age of 65 years. The duration of re-employment after the age of superannuation of the teacher may be determined at the time of such appointment. The Commission was not in favour of re-appointing teachers for a year at a time. Normally, re-appointments should be a period of two to three years in the first instance.

(c) The minimum qualifications laid down for the recruitment of lecturers in the departments/faculties in Law may not be applicable in the case of part-time teachers since such personnels will be drawn from the profession itself.

(d) Arising out of the discussions, the Commission notes that some of the State Governments which are implementing the revised scales of pay for university and college teachers have stipulated that existing teachers in colleges should also acquire the qualifications now prescribed by the U.G.C. for appointment of fresh teachers under the revised scales of pay within a period of five years from the date of introduction of the revised scales, failing which they would not be allowed to draw their future increments. The Commission reiterated its earlier view that the qualifications now prescribed by the U.G.C. pertain only to fresh appointments of lecturers in the colleges and not to the existing teachers. Only those existing lecturers in colleges who do not possess at the time of their initial recruitment minimum qualifications as prescribed by the U.G.C. concerned at the time of appointment should be required to attain these qualifications within five years from the date of placement in the revised scale. If they are unable to do so during this period, they shall not be allowed to earn any future increments till they have satisfied this condition.

The Ministry of Education and Social Welfare be requested to bring the above to the notice of State Governments.

Item No.8: To receive the recommendations of the Committee appointed to consider the question of establishment of a Centre for Canadian Studies in India.

This was noted.

Item No.9: To consider the report of the Visiting Committee to the University of Hyderabad.

The Commission generally accepted the recommendations of the Visiting Committee subject to the following:

- (i) The University may be advised to have only one School of Physical Sciences consisting of departments of Physics, Chemistry and Mathematics and the related inter-disciplinary areas within them.
- (ii) The question of establishing School of Environmental Geosciences and a School of Creative Arts may be taken up in connection with the development of the University during the VI Plan period.
- (iii) The University may select a few selected areas of development in each of the Schools depending upon the interest of the faculty that may be appointed in these Schools.
- (iv) It would be desirable for the University to set up a Central Library on a priority basis. The University may also provide some reasonable but limited accommodation for the library in the different Schools but not for each department.
- (v) Funds for the purchase of major equipment should be rationally distributed among the different Schools/departments and the equipment required should be linked with the interests of the faculty to be appointed. The major research equipment, wherever necessary, could be kept in the concerned Schools and not necessarily in the Central Instrumentation Laboratory. But it should be ensured that this equipment is available to all the users.
- (vi) The University should ensure that the Master's courses in the Social Sciences as recommended by the Working Group are started with effect from the academic year 1977. The staff recommended by the Visiting Committee may be appointed to be available for academic session 1977-78.
- (vii) The University may be requested to indicate the phasing of the different schemes as recommended by the Visiting Committee keeping in view the observations made above and that a sum not exceedin

Rs.6 crores may be available to the University during the current Plan period including the amount already sanctioned to the University

(viii) Urgent steps may be taken to make recruitment of the faculty already approved by the Commission

Item No.10: To consider the report of the Visiting Commission appointed to review and assess the development proposals of the P.G. Courses in the colleges located in the District of Coimbatore and affiliated to the University of Madras (i) Sri Ramakrishnan Mission Vidyalaya, Coimbatore, (ii) PSGR Krishnammal College for Women, Coimbatore, (iii) Sri Avinashilingam Home Science College for Women, Coimbatore (iv) P.S.G. Arts College, Coimbatore, and (v) Government Arts College, Coimbatore.

The Commission desired that this may be further examined, taking into account the organisation of postgraduate courses in the Postgraduate Centre, Coimbatore and affiliated colleges of the Madras University.

Item No.11: To consider the recommendations of the National Seminar on Correspondence Education held at the Punjabi University, Patiala.

The Commission considered the recommendations made at the Seminar on Correspondence Education held on October 4-6, 1976 at the Panjabi University, Patiala and made the following observations:-

(i) In the interest of maintenance of standards the academic responsibility for Correspondence Courses should be with the respective university departments.

(ii) The staff for Correspondence Courses should be borne on the strength of the university teaching departments.

(iii) In view of the above, the question of having a faculty of Correspondence Education with its own boards of studies in the Directorates/Institutes/Schools of Correspondence Courses does not arise.

(iv) The standard of Correspondence Courses should be so high as to attract the private and other categories of candidates.

(v) The course material for Correspondence Course students at the postgraduate level should essentially be in the nature of guidelines rather than on lecture notes.

(vi) The Scheme of Correspondence Courses should be implemented by the universities in accordance with the UGC guidelines.

Item No.12: To consider a reference from Indian National Science Academy, New Delhi, regarding establishment of Professional Chairs to commemorate the services of the distinguished Scientists.

The Commission was of the view that it may not be possible to create four professional Chairs as suggested by the Indian National Science Academy. The Commission, would, however, have no objection if the existing departments of a University especially a Centre of Advanced Study or a Department of Special Assistance name any of the existing chairs after the Scientists.

Item No.13: To consider the following proposals received from Aligarh Muslim University for additional assistance during Fifth Plan period:

- a) Assistance for staff, books and building for the Department of Statistics.
 - b) Creation of two posts of Physical Instructors in the Women's College.
 - c) Construction of Hostel for 600 students.
 - d) Assistance for Scholarships.
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The Commission considered the proposals of Aligarh Muslim University for additional assistance during the Fifth Plan period and agreed as under:

a) As the Commission has already agreed to provide assistance to the universities for books and equipment recommended in II and III priorities by the Visiting Committees, amount recommended for these items under II and III priorities for the department of statistics may be approved. The amount recommended by the Visiting Committee for building for Statistics Department under II and III priorities may also be approved within Fifth Plan

allocation(Non-recurring). The question of providing assistance for two Senior Investigators in the Statistics Department may be further examined. The proposal for providing a Lecturer's post in Statistics in the Women College could not be agreed to.

b) One post of Physical Instructor for the women college may be approved in the scale of Rs.700-1300.

c) A grant of Rs.15,00,000 may be approved in principle for students hostel. The Commission also accepted in principle the proposal of the University for construction of an Administrative Block. It was noted that with the construction of this block accommodation would be made available for 120 students in Sir Syed Hall.

d) As regards assistance for scholarships and fellowships created by the University, the Commission desired that additional information may be obtained from the University in the light of the discussions held.

The Commission further desired that before approval for additional staff and buildings is conveyed to the universities under II and III priorities, the University concerned may be requested to indicate specific action taken by it on the various recommendations made in the report of the Visiting Committee accepted by the Commission.

Item No.14: To consider a proposal from the Magadh University for the change in specialisation of the various posts sanctioned under the Fifth Plan Development Scheme.

The Commission accepted the proposal of Magadh University for the change of specialisation for the post of Professor already approved in Operational Research/Statistics/Computer Analysis to Applied Mathematics and that of Reader approved in Biomathematics/Computer Science to Pure Mathematics.

in Hindi

The Commission did not consider it necessary to effect any change in the specialisation already agreed to respect of the post of Professor in Literary Criticism.

The proposal of the University to keep open the post of Reader in Tibetan Studies was accepted.

The Commission felt that for the posts of Professor and Reader in Political Science, area of specialisation may

be specified. The University may, however, ensure that both the posts are not filled in the same area of specialisation.

As for the proposal to change the specialisation for the post of Professor in Cost Accounting/Business Management, the Commission could not accept the proposal of the University.

Item No.15: To consider the proposal of the Nagpur University for change in specialisation of the faculty positions sanctioned during Fifth Plan.

The Commission accepted the proposal of the Nagpur University for the creation of a post of Reader in Pali and Prakrit as recommended by the Visiting Committee.

Item No.16: To consider the proposal of the Jodhpur University for change in specialisation of faculty positions sanctioned during the Fifth Plan.

The Commission could not accept the proposal of Jodhpur University for change of specialisation or conversion of faculty positions in the Departments of Hindi and History.

Item No.17: To consider the proposal of the Punjabi University for the conversion of the post of the Reader approved in the Fifth Plan into that of a Professor in the Department of Political Science.

The Commission agreed to provide one post of Professor in Political Science in the Panjabi University, Patiala in lieu of the post of Reader in Political Science originally agreed to.

Item No.18: To consider the proposals of the Guru Nanak Dev University (i) for the conversion of teaching posts from ~~one~~ department to another or in the same department and (ii) for the approval of the Commission to fill up teaching posts recommended by the Visiting Committee under third priority.

The Commission agreed that the proposed Central University at Pondicherry may be set up during 1977-78. It was further agreed that the draft bill for the establishment of the University may in the first instance be referred to the Committee of Vice-Chancellors of the Central Universities and then brought up before the Commission along with its recommendations.

Item No.25: To consider the observations of the Panels in the Humanities and Social Sciences and Sciences on Guidelines for the introduction of M.Phil Courses.

The Commission agreed that the suggestion made by the different panels may be examined with the help of a Committee.

In this connection, the Commission desired that the Universities may be advised that in the interest of maintaining proper standards it would be desirable that the Universities obtain the concurrence of the Commission before instituting new M.Phil courses. The universities may also be informed that the Commission would soon be intimating the guidelines for instituting such courses.

Item No.26: To further consider the proposals received from the Centre of Advanced Study in Mathematics, Bombay University, for utilisation of grants during the Fifth Plan period.

The Commission accepted the proposal of the Centre of Advanced Study in Mathematics, Bombay University and agreed to provide assistance as indicated below during the Fifth Plan period on the usual conditions.

Non-recurring:

1) Building	..	Rs.5.00 lakhs
2) Equipment including furniture (including basic grant)	..	Rs.1.00 "
3) Books and Journals (including basic grant)	..	Rs.1.25 "
4) Mini-bus or other vehicle..		Rs.1.00 "
Total(Non-recurring)	..	<u>Rs.8.25 lakhs</u>

Recurring:

- 1) Staff
(6 senior positions
(Professors or Readers),
two lecturers, to be filled
in a phased manner depending on
the availability of suitable
people).
- 2) Visiting Fellows Rs.12,000 p.a.
- 3) Travel Rs. 3,000 p.a.
- 4) Publications Rs. 3,000 p.a.
- 5) Books and Journals Rs.27,500 p.a.
- 6) Contingencies Rs. 4,500 p.a.

The Commission desired that the Central University may be requested to take immediate action with regard to the recruitment of senior faculty in the departments as recommended by the Committee.

Item No.27: To note the date and place for the next meeting of the Commission.

It was noted that the next meeting of the Commission will be held in New Delhi on March 21, 1977.

Item No.28: To consider a Scheme 'adult education through universities' received from the Ministry of Education.

The Commission welcomed the scheme of the Ministry of Education and Social Welfare on Adult Education through the Universities and noted that the scheme when finalised would be implemented by the Commission under the Scheme of Adult and Continuing Education for which earmarked funds would be provided by the Ministry of Education.

Item No.29: To consider the revised proposals of the Bangalore University for the construction of Science Blocks at the New Campus and purchase of books and journals and Science equipments within the overall fifth plan allocation.

The Commission accepted in principle to assist Bangalore University for the construction of science buildings at the new campus within the overall Fifth Plan allocation (Non-recurring) available to the University. The Commission however desired that the University may be requested to intimate the specific action taken by it on the various recommendations made in the report of the Visiting Committee accepted by the Commission. The University may be further requested to intimate the purposes for which the existing buildings would be utilised consequent upon the shifting of the science departments to the new campus. The grants requested by the University for scientific equipment, books and journals provided in the second and third priorities may be sanctioned as per decision taken by the Commission earlier.

Item No.30: To consider a reference received from the Vice-Chancellor, University of Science of Malaysia requesting the U.G.C. to send a delegation to participate in South East Asian Regional Conference on University Physics Education proposed to be held from 16th to 21st May, 1977 at Penang, Malaysia.

The Commission agreed that a delegation of 5-6 persons may participate in the South East Asian Regional Conference on Physics Education to be held in May, 1977 at Penang (Malaysia). It was noted that the provision for travel expenses as well as for subsistence of the delegation would be made by the Commission.

R.K.Chhabra
Secretary

Satish Chandra
Chairman

UNIVERSITY GRANTS COMMISSION

Meeting

Dated : 21st February, 1977.
Time : 10.00 A.M.
Place : U.G.C. Office,
New Delhi.

A G E N D A

- Item No. 1 To receive minutes of the meeting of the Commission held on 31st January, 1977.
- Item No. 2 a) To approve the action taken on certain matters.
b) To receive the items of information.
c) To approve the statement of proposals which could not be accepted by the Commission.
- Item No. 3 To approve the statement of grants released after the last meeting of the Commission held on 31st January, 1977.
- Item No. 4 To receive the statement of expenditure incurred by the University Grants Commission during 1976-77 upto 31st December, 1976.
- Item No. 5 To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 31st January, 1977. p-1-2.
- Item No. 6 To consider the feasibility Report prepared by Bombay University on the Regional Instrumentation Centre.p.3-8.
- Item No. 7 To consider reference received from the Government of India, Ministry of Education and Social Welfare regarding the minimum qualifications laid down for recruitment to the post of Lecturers consequent upon the revision of scales of pay of University & College teachers.p.9-15
- Item No. 8 To receive the recommendations of the Committee appointed to consider the question of establishment of a Centre for Canadian Studies in India. p.16-19.
- Item No. 9 To consider the report of the Visiting Committee to the University of Hyderabad.p-20-29.

- Item No.10 To consider the report of the Visiting Committee appointed to review and assess the development proposals of the P.G. Courses in the colleges located in the District of Coimbatore and affiliated to the University of Madras
(i) Shri Ramakrishna Mission Vidyalaya, Coimbatore,
(ii) PSGR Krishnammal College for Women, Coimbatore,
(iii) Sri Avinashilingam Home Science College for Women, Coimbatore, (iv) P.S.G.Arts College, Coimbatore, and (v) Government Arts College, Coimbatore. p-30-48.
- Item No.11 To consider the recommendations of the National Seminar on Correspondence Education held at the Punjabi University, Patiala. 49-54.
- Item No.12 To consider a reference from Indian National Science Academy, New Delhi, regarding establishment of Professional Chairs to ~~commemorate~~ the services of the distinguished Scientists. p-55.
- Item No.13 To consider the following proposals received from Aligarh Muslim University for additional assistance during V Plan period: p-56-69.
- a) Assistance for staff, books and building for the Department of Statistics.
 - b) Creation of two posts of Physical Instructors in the Women's College.
 - c) Construction of Hostel for 600 students.
 - d) Assistance for Scholarships.
- Item No.14 To consider a proposal from the Magadh University for the change in specialisation of the various post sanctioned under the 5th Plan Development Scheme. p-76-77.
- Item No.15 To consider the proposal of the Nagpur University for change in specialisation of the faculty position sanctioned during V Plan. p-78.
- Item No.16 To consider the proposal of the Jodhpur University for change in specialisation of faculty positions sanctioned during the V Plan. p-79-84.
- Item No.17 To consider the proposal of the Punjabi University for the conversion of the post of the Reader approved in the Fifth Plan into that of a Professor in the Department of Political Science. p-85-87.

- Item No.18 To consider the proposals of the Guru Nanak Dev University (i) for the conversion of teaching posts from the department to another or in the same department and (ii) for the approval of the Commission to fill up teaching posts recommended by the Visiting Committee under third priority. p-88-9
- Item No.19 To consider a proposal from Burdwan University for additional assistance for staff, Air-conditioning of Culture Room and Guest House in the Fifth Plan period. p.97-107.
- Item No.20 To consider a proposal from Rabindra Bharati University for purchase of a collection of 47 original paintings of Abanindra Nath Tagore and Gaganandra Nath Tagore. p.108-113.
- Item No.21 To consider a proposal from Bhagalpur University for assistance for construction of one Men Hostel and one Women Hostel for 100 students each in 5th Plan period. p-114-115.
- Item No.22 To consider the proposal of the S.N.D.T. Women's University for grant for Celebration of Diamond Jubilee of the University. p-116-117.
- Item No.23 To consider the proposal of Dr.B.P. Sinha for carrying out research on "Chirand Excavations". p-118-119.
- Item No.24 To consider a reference from the Government of India regarding establishment of a Central University in Pondicherry. (Secret)
- Item No.25 To consider the observations of the Panels in the Humanities and Social Sciences and Sciences on Guidelines for the introduction of M.Phil Courses. p. 120-144
- Item No.26 To further consider the proposals received from the Centre of Advanced Study in Mathematics, Bombay University, for utilisation of grants during the Fifth Plan period. p 145-166
- Item No.27 To note the date and place for the next meeting of the Commission.
- Any other item.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting:

Date : 21st February, 1977
Time : 10.00 A.M.
Place : U.G.C. Office, New Delhi.

A G E N D A

- Item No. 28 : To consider a Scheme of adult education through universities received from the Ministry of Education, p-167-169.
- Item No. 29 : To consider the revised proposals of the Bangalore University for the construction of Science Blocks at the New Campus and purchase of books and journals and Science equipments within the over-all fifth plan allocation, p 170-182
- Item No. 30 : To consider a reference received from the Vice-Chancellor, University of Science of Malaysia requesting the U.G.C. to send a delegation to participate in South East Asian Regional Conference on University Physics Education proposed to be held from 16th to 21st May, 1977 at Penang, Malaysia. p. 183-188.

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UNIVERSITY GRANTS COMMISSION

Minutes of the 187th meeting of the University Grants Commission held on 31st January, 1977.

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The following were present:

Professor Satish Chandra	- Chairman
Professor B. Ramachandra Rao	- Vice-Chairman
Shri K.N. Channa	- Member
Shri G. Ramachandran	- Member
Professor R.P. Bambah	- Member
Professor S.S. Saluja	- Member
Professor(Miss) A.J.Dastur	- Member
Professor Amrik Singh Cheema	- Member
Professor Magbool Ahmed	- Member
Professor B.M. Udgaonkar	- Member
Shri R.K. Chhabra	- Secretary

Professor S. Gopal and Dr. Chandran D.S.Devanesen expressed their inability to attend the meeting.

SECRETARIAT

Additional Secretary

Dr. D. Shankar Narayan

Joint Secretary

Dr. J.N. Kaul

Deputy Secretaries

Shri S. Viswanath
Dr. S.C. Goel
Shri S.P. Gupta
Dr. M.L. Mehta
Dr. T.N. Hajela
Shri Y.D. Sharma
Shri A.B. Gupta

Director (SRC)

Dr. Jagdish Shankar

Finance Officer

Shri R.P. Bhattacharjee

At the outset, the Chairman mentioned about the sad demise of Shri T.P. Singh, who was a member of the Commission from June 30, 1971 to November 3, 1972.

The Commission recalled the valuable services to the UGC of the late Shri T.P. Singh during his tenure as member of the Commission. The Commission resolved to convey to members of the bereaved family its sense of greivous loss and condolences. As a token of their respect to the memory of the departed soul, the members observed silence for a minute.

The Chairman referred to Professor J.B. Chitambar's retirement from the membership of the Commission and subsequent nomination of Dr. Anrik Singh Cheema, Vice-Chancellor, Panjab Agricultural University, Ludhiana, in his place.

The Commission placed on record its appreciation of the valuable services rendered by Professor Chitambar as member of the University Grants Commission.

The Chairman welcomed Dr. Anrik Singh Cheema appointed as a member of the Commission, in place of Professor J.B. Chitambar.

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Item No. 1 : To receive minutes of the meeting of the Commission held on 20th December, 1976.

The minutes of the 186th meeting of the Commission held on December 20, 1976 were confirmed.

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Item No. 2 : a) To approve the action taken on certain matters.
b) To receive the items of information.
c) To approve the statement of proposals which could not be accepted by the Commission.

(a) The Commission approved the action taken on items listed in Appendix I* subject to the following :

2(a)(8) - It was agreed that the grant of Rs.3 lakhs as recommended by the visiting committee for purchase of equipment for the Department of Bio-Sciences may be made available to the South Gujarat University.

(b) This was noted.

p.t.o.

The Commission also noted the communication received from the Government of India regarding revision of scales of pay of the librarians and Directors of Physical Education in the Central Universities.

Arising out of 2(b)(6), it was agreed that a committee may be appointed to suggest the minimum qualifications for appointment to the posts of lecturers, readers and professors in the Faculty of Engineering & Technology keeping in view the qualifications prescribed, consequent upon the revision of scales of pay, by the Government of India for such posts in engineering colleges. This committee may also take into account the recommendations made by the Panel on Engineering & Technology.

(c) This was noted.

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Item No. 3 : To approve the statement of grants released after the last meeting of the Commission held on 20th December, 1976.

The Commission approved the grants released after the last meeting of the Commission held on December 20, 1976 (Appendix II)*.

....

Item No. 4 : To receive the statement of expenditure incurred by the University Grants Commission during 1976-77 upto 30th November, 1976.

This was noted.

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Item No. 5 : To consider the observations of the Panels in the Humanities and Social Sciences on the Guidelines for introduction of M.Phil Courses.

Consideration of this item was postponed. It was decided that the matter may be brought up again at the next meeting along with the views of the Science Panels on the subject.

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*Not enclosed.

p.t.o.

Item No. 6 : To consider the recommendations of the working group on students welfare programmes.

The Commission generally endorsed the recommendations of the Working Group on Student Welfare Programmes and agreed as follows:

(a) Canteens

Assistance be provided for establishment/improvement of canteens to colleges be treated one of the schemes for assistance under the Rupees five lakhs scheme.

(b) Improvement of hostels

Assistance may be provided to the universities and colleges for improvement of living conditions in hostels, e.g. sanitary facilities, proper dining halls etc. The Commission's assistance which will be outside fifth plan allocation may be provided on 75:25 sharing basis.

(c) Students Aid Fund

Assistance to universities and colleges for Students Aid Fund may be twice the amount collected by the institution subject to the limits indicated below wef. 1.7.1977 :

A - Universities

Direct enrolment below 5000 = Rs.25,000
Direct enrolment of 5000 and above = Rs.50,000

B - Colleges

On a scale as indicated in Appendix III.

(d) Study Centres

The scheme for Study Centres be continued in V Plan and assistance be provided to the Study Centres on the following basis:

	<u>Existing Study Centres</u>	<u>New Study Centres</u>
(i) <u>Non-Recurring</u>		
Books	Rs. 20,000	Rs. 30,000
Stacks and furniture	-	Rs. 15,000
(ii) <u>Recurring</u> (per annum till the end of V Plan)		
(i) Staff	Rs. 5,000 (additional)	Rs. 15,000
(ii) Contingencies (including electricity charges etc.)	Rs. 1,500 (additional)	Rs. 4,500

(e) Sports

The main objective of promoting games and sports and physical education in the universities and colleges should be to enable the participation by as large number of students as possible.

Assistance may be provided to the universities and colleges for gymnasium and improvement of play fields out of the funds of the UGC on the same sharing basis as given earlier with the help of specific funds made available by the Government of India. In this connection it was noted that the estimated cost of the construction of gymnasium will have to be reviewed in the light of the present costs of construction.

In this connection it was agreed that the type of facilities that may be provided in the gymnasium to include some indoor games may be further examined.

The Commission desired that adequate safeguard should be provided while sanctioning grants for buildings to the universities to ensure that the State Governments would make provision of adequate funds for the maintenance of these buildings. Normally, the provision for this should be on the same basis as provided by the Government for their own buildings.

....

Item No. 7 : To consider the report of the committee appointed by the University Grants Commission to review the working of correspondence courses at Himachal Pradesh University, Simla.

The Commission considered the report of the committee appointed by it to review the working of the correspondence courses at the Himachal Pradesh University, Simla, and felt concerned that the courses in this University were being run without adequate facilities and qualified staff. In order to strengthen the correspondence courses at the postgraduate level, the Commission agreed to give assistance towards the following facilities:

A. Staff

1 Reader each in History, Economics, Political Science, English, Hindi and Commerce.

2 Readers in Education.

2 Lecturers in Commerce.

B. Others

- (i) Library Books - Rs. 3 lakhs
- (ii) Improvement of instructional material - Rs. 1.75 lakh
- (iii) Equipment (for Linguistics and Audio-Visual aids) - Rs. 0.5 lakh

The question of setting up of Study Centres and provision of contact programmes may be examined further keeping in view the need for coordination of efforts by the universities in the region.

The assistance of the UGC will be on condition that (1) the university would follow the UGC guidelines laid down for correspondence courses. Correspondence courses in other subjects should not be started without the prior concurrence of the Commission; (2) Additional staff would be appointed on the strength of the main university departments. In Commerce for which there is no university department, the staff may be borne on the strength of Department of Business Management; (3) Selection of teachers will be made through properly constituted selection committees and procedure for selection, qualifications etc. will be the same as for the other corresponding staff of the university; (4) No part of the income from correspondence courses whether at the undergraduate level or at the postgraduate level will be utilised for any purpose other than for the development of the correspondence courses; (5) Books in the library of correspondence courses will be loaned out to the students in the same manner as in the case of the book banks.

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Item No. 8 : To consider a reference from the Ministry of Education and Social Welfare regarding recognition of Army Special Certificate for purposes of admission to universities.

The Commission considered a reference from the Ministry of Education & Social Welfare regarding facilities to be provided to Ex-Army personnel for admission to university level courses and was of the view that the level of the ASC may be brought to the +2 stage in the new pattern of 10+2+3. In the meantime, keeping in view the maturity and motivation of ex-servicemen, the university may consider giving admission to ex-servicemen with ASC for admission to the 1st degree level correspondence courses.

....

Item No. 9 : To consider certain matters regarding reservation of teaching posts in the Universities of Kerala.

This was noted.

....

Item No.10 : To consider matter relating to payment of honorarium etc. to distinguished Scholars/ Scientists for delivering lectures at universities under various programmes.

The Commission agreed that the honorarium payable to visiting lecturers invited by the universities under the programme Centres of Advanced Study, Department of Special Assistance, All India Level Institutes suggested by the Panels may be at Rs.100/- per lecture subject to maximum of Rs.400/- for any one teacher in any one academic year. This would not be applicable in the case of persons invited to deliver lectures under the scheme of extension lectures, summer institutes, workshops and seminars. It may not be necessary for the universities to obtain prior approval of the Commission for extending such invitations to Indian nationals.

Financial provision for inviting fellows may be made in the case of all departments participating under the Special Assistance Programme as in the case of Centres of Advanced Study.

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Item No.11 : To consider further the guidelines laid down for visiting Professors/Visiting appointments in universities.

The Commission considered the importance and value of universities inviting visiting faculty for short or long periods for improvement of standards and agreed that a grant of Rs. one lakh may be made available to each of the universities and the deemed universities during the current plan period. This would be in addition to any provision that the universities may have also made within their V Plan allocation. This amount should be utilised in accordance with the guidelines laid down by the Commission. It would not be necessary for the universities to refer individual cases under the scheme for approval by the Commission.

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Item No.12 : To receive a note on the programme of academic collaboration between the Department of Biological Sciences, Madurai University and Frankfurt University (Professor Neuweiler's Group), F.R.G.

This was noted.

...

Item No.13 : To consider the recommendation of the Committee appointed by the University Grants Commission for undertaking translation of Russian Scientific and Technical Journals into English.

The Commission considered the report of the Committee appointed by the UGC for undertaking the translation of Russian Scientific and Technical Journals into English at the Jawaharlal Nehru University. The Commission, while generally endorsing the recommendations made by the committee, felt that it would not be possible for the Commission to set-up a National Agency for this purpose. It was agreed that the report of the Committee may be sent to the Ministry of Education for their consideration. In this connection, it was also suggested that some of the existing agencies like ICSSR, ICHR and INSDOC which are engaged in such work could be further strengthened to undertake this responsibility.

....

Item No.14 : To further consider the report of the Fifth Plan Visiting Committee of the Birla Institute of Technology and Science, Pilani.

The Commission further considered the report of the Fifth Plan Visiting Committee taking into view the comments of the BITS, Pilani on the observations made in the Committee's report. The Commission agreed in principle to provide assistance for development schemes in the Fifth Plan and desired that action in this regard may be taken after the Chairman has discussed this with the Director, BITS. It was further suggested that the question of providing maintenance grant to the Birla Institute of Science & Technology may be pursued with the Government of India.

The Commission desired that the Institute be advised to revise its constitution keeping in view the recommendations made by the Committee on "Governance of Universities" and the provisions made in IITs.

....

Item No.15 : To consider the proposal of the Banaras Hindu University for additional assistance during the Fifth Plan period.

The Commission noted that the new Vice-Chancellor would be taking over soon and desired that his views may be invited on the proposal of the BHU for assistance for additional staff and equipment and that the University may also indicate the steps which have been taken by it to implement the various suggestions made by the V Plan visiting committee in its report accepted by the Commission.

....

Item No.16 : To consider the report of the Committee appointed by the University Grants Commission on the proposal of the Jawaharlal Nehru University for additional funds for equipment during Fifth Plan period.

The Commission considered the report of the Committee appointed by the UGC on the proposals of the Jawaharlal Nehru University for additional funds for equipment during the Fifth Plan period and agreed to provide the following additional grants:

Life Sciences	-	Rs.10.00 lakhs
Environmental Sciences	-	Rs.10.00 lakhs
Common instrumentation facilities	-	Rs. 5.50 lakhs
Workshop	-	Rs. 3.50 lakhs
		<hr/>
		Rs.29.00 lakhs

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Item No.17 : To consider the immediate requirements of the Gujarat Vidyapith during the Fifth Plan.

The Commission considered the immediate requirements of the Gujarat Vidyapith during the Fifth Plan and desired that the Vidyapith be advised to expedite the work of the two committees constituted by it as early as possible so that the requirements of the Gujarat Vidyapith could be determined in the light of the recommendations of the committees. In the meanwhile, the Commission agreed that grants for the following may be made available to the Gujarat Vidyapith to meet its immediate requirements :

Recurring

- | | |
|--------------------------------|-----------------------------|
| 1. Appropriate Technology Cell | .. 1 Reader |
| 2. Junior Fellowships | .. Five (at any given time) |

Non-Recurring

- | | |
|------------------------------------|----------------|
| (i) Central library, micro-filming | .. Rs.1,00,000 |
| (ii) Appropriate Technology Cell | .. Rs.1,00,000 |
| (iii) Publications | .. Rs. 50,000 |
| (iv) Books and Journals | .. Rs.6,00,000 |

....

Item No.18 : To consider a proposal from the Gauhati University for the creation of an additional post of Reader in Mathematical Geography in the Department of Geography during the Fifth Plan period.

The Commission accepted the proposal of the Gauhati University for the creation of an additional post of Reader in Mathematical Geography in the Department of Geography.

....

Item No.19 : To consider the proposal of the Marathwada University for change in specialisation of the faculty positions sanctioned during the Fifth Plan period.

The Commission agreed that the post of Professor in Physics and the posts of Reader and Lecturers in Political Science approved in the Fifth Plan may be filled in according to the needs of the University.

....

Item No.20 : To consider a proposal from the Ranchi University for the change of specialisation of the post of Professor approved for the Department of Physics during the Fifth Plan period.

The Commission agreed that the post of professor in Theoretical Physics approved during the Fifth Plan period may be filled by the University to strengthen the theoretical aspects in any one of the areas in Physics in which experimental work is being done in the department.

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p.t.o.

Item No.21 : To consider the proposal of the Aligarh Muslim University for change of specialisation for various posts approved by the Commission during the Fifth Plan period.

The Commission could not agree with the proposal of the Aligarh Muslim University for change of specialisation for the teaching posts approved for the V Plan period. As regards creation of additional post in Geography, the University may approach the Commission after the posts already approved have been filled. The University may be further asked to indicate the phasing of the Reader's posts approved for the Women's college.

....

Item No.22 : To consider a proposal from the Berhampur University for starting the Department of Mass Communication during the Fifth Plan period.

It was resolved that the proposal of the Berhampur University for starting the Department of Mass Communication may be examined by a committee.

....

Item No.23 : To consider the proposal received from the Centre of Advanced Study in Geology, Panjab University for utilisation of grants during the Fifth Plan period.

Consideration of this was postponed to the next meeting.

....

Item No.24 : To consider a proposal from the S.N.D.T. Women's University, Bombay, for naming the Women's Polytechnic as Premlila Vithaldas Polytechnics.

The Commission accepted the proposal of the S.N-D.T. Women's University for naming the Women's Polytechnic as "Premlila Vithaldas Polytechnic".

....

Item No.25 : To consider the proposal of Sambhu Nath College, Labpur (Burdwan University) for naming the Laboratory Building as Bindulal Bijnan Bhawan.

The Commission could not accept the proposal of Sambhu Nath College, Labpur for naming the Laboratory Building as "Bindulal Bijnan Bhawan".

....

Item No.26 : To consider the feasibility Report prepared by the Bombay University on the Regional Instrumentation Centre.

Consideration of this was postponed to the next meeting.

....

Item No.27 : To receive a note regarding assessment of work of Junior Research Fellows for the purpose of enhancing the value of fellowship from Rs.400/- to Rs.500/- per month.

This was noted.

The Commission was of the view that proposal for enhancement of the value of Junior Research Fellowship from Rs.400/- to Rs.500/- at end of two years period may henceforth be referred to the Conveners of Panels in the subject concerned and action taken on their recommendations.

....

Item No.28 : To consider the recommendations of the Committee appointed by the University Grants Commission to consider a proposal to declare Manipal Educational Complex as a deemed to be a University under Section 3 of the University Grants Commission Act 1956.

The Commission considered the recommendations of the Committee appointed by the UGC to consider the proposal to declare Manipal Educational Complex as a deemed to be University under Section 3 of the UGC Act. The Commission resolved to recommend to the Central Government that the Manipal Educational Complex consisting of its colleges in medical and engineering sciences be declared as an institution deemed to be University under Section 3 of the UGC Act. The Commission was not in favour of even suggesting at this stage, that the other colleges, namely, education, law, etc., could be brought within the purview of the deemed to be university.

The Commission further desired that the financing and the administrative structure of the proposed Institute may be further examined in consultation with the Central Government who would have to provide funds for the maintenance of this institution. The Commission was also of the view that the reservation of seats for foreign students, as suggested by the committee should be gradually brought down.

....

Item No.29 : To consider certain establishment matters of the University Grants Commission.

- (i) The recommendations of the Selection Committee for Class-I post made at the meeting held on 21st December, 1976.

The Commission, keeping in view the Government of India orders for reservation, accepted the recommendations of the Selection Committee for Class-I post made at its meeting held on 21st December, 1976 and approved the following candidates in order of merit for appointment to the post of Education Officer (Examination Reform) in the office of the University Grants Commission against 'recruitment quota' :

1. Shri Gour Gopal Dandapat (Direct - Temporary appointment)
2. Shri K.C. Gulati
3. Dr. Venkateswarulu Panda

(ii) Appointment of Consultants

The three posts of the Consultants may be filled in the following fields :

- (a) Perspective Planning.
- (b) Restructuring of courses including Rural Development.
- (c) Development of colleges.

....

Item No.30 : To note the date and place for the next meeting of the Commission.

It was decided that the next meeting of the Commission be held at New Delhi on February 21, 1977.

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p.t.o.

Addl. Item No.31 : To consider reference received from the Government of India, Ministry of Education and Social Welfare regarding the minimum qualifications laid down for recruitment to the post of Lecturer consequent upon the revision of scales of pay of university and college teachers.

Consideration of this was postponed to the next meeting.

R.K. Chhabra
Secretary

Satish Chandra
Chairman

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Appendix III to Item No. 6

Ceilings of assistance to colleges
under the Students Aid Fund Scheme
from 1-7-1977

<u>Enrolment</u>	<u>Amount in Rupees</u>
250 or below	1,500
Between 251-500	2,000
Between 501-750	3,500
Between 751-1000	4,500
Between 1001-1250	5,500
Between 1251-1500	6,500
Between 1501-2000	7,500
Between 2001-2500	8,500
2501 and above	10,000

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 21st February, 1977

Item No.2(a) To approve the action taken on certain matters.

--:-

(1) Proposal of the affiliated colleges accepted under
Rs.5.00 lakhs scheme.

--:-

No.	Name of the College	Purpose	Estimated cost	UGC Share	Date of approval
2	3	4	5	6	
	Shri Sat Sai Arts & Science College for Women, Anantapur	Staff Quarters	2,42,880	1,66,667	8-12-1976
		Workshop Shed	67,230		
		Workshop Equipment	32,770	32,770	
		Lab. Equipment	40,000	30,000	
		Books & Journals	10,000	7,500	
	Adoni Arts & Science College, Adoni	Lab. Equipment	1,00,000	75,000	15-10-1976
	St. Thomas College, Ranni	Lab. Equipment	80,517	45,000	9-12-1976
		Books & Journals	70,562.77	36,000	
		Lib. Building (Services only)	47,500	23,750	
	St. Teresa's College, Ernakulam	Books & Journals	1,00,000	75,000	17-9-1976
		Lab. Equipment	1,50,000	1,12,500	
	University College, Trivandrum	Staff Qrs. (Principals Qrs.)	70,400	35,200	5-11-1976
		Lab. Equipment	1,00,000	75,000	
		Books & Journals	80,000	60,000	

Contd.....2..

1	2	3	4	5	6		
6.	B.R.V.R.R. Women's College, Narayaguda, Hyderabad	Lib. Building	64,200	32,100	|		
		Class rooms	1,70,300	85,150			
		Workshop Shed	10,000	10,000			
		Animal House	20,000	20,000			
		Green House	20,000	20,000			12-10-1971
		Lab. Equipment	3,20,100	75,000			
		Books & Journals	2,00,000	54,000			
7.	S.A.F. Arts & Science College, Vikarabad	Books & Journals	64,600	48,450	|	25-12-1971	
		Lab. Equipment	35,400	26,550			
8.	Vivok Vardhini College, Hyderabad	Books & Journals	60,000	45,000	|	18-8-1976	
		Lab. Equipment	1,00,000	75,000			
		Teaching accommodation	3,27,600	1,63,800			
9.	N.M.A.S. College, Jogipet	Lab. Equipment	1,00,000	75,000	|	5-11-1976	
10.	Andhra Loyala College, Vijayawada	Furniture for Lecture Theatre	16,804	8,402	|	25-12-1971	
		Furniture fittings for Labs.	33,696	16,848			
		Central Stair cases	70,000	35,000			
		Workshop shed	82,000	30,000			
		Tools & Equipment	70,000	70,000			
11.	Kakraparti Bhavenarayana College, Vijayawada	Lab. Building	3,70,000	1,46,667	|	21-10-1971	
		Books & Journals	64,000	48,000			
		Lab. Equipment	1,00,000	75,000			
12.	Christ College, Irinjalkuda	Animal House	41,085	30,000		26-12-1971	
		Workshop Shed	24,500	12,250			
		Animal House Eqpt.	5,500	5,500			

1	2	3	4	5	6
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Christ College (contd.....)

		Workshop Equipment	40,000	40,000	
		Lab. Equipment	60,000	45,000	26-12-1976
		Books & Journals	60,000	45,000	
13.	Karnatak Science College, Dharwar	Books & Journals	76,000	57,000	16-1-1977
		Equipment	2,24,000	1,68,000	16-1-1977
14.	Kalpataru College, Tirplur	Botany Block	3,25,000	1,66,667	2-12-1976
15.	National College, Jayanagar, Bangalore	Books	50,000	35,500	23-12-1976
		Equipment	1,00,000	75,000	23-12-1976
16.	A.V.K. College for Women, Hassan	Laboratory Bldg.	3,00,000	1,66,667	23-11-1976
		Lab. Equipment	1,60,000	1,20,000	23-11-1976

Madurai University

17.	Sourashtra College, Madurai	Const. Lab. Bldg.	4,42,681	1,66,667	29-1-1977
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Madras University

18.	Shri Vasavi College, Erode	Purchase of Lab. Equipment	1,00,000	75,000	20-1-1977
		Books & Journals	16,000	12,000	
		Botanical Garden with Equipment	26,000	26,000	
19.	National College, Tiruchirapalli	Purchase of Lab. Equipment	2,00,000	1,50,000	18-1-1977
20.	Govt. Arts College, Dharmapuri	Lib. Books	25,000	18,750	3-2-1977

B.N. Chakravarty University

21.	Guru Nanak Khalsa College, Yamanagar	Books & Journals	60,000	45,000	13-1-1977
		Equipment	16,000	12,000	13-1-1977
22.	Ghaju Ram Memorial Jat College, Hissar	Non-Residence Students Centre	35,000	35,000	18-1-1977

1	2	3	4	5	6
<u>B.N. Chakravarty University (contd.....)</u>					
23.	Guru Nanak Girls College, Santpura	Books & Journals	60,000	45,000	16-1-1977
		Home Sc. & Music Equipment	30,000	22,500	16-1-1977
		Women's Hostel for 30 students	2,31,600	1,67,000	16-1-1977
24.	Govt. College, Narnaul	Addl. teaching accommodation	2,40,000	1,20,200	18-1-1977
<u>Guru Nanak Dev University</u>					
25.	Sikh National College, Banga	Books & Journals	60,000	45,000	16-10-1977
		Construction of Animal House	21,027	21,027	16-10-1977
		Equipment-Animal House	2,500	2,500	16-10-1977
26.	S.L. Bawa D.A.V. College for Boys, Batala	Books & journals	52,000	39,000	11-11-1977
		Equipment	40,000	30,000	11-11-1977
27.	R.R. Bawa D.A.V. College for Girls, Batala	Books & Journals	40,000	30,000	30-11-1977
		Equipment	20,000	15,000	30-11-1977
		Construction of 3 class rooms	64,000	43,000	10-1-1977
		Principal's resid.	73,000	36,000	10-1-1977
<u>Himachal Pradesh University</u>					
28.	Govt. College, Mandi	Construction of Men's Hostel	3,34,000	1,67,000	22-11-1977
		Books & Journals	80,000	60,000	22-11-1977
		Equipment	1,00,000	75,000	22-11-1977
<u>Lucknow University</u>					
29.	Nari Shiksha Niketan Degree College, Lucknow	Library Bldg.	1,23,667	61,838	22-11-1977
		Science Equipment	60,000	45,000	22-11-1977
30.	Shia College, Lucknow	Lab. Equipment	1,20,000	90,000	5-12-1977
		Books & Journals	80,000	60,000	5-12-1977

contd.....5..

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Lucknow University (contd.....)

31.	Mahila Vidyalaya Degree College, Lucknow	Books & Journals	72,000	54,000	24-1-1977
		Lab. Equipment	1,00,000	75,000	24-1-1977
32.	Lucknow Christian College, Lucknow	Books & Journals	60,000	45,000	27-1-1977
		Equipment	80,000	60,000	27-1-1977
		Construction of 4 Staff H.Q.	1,40,000	70,000	27-1-1977

Jammu University

33.	Govt. Gandhi Memorial Science College, Jammu	Books & Journals	60,000	45,000	13-1-1977
		Equipment	1,00,000	75,000	13-1-1977
		Extension of Lib. Building	1,14,000	76,000	13-1-1977
34.	Govt. M.A.M. College, Jammu	Books & Journals	40,000	30,000	13-1-1977
		Equipment	32,000	24,000	13-1-1977

Punjab University

35.	D.A.V. College, Bhatinda	Science Equipment	48,000	36,000	8-11-1976
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Punjab University

36.	D.A.V. College, Chandigarh	Books & Journals	40,000	30,000	16-10-1976
		Lab. Equipment	97,250	72,937	16-10-1976
		Men's Hostel for 81 students	3,90,317	1,61,267	16-10-1976
37.	Swami Prananand Mahavidyalaya, Mukerian	Books & Journals	80,000	60,000	10-11-1976
		Extension of Library Building	3,77,300	1,67,000	22-11-1976
38.	D.A.V. College, Hoshiarpur	Books & Journals	80,000	60,000	13-1-1977
		Lab. Equipment	40,000	30,000	13-1-1977
39.	D.M. College, Moga	Books & Journals	72,000	54,000	12-1-1977
		Equipment	60,000	45,000	12-1-1977

contd.....6..

1	2	3	4	5
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Kashmir University

40.	Islamia College of Science & Commerce, Srinagar	Books & Journals	60,000	45,000
		Equipment	60,000	45,000
41.	Amar Singh College, Srinagar	Books & Journals	60,000	45,000
		Equipment	60,000	45,000
42.	Gandhi Memorial College, Srinagar	Books & Journals	60,000	45,000
		Equipment	60,000	45,000
43.	Govt. College, Sopore	Books & Journals	60,000	45,000
		Equipment	60,000	45,000
		Extension of Library	3,38,000	1,67,000
44.	Govt. Degree College, Anantnag	Non-Residence Students Centre	1,54,000	70,000
		Books & Journals	80,000	60,000
		Equipment	1,00,000	75,000

Awadh University

45.	Baba Baruwa Das Degree College, Paruiya Ashrafi (Faizabad)	Books & Journals	40,000	30,000
		Equipment	12,000	8,000

Gorakhpur University

46.	Ratan Sen Degree College, Bansi, Basti	Books & Journals	60,000	45,000
47.	Buddha Degree College, Kushinagar Deoria	Books & Journals	80,000	60,000
		Equipment	1,00,000	75,000
48.	Degree College, Ghazipur	Books & Journals	1,00,000	75,000
		Equipment	68,000	51,000
49.	Budha Vidyapeeth Mahavidyalaya, Naurgarh, Basti	Books & Journals	60,000	45,000
		Equipment for Geography Centre of Library Building	12,000	9,000

Proposal accepted in principle and detailed estimates called.

1	2	3	4	5	6
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Avadh University (contd.....)

50.	D.C.S.K. Degree College, Mamath, Dhanjan	Construction of 2 class rooms (35x25)		Agreed in principle	
		Construction of ² Lab. Rooms (40x25)		Agreed in principle	23-1-1977
		Books & Journals	60,000	45,000	
		Equipment for Psychology & Geography	24,000	18,000	
51.	Sri Durgaji Degree College, Chandesar, Mangarh	Construction of 4 class rooms		Accepted in principle	27-1-1977

Meerut University

52.	Ch. Chhotu Ram Degree College, Muzaffarnagar	Books & Journals	32,000	24,000	31-12-1976
		Equipment	32,000	24,000	
53.	Meerut College, Meerut	Books & Journals	1,00,000	75,000	15-1-1977
		Equipment	1,00,000	75,000	
54.	D.M. College, Meerut	Books & Journals	60,000	45,000	15-1-1977
		Equipment	60,000	45,000	
55.	R.K. College, Sherli, Muzaffarnagar	Books & Journals	40,000	30,000	16-1-1977
		Equipment	60,000	45,000	
56.	S.S.V. College, Hapur	Books & Journals	1,00,000	75,000	16-1-1977
		Equipment	52,000	39,000	
57.	Lajpat Rai College, Sahibabad, Ghaziabad	Books & Journals	40,000	30,000	27-1-1977
		Equipment	24,000	18,000	
58.	Amar Singh College, Lucknow (Bulandshahr)	Books & Journals	40,000	30,000	29-1-1977
		Equipment for Geography	40,000	30,000	
		Construction of Library Building	1.83 lacs (Accepted in Principle)		

contd.....3..

1	2	3	4	5
<u>Gauhati University</u>				
59.	B.H. Howly	Books & Journals	40,000	30,000
		Women's Hostel	2,64,775	1,98,581
60.	D.M. College, Imphal	Lib. Books & Journals	40,000	30,000
		Lab. Equipment	1,86,000	1,39,500
61.	Arya Vidyapeeth College, Gauhati	Books & Journals	1,00,000	75,000
		Lab. Equipment	1,60,000	1,20,000
62.	Bajali College, Pathsala	Lab. Equipment	1,60,000	1,20,000
		Lab. Building	2,98,228.50	1,86,750
			(Enhanced from Rs.1,30,750 to Rs.1,86,750)	

L.N. Mithila University

63.	Seharsa College, Seharsa	Lab. Building	2,48,692	1,65,795
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Magadh University

64.	J. gjiwan College, Gaya	Lab. Equipment	60,000	45,000
		Books & Journals	30,000	22,500

Ranchi University

65.	St. Columba's College, Hazari- bagh	Library Building (including furniture)	2,74,890	1,83,260
66.	Janshedpur Women's College, Janshedpur	Teaching Accommodation	5,45,627	2,09,000

Sambalpur University

67.**	Sonepur College, Sonepur	Books & Journals	1,00,000	75,000
		Lab. Equipment	65,000	48,750

** (As a special case in relaxation of eligibility condition)

(2) Proposal of Teachers Training College approved under Rs.1.5 lakh schene.

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B.N. Chakravarty University

1.	D.A.V. College of Education for Women, Karnal	Books & Journals	16,000	12,000
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1	2	3	4	5	6
<u>Guru Nanak Dev University</u>					
2.	Ram Garhia College of Education, Satnampura	Books & Journals	10,000	7,500	5-12-1976
3.	Govt. College of Education, Jullundur	Books & Journals	8,000	6,000	2-12-1976
4.	Dayanand Anarnath College of Education, Nawan Shahr Doaba, Jullundur	Books & Journals Equipment	32,000 16,000	24,000 12,000	29-12-1976
5.	Khalsa College of Education, Amritsar	Books & Journals	40,000	30,000	15-12-1976
<u>Panjab University</u>					
6.	Dev Sanaj College of Education for Women, Ferozepur	Books & Journals	24,000	18,000	16-1-1977
7.	G.H.G. Khalsa College of Education, Gurdwar Bahadur	Books & Journals	12,000	9,000	16-1-1977
8.	G.H.G. Harprakash College of Education for Women, Sidhwan Khurd, Ludhiana	Books & Journals	10,000	7,500	12-1-1977
9.	D.M. College of Education, Moga	Books & Journals	20,000	15,000	16-1-1977
10.	D.A.V. College of Education, Hoshiarpur	Books & Journals	16,000	12,000	1-2-1977
<u>Karnatak University</u>					
11.	University College of Education, Dharwar	Purchase of Books Audiovisual Aid	50,000 7,500	37,500 7,500	17-1-1977

(3) Assistance to teachers working in Universities and colleges for attending the Winter College on the Atomic and Molecular Physics conducted by the International Centre for Theoretical Physics, Trieste during January-March, 1977.

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The International Centre for Theoretical Physics, Trieste (Italy) conducts various advance level courses and invites scholars

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from different countries of the world for participating in these courses. The information regarding such courses is sent by the International Centre for Theoretical Physics, Trieste, to the University Grants Commission and the Commission sends such information to the Universities so that they may send applications/suitable candidates direct to the ICTP, Trieste. The ICTP Trieste, informed the Commission that it will be conducting a Winter College on Atomic and Molecular Physics, during January to March, 1977. The universities were accordingly requested to send applications of suitable candidates direct to the ICTP, Trieste. The ICTP Trieste, selected some candidates and agreed to provide daily living allowance to cover maintenance costs of these candidates while Trieste and requested the UGC to provide assistance in respect of these candidates for air-travel for attending the above course. In consultation with the Convenor, Physics Panel, the Commission agreed to provide assistance towards one-way travel cost (i.e. 50% of the total fare by economy class) in respect of the following candidates :-

1. Dr. Man Mohan, I.M. College, Delhi University
2. Dr. K.C. Mathur, Roorkee University
3. Dr. S.N. Rai, Banaras Hindu University
4. Dr. C.K. Subramanian, I.I.Sc., Bangalore

Since Dr. Subramanian was able to procure assistance from other sources, the ICTP suggested that the funds earmarked for him be diverted to someone earlier suggested by them for living allowance and accordingly the UGC agreed to support Dr. S.N. Thakur of B.H.U. and this was duly informed to the ICTP and the candidate/University. Further, the UGC has also agreed to the participation of Dr. Udit Narain of Meerut College and Dr. S.P. Tiwari of Sri Venkateswara College, Delhi University (Gauhati Campus), as the ICTP had agreed to provide return air-fare to them for attending the above course.

The matter is reported to the Commission.

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- (4) K.N. Govt. College, Gyanpur, Varanasi (Gorakhpur University) - Revival of sanction for construction of Hostel and warden's quarters approved under Fourth Plan undergraduate development scheme.

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K.N. Govt. College, Gyanpur, Varanasi (Gorakhpur University) could not implement the scheme of construction of a Hostel for 114 students and two warden's quarters approved at a cost of Rs. 5,28,775/- with UGC's share of Rs. 2,64,387/- or 50% of approved expenditure which is less vide letter No.7-5/68(C.II) dated 27-12-1969 under Fourth Plan undergraduate development scheme due to non-receipt of State Govt. approval/share. As per conditions of grant, the sanction lapsed due to non-implementation of scheme within a year of sanction. In view of circumstances now stated by the college and also keeping in view the

fact that the College could not avail of any assistance out of Rs. 3.00 lakh provision for development of undergraduate education during Fourth Plan period, the above sanction has been revised, as a special case, subject to the condition that UGC's share would be limited to Rs. 2,07,453/- or 50% of the approved actual expenditure whichever is less, and that the amount paid for this project would be out of the Fifth Plan funds available to the college under development of undergraduate education (Rs. 5.00 lakh scheme) vide orders dated 17-1-1977.

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- (5) Grants approved to Madurai University for purchase of computer time for research purposes.

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The Commission at its meeting held on 18th October, 1976 vide Item No. 10 accepted the recommendations of the Standing Committee on the computer development in the University and agreed that the proposals from the universities where there is sufficient evidence of computer usages and computer capability should be given due consideration. In such cases grants may be provided either for purchase of a computer or for purchase of computer time from some other institutions. The Madurai University submitted a proposal for purchase of computer which was examined and it was felt that the immediate needs of the university could be met by providing annual grants for purchase of computer time from other institutions. An annual grant of Rs. 25,000 has been approved to Madurai University for the duration of Fifth Plan period for purchase of computer time required for research purposes vide orders dated 5th January, 1977.

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- (6) University Leadership Project in Mathematics, Panjab University, Chandigarh under College Science Improvement Programme - approval of grant for follow-up activities on Inter-University arrangement.

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The Commission at its meeting held on 10th February, 1975 (item No. 19) while considering the recommendations made by the Standing Committee for COSIP, inter-alia agreed that the ULP Departments which have completed that first phase of their activities may be encouraged and assisted financially over the next two years to take up suitable follow-up activities.

The proposal of the Department of Mathematics, Panjab University, Chandigarh, for taking up an inter-university coordinate COSIP-ULP in Mathematics jointly with Universities of Panjabi and Guru Nanak Dev during the next three years w.e.f. 1st April, 1977, has been considered and a grant of Rs. 7.10 Lakhs has been approved (vide orders dated 16-1-1977 No. F. 20-130/70(SR-I).

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- (7) College Science Improvement Programme -
Approval of grants for follow up
activities to colleges.

The approval of grants to 27 colleges for undertaking follow-up activities have already been reported to the Commission at its meeting held in June, 1976.

Proposal from the following colleges have since been examined and grants approved for undertaking the follow-up activities.

Name of College	Affiliated to University	Grant approved	Date of approval
1. D. A. V. College, Muzaffarnagar	Meerut	Rs. 2,00,000/- (For two years)	2.7.1976
2. Christ Church College, Kanpur	Kanpur	Rs. 70,000/- (For one year)	23.1.1977

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- (8) Indian School of Mines, Dhanbad -
Construction of Storage Block

The Director, Indian School of Mines, Dhanbad in his letter dated 11th January, 1977 informed that the School is facing serious difficulty for proper storage facilities for camping equipment, furniture and other bulky stores as at present the School has only a Nissan Hut built during World War II which has become totally unserviceable. The School, therefore, sent a proposal for the construction of a Storage Block at an estimated cost of Rs. 4,30,176/-. The proposal has been accepted (vide letter No. F.16-23/76(T) dated 5.2.1977) on the condition that this expenditure would be met from within the overall allocation of Rs. 377 lakhs approved for the Indian School of Mines, Dhanbad for the Fifth Plan period.

- (9) Department of Mining, Banaras Hindu University - Assistance from Department of Coal, Ministry of Energy, Government of India.

In March, 1976, the Department of Mining, Institute of Technology, Banaras Hindu University sent a project report on the development of the Department to the Department of Coal, Ministry of Energy, Government of India. The proposal involved a total outlay of Rs.45,02,500/-. Against this, the Ministry of Energy, Department of Coal have agreed to provide an amount of Rs.20 lakhs during 1976-77 for the development of the Department of Mining Engineering, Institute of Technology, Banaras Hindu University. The Ministry has also released this amount to the Commission for disbursement to the University according to the usual procedure. The University has been informed about it and also requested to intimate the expenditure likely to be incurred during the next 3-4 months.

- (10) Banaras Hindu University - Acceptance of Research Scheme on Reproduction Biology under i) Dr. J.P. Thapliyal and ii) Dr. T. Sharma, Department of Zoology, under Fourth Plan Development Scheme.

The UGC sanctioned two Research Projects in Zoology Department, BHU, viz. i) Reproduction Biology by Dr. J.P. Thapliyal and ii) Reproduction Biology by Dr. T. Sharma, Fourth Plan Development Schemes. The UGC Visiting Committee which assured the development proposals of the Banaras Hindu University recommended that "these research projects are under way and should be allowed to continue on permanent basis. Expenditure on these should be merged in the Block Grant and the technical/research staff absorbed in the department if justified by merit" It has been decided that the assistance for these research projects may be provided as part of the Plan projects during the Fifth Plan period ending 1978-79 vide Vice-Chairman's orders dated 5.1.1977.

p.t.c.

(11) Selection of Colleges under COSIP.

Based on the experience of the implementation of College Science Improvement Programme since 1971-72, the Commission initiated during the V Plan, a similar programme for improvement of humanities and social science instruction in colleges (COHSIP). Under the scheme, a grant upto a maximum of Rs.3 lakhs may be available to the selected colleges for a period of 3 years for strengthening teaching, initiating tutorial and seminar work, preparing reading materials and bibliographical notes and for introducing internal assessment. The colleges will supplement their teaching with the help of additional staff appointed for the purpose, postgraduate and research students on the rolls of the colleges and guest lecturers from other colleges or the universities. Selection of colleges for participation in this programme is determined, inter-alia, on the basis of their excellence in (i) the quality of their staff, (ii) student teacher ratio, (iii) examination results, (iv) strength of their libraries and (v) the quality of their proposals.

On the basis of the recommendations of the Committee set up by the Commission to recommend colleges for assistance under the COHSIP programme the Commission accepted the following criteria for grading colleges under the above programme:

<u>(1) Examination Results</u>	<u>Points</u>
100 to 90%	5
89 to 75%	4
74 to 60%	3
59 to 50%	2
Below 50%	1

(2) Staff

(a) Ph.Ds. Percentage of the staff (Cumulative for all departments).

Between 33% and above	5
" 33% and 25%	4
" 25% and 20%	3
" 20% and 10%	2
" 10% and Nil	1
	0

(b) First Class M.As.: Proportion of the total:
(Cumulative for all the department).

Between	66% and above	5
	60% and 50%	4
	50% and 40%	3
	40% and 30%	2
	30% and 25%	1
	Below 25%	0

(3) Staff-Student Ratio:

It was felt that the staff-student ratio in a college is the key to the success of any qualitative improvement programmes in an institution and more so in the case of the COHSIP. In view of this the weightage given to the staff-student ratio is double that of the weightage given to their items:

Between	1.20 and better	10
	1.20 and 1.30	8
	1.30 and 1.40	6
	1.40 and 1.60	4
	1.60 and 1.80	2
	1.80 and below	0

(4) Books and Journals:

A. Books

	<u>No. of Books</u>	<u>Points</u>
Between	50,000 and above	5
	40,000 and 50,000	4
	25,000 and 40,000	3
	10,000 and 25,000	2
	5,000 and 10,000	1

B. Journals

	<u>No. of journals</u>	<u>Points</u>
	500 to 400	5
	400 to 300	4
	300 to 200	3
	200 to 100	2
	100 to 50	1

Books and journals relating to all departments in the humanities and social sciences in the library of the colleges have been pooled together for the purpose of calculating the rating in respect of these two items.

The colleges which have scored 15 or more points in the grading are selected for participation in the COHSIP.

While grading, the following criteria were adopted for selection of non-COSIP colleges for participation in COHSIP:

1. The College should not have scored 'zero' for the following items:
 - (a) Examination Results
 - (b) Student-Teacher Ratio
 - (c) Books and Journals
2. If a college scores 'zero' for not having revised number of Ph.D. or M.A. 1st class on its teaching staff, it should not be considered as a dis-qualification for selection.
3. Colleges which have a higher grade point for journals than for books may be considered after verification of the data supplied by them.
4. On the basis of the above criteria 19 colleges which had scored 15 or more points in the grading were selected for participation in the COHSIP. This was reported to the Commission at its meeting held on July 14-15, 1975.

The criteria laid down above have since been reviewed and it has been decided that even if the colleges scored 'zero' in journals but have got the minimum grade point of 15, they may also be considered for participation in the COHSIP. 'Zero' rating does not mean that they have no journals; they have some but less than 50. The criteria has accordingly been revised and based on this, proposals received from 68 colleges duly recommended by the Vice-Chancellors of the Universities concerned for participation in COHSIP have been graded and the following colleges have since been selected for participation in the COHSIP.

S.No.	Name of the State	Name of the University	Name of the College.
1.	Andhra Pradesh	Osmania	1. Nagarjuna Govt. Arts & Science College, Nalgputa.
			2. St. Francis College for Women, Secunderabad.
			3. Vivek Vardhini College, Hyderabad.

1	2	4
2. Bihar	Bhagalpur	4. Marwari College, Bhagalpur.
		5. Sahibganj College, Sahibganj.
3. Gujarat	Gujarat	6. L.D. Arts College, Ahmedabad.
		7. Sri H.K. Arts College, Ahmedabad.
		8. Shri S.K. Shah and Shri Krishna OM Arts College, Modasa.
		9. Sheth P.T. Arts & Science College, Godhra.
	Saurashtra	10. M.V. Mahila Arts & Science College, Rajkot.
		11. Kamani Science & Pratap Rai Arts College, Amreli.
	South Gujarat	12. M.T.B. Arts College, Surat.
4. Himachal Pradesh	Himachal Pradesh	13. Govt. College, Mandi
5. Haryana	B.N.C. Chakravarty	14. S.D. College, Ambala Canct.
		15. R.K.S.D. College, Kainthal
		16. Kurukshetra Evening College, Kurukshetra.
		17. F.C. College for Women, Hissar.
		18. Ahiy College, Rewari
		19. Govt. College, Gurgaon
6. Karnataka	Karnatak	20. Karnatak Arts College, Dharwar
	Mysore	21. Maharaja's College, Mysore.

1	2	3	4
7. Madhya Pradesh	Saugar		22. Govt. Degree College, Narsimhapur.
8. Maharashtra	Bombay		23. J.S.M. College, Alibagh, Distt. Kolaba
	Nagpur		24. N.M.D. College of Arts & Commerce, Gondia.
9. Orissa	Utkal		25. B.J.B. College, Bhubaneswar.
10. Panjab	Guru Nanak Dev		26. Sikh National College, Qadian
	Panjab		27. D.A.V. College, Chandigarh.
			28. D.A.V. College, Abohar
			29. Govt. College, Ludhiana
11. Rajasthan	Rajasthan		30. Kanodia Mahila Mahavidyalaya, Jaipur.
12. Tamil Nadu	Madras		31. Pachaiyappa's College, Madras
			32. Govt. Arts College, Coimbatore
			33. Madras Christian College, Tambaram.
			34. Stella Maris College, Madras.
	Madurai		35. S.P. College for Women, Courtallam.
13. Uttar Pradesh	Kumaon		36. Govt. P.G. College, Almora.

The Commission has selected so far 106 colleges for participation in COHSIP. Of these 51 colleges are already participating in COSIP.

(12) Development of Museums and Provision of Audio-Visual Aids in Universities - Allocation of funds for -

The Commission has so far selected 22 universities for assistance to establish and/or develop museums and

for obtaining audio-visual aids. Subsequently, the grant of Rs.20,000/- sanctioned to the Shivaji University for the development of Museum was treated as cancelled, as no museum exists in the Department of History of the University.

The Calcutta University had earlier been sanctioned a grant of Rs.20,000 for the development of museum in the department of Archaeology. A grant of Rs.15,000/- has now been sanctioned to the University for its department of Archaeology for Audio-Visual Aids. Similarly, the Mysore University had earlier been sanctioned a grant of Rs.15,000 for provision of audio-visual aids for its department of Ancient History and Archaeology. A grant of Rs.20,000 has since been sanctioned to the University for its department of Ancient History and Archaeology for development of museum.

- (13) Award of Scholarship for P.G. Studies in Sanskrit/Pali/Prakrit/Ardhmagadi and Arabic/Persian.

On the recommendations of the Selection Committee 22 scholarships for P.G. Studies in Sanskrit/Pali/Prakrit/Ardhmagadi and 21 scholarships for P.G. Studies in Arabic/Persian of the value of Rs.250/- p.m. have been awarded during 1976-77. The scholarships are tenable for a maximum period of 2 years, 5 candidates in Sanskrit/Pali/Prakrit/Ardhmagadi and 4 in Arabic/Persian have been placed in the waiting list. The details of the candidates selected and those in the waiting list are in Annexure.

- (14) Procedure regarding release of non-recurring grants to universities for the purchase of Library books and journals and scientific equipment during the Fifth Plan period.

The University Grants Commission provides financial assistance to universities for various schemes for development purposes for plan periods on the recommendations of the Visiting Committees which inter-alia includes grant for purchase of library books and journals and scientific equipment. The grants, at present for these purposes are released on the basis of the progress reports

received from the universities indicating the expenditure actually incurred and likely to be incurred in the next half year.

The matter relating to release of grants to universities for the purchase of library books and equipment was considered at the Conference of Vice-Chancellors of southern universities held at Coimbatore in January, 1977. The Vice-Chancellors suggested that substantial grants may be released in advance to universities to enable them to meet the bills on time from the suppliers. The universities also feel reluctant to place orders for books and equipment with the firms unless they have substantial funds available with them. The Vice-Chancellors, therefore, suggested that substantial amount may be released to universities towards the purchase of books and equipment and universities be asked to submit a statement of expenditure at the end of each financial year instead of sending periodical progress reports to the Commission for release of grants.

Keeping in view the needs and the timely utilisation of the grants by the universities towards the purchase of books and equipments has agreed to keep universities in funds as required by the universities at the beginning of the financial year. The universities may send the progress reports at the end of each financial year. This has been implemented with immediate effect.

- (15) Procedure regarding release of recurring grants to universities for meeting expenditure on teaching/technical posts during the Fifth Plan period.

The University Grants Commission provides financial assistance to universities for various schemes for development purposes on the recommendations of the Visiting Committees which inter-alia includes assistance for the appointment of teaching/technical staff. According to the present practice, the grants for meeting the expenditure on the appointment of teaching/technical staff is released in two instalments i.e. in April and October each year on the basis of statement of expenditure received from the universities.

This matter was considered by the Conference of Vice-Chancellors of Southern Universities held at Coimbatore in January, 1977. The Vice-Chancellors suggested that the Commission should keep the universities in funds for meeting

the salaries of teachers appointed against the posts approved by the Commission for the Fifth Plan period and for this purpose, the grants for one year may be paid to universities in advance. Keeping in view the difficulties experienced by the universities in this respect, has agreed to provide grants in advance for one year to the universities for meeting the salaries of teaching/technical staff sanctioned to universities on the recommendations of the Fifth Plan Visiting Committees.

This practice would be followed from the current financial year i.e. 1976-77.

- (16) Appointment of Shri Vijay Kumar Mehta and Shri Tushar Basak as Lower Division Clerks/Typists in the office of the University Grants Commission in relaxation of the prescribed age limit.

Shri Vijay Kumar Mehta and Shri Tushar Basak who had qualified the Clerks' Grade Examination, 1975 conducted by the Institute of Secretariat Training & Management, Cabinet Secretariat, Department of Personnel & Administrative Reforms (now known as the Subordinate Services Commission) and who were sponsored to the University Grants Commission for appointment as Lower Division Clerks/Typists, have been appointed as such in relaxation of prescribed age limit as per Cadre and Recruitment Rules for the post of Lower Division Clerk vide orders dated the 30th December, 1976 as they were overage at the time of appointment but were otherwise within age limit as per norms of the Subordinate Services Commission when the examination was conducted in the year 1975 and as 1st January, 1975 was the crucial date to determine the age limit between 18-25 years of eligible candidates for appearing in the examination 1975 as intimated by the Subordinate Services Commission.

- (17) Extension of the tenure of the temporary posts created for strengthening the Secretariat of the University Grants Commission.

Pending receipt of the report of the Staff Inspection Unit, the tenure of the following temporary posts created for strengthening the Secretariat of the University Grants Commission has been extended for a further period of one year with effect from the forenoon of the dates noted against each vide orders dated the 23rd January, 1977 as the need

for which these posts were created continues:

<u>Sl.No.</u>	<u>Name of the post</u>	<u>Number of post(s)</u>	<u>Date from which extended</u>
1.	Deputy Secretary	1	14.4.1977
2.	Education Officer	2	(i) 24.2.1977 (ii) 29.4.1977
3.	Assistant Secretary	1	24.2.1977
4.	Assistant Editor	1	4.11.1977
5.	Production Assistant	1	22.3.1977

- (18) Extension of the tenure of the temporary posts sanctioned for the work relating to the Third National Survey (Higher Education Sector) in the office of the University Grants Commission.

As the work relating to the Third National Survey (Higher Education Sector) undertaken by the Commission continued, the tenure of the following temporary posts created for the Survey work in the office of the University Grants Commission which was to expire on the 31st January, 1977, has been further extended upto the 28th February, 1977 (vide order dated the 4th February, 1977) as the need for the same was considered necessary:-

<u>Sl.No.</u>	<u>Name of the posts</u>	<u>No. of posts</u>
1.	Chief Coordinator	1
2.	Coordinator	2
3.	Senior Statistical Assistant	1
4.	Peon	1

2. The following temporary posts created for the above work which were no longer required have been abolished (vide orders dated the 4th February, 1977) with effect from the 31st January, 1977 (afternoon):-

<u>Sl.No.</u>	<u>Name of the posts</u>	<u>No. of posts</u>
1.	Senior Statistical Assistant	1
2.	Statistical Assistant	1

UNIVERSITY GRANTS COMMISSION

LIST OF CANDIDATES SELECTED FOR AWARD OF SCHOLARSHIPS
FOR P.G. STUDIES IN SANSKRIT/PALI/PRAKRIT/ARDHMAGADI
AND ARABIC/PERSIAN FOR 1976-77.

S.No.	Name of Scholar Recommended	University/Institute of Study
1	2	3

SUBJECT... PRAKRIT

1.	Shri Bishwanath Chaudhary	Research Institute Prakrit Jainology & Ahimsa, Vaishali
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SUBJECT... SANSKRIT

2.	Sh. Thakur Sain Negi	S.S. University, Varanasi
3.	Sh. Brahmadeo Mishra	KSD Sanskrit University
4.	Sh. Kamlesh Jha	S.S. UNIVERSITY
5.	Km. Vimla Devi Mehra	Jammu
6.	Sh. Shiva Kumar Mishra	Bihar
7.	Sh. Prabhat Kumar Thakur	Bhagalpur
8.	Km. Kiran Jain	Vikram
9.	Km. Urmil Dixit	KRG College, Gwalior
10.	Km. Dholakia Pratima Manharrai	M.V. Mahila College, Rajkot
11.	Km. Rohini Vyankatesh Kulkarni	Shivaji University
2.	Sh. Shiva Kant	Kiriori Mal College, Delhi.
3.	Miss Vibha Rani Mishra	Banaras
4.	Sh. Vishwanath Sharma	D.S. College, Aligarh
5.	Km. Adkoli Mahesh Madhukeshwar	Karnatak
16.	Km. Ranjani Sridharan	Madras
17.	Shri Krishna Sharma Kaushik	Punjabi
18.	Miss Sulochana Gupta	BNC, Kurukshetra
19.	Miss Krishna Khoond	HP., Simla
20.	Shri Shreenivasan Ayyar	Udaipur
21.	Km. Rajyashree Bhattacharya	Calcutta
22.	Km. Malinee Goswami	Gauhati

SUBJECT... ARABIC

23.	Sh. Mohd. Nasim Muzahari	Aligarh
24.	Sh. Abrar Ahmad Ansari	Delhi
25.	Sh. Syed Masood-ul-Hasan	Delhi
26.	Sh. Mohd. Azhar Hayat	Nagpur
27.	Shri Mohd. Kunhi K.	Calcut
28.	Sh. Mohd. Sikandar	Patna
29.	Shri A. Abdul Rehman	New College, Madras

- | | | |
|-----|---------------------------------|---------------------------|
| 30. | Sh. Ahmad Ali | Govt. H&C College, Bhopal |
| 31. | Km. Nirkhat Anwar | -do- |
| 32. | Sh. Mohd. Badiur Rahman | Calcutta |
| 33. | Km. Rashida Khatoon | Osmania |
| 34. | Shri Abdul Kadir Jailani | New College, Madras |
| 35. | Sh. Mohd. Nazim Uddin Choudhary | Gauhati |

SUBJECT... PERSIAN

- | | | |
|-----|---------------------------|--|
| 36. | Km. Naseem Bahu | M.S. University of Baroda |
| 37. | Sh. Mohd. Munawar Masoodi | Jamia College, Jamia Nagar
New Delhi. |
| 38. | Km. Sajida Begum | Zakir Hussain College |
| 39. | Sh. S.M. Sultan Rizvi | Banaras |
| 40. | Km. Shaheen Aman | Aligarh |
| 41. | Sh. Insan Karim Burke | Patna |
| 42. | Smt. Rashida Sehbal | H& Comm. College, Bhopal |
| 43. | Km. Sayyad Nahid Yousuf | Poona. |

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 21st February, 1977

Item No. 2(b) : To receive the items of information.

--:-

To receive a statement showing the availability/
utilisation of foreign exchange during the quota
period 1-4-1976 to 31-12-1976.

--:-

The Commission at its meeting held on 10-2-1975 desired (Item 4) that a six monthly statement be placed before the Commission with regard to the availability/utilisation of foreign exchange.

During the foreign exchange quota period 1-4-1976 to 31-12-1976, the applications received from various universities/institutions were recommended to the Ministry of Education and Social Welfare for the release of necessary foreign exchange. In addition, import licences requiring enhancement in the c.i.f. value due to rise in prices etc. were also recommended to the Govt. of India. Accordingly the requirements of universities and institutions to the extent of Rs. 19,08,685 from foreign credits and Rs. 9,99,665 from free resources could be met during the period 1-4-1976 to 31-12-1976.

Unesco coupons worth \$34770.43 (Rs. 3,02,383.54) were also made available to the universities and institutions during the said period to enable them to meet their urgent import requirements.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Date : 21st February, 1977

Item No.2(c): To receive the statement of proposals which could not be accepted by the Commission.

The following proposals of the colleges have not been approved for financial assistance under Rs.5 lakh schemes during the Fifth Five Year Plan period due to the non-fulfilment of the eligibility conditions indicated below:

Name of the College	Project	Estimated cost	Date of order	Reason
2	3	4	5	6
<u>URU NANAK DEV UNIVERSITY</u>				
Mata Ganga Girls College, Taran Taran	Construction of staff quarters	3,36,000/-	25.9.76	Completion of minimum students & staff not fulfilled
S.D. College for Women, Jullundur.	Canteen, Lib, Lecture theatres and class rooms.	8,53,418/-	29.10.76	-do-
Baba Budha College, Bir Sahib.	Lib. Bldg. students centre and staff colony.	Not indicated	28.12.76	-do-
<u>LUCKNOW UNIVERSITY</u>				
Karamat Hussain Muslim Girls College, Lucknow.	Bocks	6,000/-	3.11.76	Conditions of minimum staff strength not fullfilled.
<u>P. UNIVERSITY</u>				
Govt. College, Bilaspur.	Hostel, Staff quarters N.R.S.C. Animal House.	7,19,362/-	27.12.76	Condition of minimum enrolment not fullfilled.

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PANJABI UNIVERSITY

6. Govt. Bikram College of Commerce, Patiala.	Improvement of Undergraduate education facilities.	Not mentioned	27.12.76	Condition of minimum enrolment not fulfilled.
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ANDHRA UNIVERSITY

7. Dharma Apparao College, Nuzvid.	i) Books & Journals	50,000/-	20.12.76	Low student enrolment
	ii) Lab. Equipment	59,000/-		
	iii) Lab. Furniture	16,000/-		

MAGADH UNIVERSITY

8. Oriented College, Patna City.	i) Extension of Teaching Accommodation	4,89,004/-	17-1-77	Low enrolment
	ii) Books & Journals	2,25,000/-	-do-	

DIBRUGARH UNIVERSITY

9. M.D.K. Girls College, Dibrugarh.	i) Teaching Accommodation	5,00,000/-	22-1-77	Low enrolment
	ii) Women's Hostel	3,50,000/-	-do-	

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 21st February, 1977.

Item No. 3 : To approve the statement of grants released after
the last meeting of the Commission held on 31st January, 1977.

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S.No. Name of the University/
Colleges Subject Instalment Amount

1. Agra University.

Organisation of 2 days all India Conference in 3,000

Affiliated Colleges.

A.V. College, Aligarh.	Financial Assistance to teachers in the Univ.	3,000
Agra College, Agra.	-do-	5,000
St. J. College, Agra.	-do-	3,000
Agra College, Agra.	-do-	6,000
-do-	-do-	1,500
KFP College, Mathura.	-do-	1,500
L. College, Agra.	-do-	2,000
R.B.S. College, Agra.	-do-	600
K.R.P. College, Mathura.	-do-	1,500
Agra College, Agra.	-do-	2,500
S.V. College, Aligarh.	-do-	1,000
BSM. Agarwal College, Mathura.	-do-	600

p. t. o.

Affiliated Colleges Agra University

R.B.S. College, Agra.	Financial Assistance to teachers	1,500
SV College, Aligarh.	-do-	1,000
R.B.S. College, Agra.	-do-	2,000
D.S. College, Aligarh.	-do-	3,000
S.V. College, Aligarh.	-do-	1,000
BSMA College, Mathura.	-do-	2,000
Agra College, Agra.	-do-	3,000
DS College, Aligarh.	-do-	5,000
RBS College, Agra.	-do-	500
Agra College, Agra.	-do-	2,000
M.P. College, Shikohabad.	-do-	5,000
Agra College, Agra.	-do-	5,000
R.B. College, Agra.	-do-	8,000
Agra College, Agra.	-do-	3,000
-do-	-do-	6,000
S.V. College, Aligarh.	-do-	6,000
-do-	-do-	7,000
Agra College, Agra.	-do-	4,000
-do-	-do-	4,000
St. John College, Agra.	-do-	3,000
-do-	-do-	3,000
SV College, Aligarh.	UGC Assistance for the research project	68,800
-do-	-do-	5,000

Affiliated Colleges Agra University.

Agra College, Agra.	UGC assistance for the social Science Development Programme.	10,800
S.V. College, Aligarh.	Grants for the Establishment of Book- Bank.	5,625
D.S. College, Aligarh.	Development of Undergraduate facilities During the Vth Plan.	10,500
-do-	-do-	5,400
		2,14,325

Aligarh Muslim University

P.G. Diploma course in Computer Science.	20,000
Financial assistance to teachers for research projects.	10,000
-do-	1,500
-do-	4,000
-do-	7,500
-do-	1,000
-do-	3,000
-do-	2,000
Sr/Jr. Research Fellowship in Science/ Humanities in Engg. & Technology.	2,700
-do-	2,648-39
Const. of Electrical Engg. Block for Z.H. College of Engineering & Technology.	40,000
Construction of Women's Hostel.	2,00,000
Youth work at Somnath.	698-26
Construction of Amenities Block.	10,000
Construction of Provest House at 375 . Engineering students Hostel.	15,000
Unassigned grant for 1976-77	25,000
Const. of 12 Dupliex Lecturers Qrs.	1,00,000
Const. of Geography Deptt. Building.	50,000

contd.

Aligarh Muslim University.(Contd.)

Purchase of Equipment for Five Arts Section	7,500
Const. of 36 quarters for class IV Staff.	1,00,000
Award of Teacher Fellowship to Smt. Namita Singh, Lecturer in Chemistry.	1,000
Development of Museum and Audio-Visual Aids	17,500
Award of Teacher Fellowship to Ch. Abdul Maroof Khan, Lecturer in Chemistry.	2,991-94
Const. of Common Room and Canteen at Z.H. College of Engineering.	.000
Salary of staff under U.S. 12 Million Dollar Loan Scheme.	20,000
Support for Research Programmes during Vth Plan.	3,00,000
Scholarship for Honours Studies in Arabic.	1,800
Full Time L.L.M. Scholarship- Payment. Reg.	3,000
-do-	3,000
-do-	3,000
-do-	3,000
-do-	3,000
UGC Assistance for the Research Project.	9,800
Scholarship for Honours Studies in Arabic.	1,800
	10,22,438.

Allahabad University.

Utilisation Service of Retired Teachers.	12,582
U.G.C. Assistance to the Department of Ancient History, Culture and Archaeology.	4,00,000
UGC Assistance for the Research Project.	7,800
Sr/Jr. Research Fellowship in Humanities including Social Sciences.	1,664-52

contd...

Mad University (Contd.)

Sr./JR. Research Fellowships in Science/Humanities including Social Science.	4,700
Financial Assistance to Teachers for Research project.	4,000
-do-	6,000
Award of Teacher Fellowship to Shri HC Srivastava.	1,903-23
UGC assistance for the Research Project.	21,100
Construction of Two Tube Wells at PCB, SSL & Chatham lines Campus.	20,000
Utilisation of services of retired teachers.	9,000

Students Aid Fund in the Colleges. 2,750

1,91,499.75

Sr./Jr. Research Fellowship in Science/Humanities	1,500
-do-	3,200
-do-	3,233-33
-do-	3,100
-do-	2,996-77
-do-	3,340
-do-	2,919-35
-do-	2,793-33
-do-	2,985-87
-do-	3,016-67
-do-	3,000-00
-do-	3,313-33
-do-	3,183-33
-do-	2,870-97

Andhra University(Contd.)

	Sr/Jr. Research Fellowship in Science/ Humanities.	1,500
	Financial Assistance to teacher for Research work.	1,500
	-do-	1,000
	-do-	2,000
	-do-	1,300
	-do-	1,500
79-078, S	-do- -ob-	1,000
hfnoc	-do-	1,000
	-do-	10,000
	-do-	3,000
	Award of Teacher Fellowship to Smt. S.Indira Devi.	117
	UGC Assistance for the research project.	73,600
	-do-	40,000
	-do-	1,43,800
	-do-	14,600
	-do-	1,35,800
	-do-	25,600
79-078, S	Establishment of Health Centra. -ob-	10,000
	UGC Assistance for the Research Project.	23,600
hfnoc	Writing of University level Books/Monographs.	2,066-70
	Award of Teacher Fellowship to Sh. S.N. Murthy.	2,525
	UGC Assistance for the research project.	25,000
	Award of Teacher Fellowship to Sh. U.A.Narasimhamurthy.	2,790
	Financial assistance for field training work in Geology.	2,764-46
	Purchase of Motor Van for the Department of Arts.	1,733-39
	Financial assistance to teachers for research work.	2,500

contd.

Chhra University (Contd.)

Award of Teacher Fellowship to Shri K.Ramadas. Lecturer in Botany.	2,463-33
Award of Junior Fellowship to P.G. Students admitted in to M.E. M.Tech. & Pharmacy for 1976-77.	1,70,000
Research Associateship in Science/Humanities.	5,520
Autumn Course on Application of Analysis to Mechanics	6,117-30

Affiliated Colleges.

V.R.S. & Y.R.N. College, Chirala.	Const. of Library Building.	50,000
M.R. College of Education, Vislanagaram.	Financial assistance to teachers for research work.	2,500
V.R.S. & Y.R.N. College, Chirala.	Construction of Gynasium.	3,700
Noble College, Machilipatnam.	Financial assistance to teachers in the University for research work.	1,000
Govt. Degree College, Nidadavele.	Students Aid Fund for 1976-77.	730
M.S. College, Vijayawada.	-do-	2,250
S.C.I.M. Govt. College, Tenaku.	-do-	920
T.P. College of Arts and Science, Pedanandipadu.	-do-	1,000
S.A.S.M. Govt. College, Palakal.	-do-	1,750
C.R. College, Chilakalurpet.	-do-	538
Mrs. A.V.N. College, Visakhapatnam.	-do-	1,635

contd...

Andhra University-(Contd.)

Raja R.S.R.K. College, Sriekakulam.	Students Aid Fund in colleges -Grant for for 1976-77.	954
St. Joseph's College for Women, Visakhapatnam.	-do-	1,000
A.J. Kalasala, Machilipatnam.	-do-	1,750
Andhra Loyola College, Vijayawada.	-do-	2,250
Hindu College, Guntur.	-do-	1,322
K.B. College, Vijayawada.	-do-	1,461
T.J.P.S. College, Guntur.	-do-	1,066
V.H. College, Buddhavaram.	-do-	840
S.K.B. Ramara College, Amalapuram.	-do-	2,788
Govt. College for Women, Sriekakulam.	-do-	750
V.S.R. College, Tenali.	-do-	3,126
S.C.R.R. College, Eluru.	-do-	3,250
Govt. College for Women, Guntur.	-do-	2,250
Postgraduate Centre, Warangal.	Junior Research Fellowship in Science.	2,945-16
College of Engineering, Andhra Univ.	-do- in Engg.	3,183-33
Government College, Rajamundry.	Financial assistance to teacher for research work.	10,000
D.P. College, Muzvid.	-do-	2,000

8,73,309.02

P. Agril. University.

Weed Science Conference. 3,000

3,000

Manalai University.

Centre of Advanced Study in Marine Biology. 15,640

Sr/Jr. Research Fellowship in Science/Humanities. 2,738-71

Development Schemes under Vth Plan Period. 10,00,000
Development of Computer Facilities.

10,18,378.71

P. Singh University.

Allocation of Unassigned grant for 1976-77. 15,000

Recurring grant for the teaching staff. 80,000

Recurring grant for the teaching staff (Deptt. of Economics. (Humanities). 35,000

Affiliated Colleges.

Govt. PG College, Satna. Purchase of Lib. Books & Journals. 45,000

Govt. Girls College, Jabdol. -do- 50,000

Govt. Girls Degree College, Rewa. -do- 15,000

Govt. Degree College, Umar. Financial Assistance for Book Bank. 4,000

Govt. College, Ekangarh. Financial assistance to teachers for research work. 500

V.S. College, Chalkhab. Grants to college for loan of Book Bank. 4,000

Govt. Science College, Bunc. -do- 6,000

contd...

A.P. Singh Univ. (Contd)

M.M.D. College, Kotma.	Students Aid Fund for 1976-77.	600
N.S. Mahavidyalaya, Chalkghat.	-do-	753
Govt. Girls College, Rewa.	Financial Assistance to teachers for research work.	1,000
Govt. Science College, Rewa.	-do-	1,500
-do-	-do-	1,000
-do-	-do-	1,000
-do-	-do-	500
-do-	-do-	500

2,61,353

Avadh University.

Affiliated Colleges.

R.S.S. Degree College, Sultanpur.	Students Aid Fund in college during 1976-77.	1,750
K.N. Instt. of Science and Technology, Sultanpur.	Financial assistance to teachers for research work.	500
Kisan Postgraduate College, Baheraich.	Purchase of Books and Journals.	1,875

4,125.00

B. Bangalore University.

Award of Teacher Fellowship to Shri Chand Bosa M.I. Lecturer in Commerce.	1,000
U.G.C. Assistance for the research project.	9,600
Sr/JR. Research Fellowship in Science/Humanities.	1,500

contd....

Bangalore University.(Contd.)

	Utilisation services of retired Teachers .	9,000
	Financial assistance for the research project.	4,000
	Award of Teacher Fellowship to Sh. Chand Bosa M.I.	3,000
<u>Affiliated Colleges.</u>		
Mount Carmel College, Bangalore .	College Humanities and Social Science .	20,000
S.K.R. College, Barbigha .	Const. of Laboratory Building.	2,216
Mount Carmel College, Bangalore .	College Science Improvement Programme .	25,000
Christ College, Bangalore .	Purchase of Laboratory Equipments .	28,212
Christ College, Bangalore .	Financial assistance to teachers for	2,000
Govt. College, Bolar .	Grants Towards the loan of Books .	11,250
S.C. Instt. of Indian Medicine, Bangalore .	-do-	5,625
First Grade College, KGF Gorgeam .	-do-	8,500
First Grade College, Chintamani .	Students Ad Fund for 1976-77 .	1,000
Uddaganga Eve. College, Mankkur .	-do-	443-50
Municipal First Grade College, Chintamani .	-do-	1,000
Shri Nijalingappa College, Ajajinagar, Bangalore .	Establishment of Book Bank .	1,875
M.S. National College, Kuribidanur .	-do-	1,875
P. College of Arts, Commerce & Science, Bangalore .	-do-	3,750
S.S. Arts & Science College, Kandavan, Kadugodi Port-Whitefield .	-do-	870-75
		<u>1,41,777.25</u>

10. Banaras Hindu University.

Financial Assistance to teachers for research work.	7,000
Education Tour of the students of IVth Year B.Tech.	3,130-70
Financial assistance to teachers for research work.	3,000
U.G.C. Assistance for the research project.	66,800
Award of National Fellowships to Prof MS. Kanungo.	14,118
Const. of two additional Warden Quarter for 212 students hostel.	3,430-91
Award of Teacher Fellowship to Sh. Surendra Singh, Lecturer in Physics.	1,000
Const. of Additions in Dinning Halls and Kitchen	1,775-95
Repairing of Boundary Wall.	2,000
Award of Scholarship for L.L.M. Courses.	3,000
-do-	3,000
-do-	3,000
Sr/Jr. Research Fellowships in Science.	3,300
Proposal of Conference under Gaha Research Conference.	5,000
UGC assistance for the research project.	1,800
Financial Assistance to teachers for research work.	1,500
-do-	1,800
Const. of Building of part-time P.G. Diploma course in Business Management.	1,356-75
Research Scheme on Reproduction of Biology.	22,453-52
Organisation of Summer School in Experimental Mechanics.	12,000-00
Writing of University level books/monographs.	1,000
utilisation of service of retired teachers.	9,000
Improvement of existing Boundary wall.	10,000

Banaras Hindu Univ.(Contd.)

Const. of Boundary Wall in Panchkoshi Area for the residents of the New Medical Enclave.	25,000
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Affl. College.

Vasanta College for Women, Varanasi.	Students Aid Fund for 1976-77.	1,000
		<u>2,20,465.83</u>

Berhampur University.

Financial Assistance to Teachers for research work.	2,000
UGC Assistance for Research Project during the Vth Plan.	20,000
Financial assistance to teachers in universities for research work.	4,000
National Associateship Scheme-Dr. C.S. Panda.	1,000
Award of Teacher Fellowship to Shri S.C. Padhi.	1,387-10

Affl. Colleges.

S.K.C.G. College, Purala.	Financial Assistance to teachers for Research work.	1,000
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Berhampore Girls College, Murshidabad.	-do-	2,500
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Khallikote College, Berhampore.	-do-	3,000
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3,887.00

12. Bhopal University

Grants for support of Research in the Unive		
during Fifth Plan period		25000
Senior/ Junior Research Fellowships in S ciences		
Huma nities including Social Scineces		2,635
Recurng gra nt for the teaching staff		50,000
Organisa tion of All India Students Symposium		
on 'the problems and prospects of Higher		
Education in India		5,000
Propose l for orga nisation conference		
on Creativity in-Physics at		3,000
Financial Assista nce to tea chers in the		
universities and colleges for undert-aking		
minor research projects in Science		7,000
-do-		1,000
-do-		1,000
Student's Aid Fun- in the Colleges		4,250
-do-		2,080
-do-		820
-do-		1,690
		<hr/>
		1,03,281.48

13. Bihar University

Award of Teacher Fellowship		1,620
U.G.C? assitance for the research		12,800
Orga nisation of 7th All India Confer-		
ence of linguists		3,000

Affiliated Colleges

A.S.College, Muzaffarpur	Financial Assista nce to Teacher in the Universities and colleg es for minor research projects	3,000
A.N.College, Muzaffarpur	Financial Assistance to Teachers for Research work	1,000
A.S.College, Bihar	-do-	1,350
A.L.R.N College, Sarn	Book Ba nk	4,500
H.M.D.College, Dayalpur	-do-	1,500
D.A.V.College, Siwa n	-do-	8,000
Ba jra nain College, Hajipur	Students Aid Fund in the Colleges Sanction of Grants	1,000
Jagden College, Chapna, Saram.	-do-	1,230
		<hr/>
		39,013

B.N. Chakravarty University,

Financial Assistance to the Teachers in the universities and colleges for undertaking minor research projects	5,000
-do-	5,000
-do-	7,000
-do-	8,000
Senior/Junior research Fellowships in Science/Humanities including Social Sciences/Research Fellowships	2738.71
Establishment of Students Aid Fund	5,000
Senior/Junior Research Fellowship in Science/Humanities including	3,500
Grant for purchase of library books and journals during fifth five plan	2,00,000
Award of Teacher Fellowship	2,666.67

Affiliate Colleges

Vaish College, Rohtak.	Improvement of undergraduate educational facilities	70,000
G.N.K. College, Yamunagar.	Development Schemes of Teachers Training Colleges.	7,000
C.R.H.J College, Hissar	Purchase of Books and Journals.	10,000
B.B.R. College, Sidhrawali.	Payments of salary to Shri Uma Sankar	424.78
G.M.N. College, Ambala Cantt.	Teacher fellowship Programme in the department of Botany.	5,334
G.N. Girl College, Yamunanagar.	Improvement of under graduate educational facilities	5,000
	-do-	10,000
Pt. J.L.N. College, Faridabad.	Financial Assistance to teachers in universities and colleges for undertaking minor research projects	1,000
	-do-	1,000
Dayanand College, Hissar.		
R.E College, Kurukshetra.		2,000
I.B. College, Panipat.		1,000
M.H. College, Shahabad.		3,000
R. E. College, Kurukshetra.		5,000
-do-	-do-	5,000
Govt College, Bahajurgarh	Book Bank	1,500
S.D. College, Panipat	-do-	3,750
G.N. Girls College, Santpura.	-do-	1,500

16. Bombay University

	National Associateship Scheme	397-70
	Development of Arua Studies programas IV Plan	400,000/-
	Research Associateship in Science Humanities including social	5,500
	Centre of Advanced Study in Applied Chemistry.	25,500
	Centre of Advanced study in Math.	50,000
	Award of Fellowships sanctioned	15,000
	-do-	40,000
	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects:	2,000
	-do-	2,500
<u>Affiliated Colleges</u>		
	D.G. Ruparel College, Bombay	-do- 1,500
	Institute of Science, Bombay	-do- 1,000
	Ramnarayan Ruik College, Bombay	-do- 4,500
	-do-	-do- 8,000
	-do-	-do- 30,000
	-do-	-do-
	Senior/ Junior Fellowship in Sciences/Humanities including Social Sciences/ Research	2,952-2
	Teacher Fellowship Programme in the Department of Bio- Chemistry	4,607-4
	Fifth Five year Plan Improve of undergraduate educational facilities	50,000/-
	K.J.Somaiya College of Art and Commerce, Bombay.	Grants to Colleges/libraries for loan of books. 8,000
	H.J.D.College of Education, Bombay	Students Aid Fund in Colleges 750/-
	Sidharth College, T.1 Bombay.	-do- 2,750
	K.J.S College of Science, Bombay	-do- 1,000
	Sidharth College, Bombay.	-do- 2,250
	Sri Panchan Akonji Mahavidy- alaya, Savantwadi.	-do- 999
	V.J.Tech. Institute, Bombay	-do- 1,978
	M.M. College of Arts and Science, Bombay	-do- 1,750
	Bhiwandi Nijapur Nagarपालिका college, Bhiwandi.	-do- 750/-

<u>Affiliate Colleges</u> B.N. Chakrabarty Univ. Contd.		
F.C.College for man Hissar.	Students Aid Fund in the College	1,000
Janta College, Kauk(Kurukshtra)	-do-	910
Rav Birender Singh College, Rewari	-do-	1,000
B.E.C. College, Bhiwani	-do-	2,250
Haryana War Herros Memorial College, Gohana.	-do-	1,750
C.R.M.J.College Hissar.	-do-	1,660
Dyal Singh Colleges, Karnal	-do-	2,750
G.N.K College, Yamunanagar.	-do-	1,000
S.P.College of Education, Rewari.	-do-	750
M.L.N College, Yamunanagar	-do-	3,750
		<hr/>
		3,88,234.16

15. Bhagalpur University

Senior/ Junior research Fellowships in Science/Humanities including U.G.C. Assistance for the research project entitled		3,30,000
Award of Teacher Fellowship		1,000
-do-		1,822
-do-		1,693
Financial Assistance to teachers in the universities and colleges for undertaking minor research projctes.		500
-do-		1,500
-do-		500
-do-		1,500
-do-		6,000
-do-		5,000
<u>Affiliate Colleges</u>		
T.D.N.College, Bhagalpur.		1,000
-do-		5,000
-do-		6,000
Bhagalpur College of Engineering, Bhagalpur.	Award of Teacher Fellowship	1,000
Sihabganj College, Sahibganj.	Financial Assistance during	20,000
-do-	Municipal Assistance during V Plan period Purchase of Laboratory equipment.	20,000
		<hr/>
		1,35,216

17. Burdwan University

	Financial Assistance to teachers in the Universities and colleges for undertaking minor research projects	4,000
	-do-	1,000
	Award of Teacher Fellowship to	2,600
	-do-	2,600
	-do-	2,700
	U.G.C. Assistance for the research report project entitled	27,800
	Senior/Junior fellowships in Science/ Humanities including social Sciences	600
	Construction of Gymnasium.	48,400
	Grant-in-aid towards the construction of Geography Building.	60,000
	-do-	1,25,000
	-do-	30,000
<u>Affiliate Colleges</u>		
Ismailia College, Bhaulpur	Financial assistance to teachers in the universities and colleges for undertaking research work	2,000
Sambhunath College, Birbhum	Grants for purchase of laboratory equipment during the V year plan	10,000
-do-	-do-	5,000
-do-	-do-	30,000
-do-	-do-	10,000
K.M. Khalisani, Chandernagore, Hoodhly.	Book Bank	8,000
Guskara M. College, Burdwan	Student Aid Fund in the colleges	2,700
S. College Bankura	-do-	2,250
Kalra College West Bengal	-do-	3,250
V.M., Burdwan.	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science	1,000
S.B. College, Hooghly	-do-	1,000
Trivandrin College, Burdwan	-do-	6,000
		<hr/>
		4,06,038

18. Calcutta University

	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects.	1,000
	-do-	1,500
	-do-	1,500
	-do-	2,500
	-do-	1,500
	-do-	9,000

Calcutta University (Contd)

	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science	1,000
	-do-	1,500
	-do-	3,000
	-do-	8,000
	U.G.C. Assistance for the research project entitled	16,200
	Grant-in-aid towards holding seminars	10,000
	U.G.C. Assistance for the research projects entitled	7,000
	Grants-in-aid towards the purchase of Research project as Art and life of Implementation of N.S.S. universities	6,00,000
	Grant-in-aid towards the purchase of Ultracentrifuge for Bio-physics	4,000
	Financial Assistance to Teachers for Research work	1,000
	-do-	3,02,842
	-do-	2,500
	U.G.C. Assistance for the research projects entitled	2,500
	-do-	16,000
	-do-	31,000
	-do-	1,16,200
	-do-	38,800
	Senior/Junior Fellowships in Sciences humanities including social Science	1,000
	-do-	1,000
	-do-	1,000
	-do-	2,150
	-do-	1,919-35
<u>Affiliated Colleges</u>		
B.N. C College, West Bengal.	Financial Assistance to teachers in the universities and colleges for undertaking research work.	3,600
	-do-	1,000
	-do-	1,750--
	-do-	150/-
	-do-	500/-
Residency College, Calcutta.	Organisation of Summer Institute on Award of Teacher Fellowship	30,000--
	Financial Assistance to Teachers for research work.	2,708-33
		1,000

R.M.M. College, Howrah(W.B)	Students Aid fund in the colleges	1,0
Sitananda College, Est Bengal	-do-	1,0
G.M.S. M. M. West Bengal.	-do-	1,7
H.M.G College, Calcutta.	-do-	1
M.B. B.College, Agartala (Tripura)	-do-	1,6
M.W. College, Malda Distt. Malda, West Bengal.	-do-	1,0
M.S. College, Calcutta.	-do-	1,1
S.N.College for women Calcutta.	-do-	1,0
B.E. College, Scott Lane, Calcutta	-do-	3,0
M.M. Barrackpore, West Bengal	-do-	4,0
T.G.College, West Bengal.	Book Bank	1,5
V.V.M. Wilanpur, West Bengal	-do-	5,5
Teki Govt College, West Bengal	-do-	3,0
A.B.T T College, WEST BENGAL	-do-	5,5
V.C,College, Paraganas	Financial Assistance to teachers in the universities and colleges for under- taking minor research projects.	10,0
Presidency College, Calcutta.	-do-	6,0
Vivakanand College, Calcutta.	-do-	2,0
-do-	-do-	1,0
M.A.College, Calcutta.	-do-	1,0
P.K.M.College City College, Calcutta.	-do-	1,5
-do-	-do-	1,0
V.K.Girls College, Howrah(West Bengal)	-do-	1,5
R.P.M, College, Hooghly,	-do-	1,0
Serganore College, West Bengal	-do-	1,0
Uluberia College, West Bengal	-do-	1,0
N.A, College, Calcutta.	-do-	1,0
R.B.College, West Bengal	-do-	1,5

Affiliated Colleges (Calcutta University Contd)

Sa ntipur College, Medic(West Bengal)	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects.	1,500/-
S.A.J.College, Calcutta.	-do-	1,000
D.D.M.J College, Calcutta.	-do-	1,500
B.E.S. College, Calcutta.	-do-	1,000
R.B College, West Bengal V. I. Calcutta.	-do-	2,000
N.A.College, Calcutta	-do-	2,000
Presidency College, Calcutta.	-do-	1,500
G.M.G irls College, Calcutta.	-do-	1,000
		1,000
<u>Calicut University</u>		<u>13,23,925.15</u>
	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects.	1,500
	Students Aid Fund for the year	4,652--
	Grant-in-aid towards study centre	17,765/-
	-do-	22,000
	Grants of purchase books	15,000
<u>Affiliated Colleges</u>	Financial Assistance to teachers	
Govt Art and Science College, Calicut.	in the universities and colleges for undertaking research work.	5,000
G uruvayurappan Co- llege, Kerala)	-do-	1,000
St. Joseph's College Devagiri, Kerala	Improvement of undergraduate edu- cational facilities construction.	50,000
N.S.S.T College, Ottapalam, Kerala	Construction of Library and Lab.	10,000
M.E.S.M College, Malapuram Kerala	-do-	50,000 -
M.E.S. Ponnani College, Maganam.	-do-	750/-
Medical College, Kerala	-do-	1,023
Christ College, Kerala	Students Aid Fund in the colleges	1,974
Mercy College, Palghat, Kerala	-do-	1,000
Govt, College, Kerala	-do-	1,620
G.K.College. Kerala	-do-	1,527
M.E.S.MAMPAD College, Kerala	Setting up Book Bank sanction	2,500
		<u>1,87,311</u>

20. Cochin University

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects.	6,0
Senior/Junior Fellowships in Science Humanities including social research	2,7
Award of Teacher Fellowship	2,2
Support for advanced research in the humanities and social Sciences.	1,5
Construction of Central Library	1,00,0
Writing of University Level books	4,4
	<u>1,16,88</u>

21. Dibrugarh University

Grant-in-aid towards field training work in Geology for the year.	3,0
Unassigned Grant for the year	19,5

Affiliated Colleges

J.N.College, Jorhat(Assam)	Financial Assistance to teachers in the universities and colleges for undertakings minor research projects.	5,0
Sibsagar College, Sibsaagar(Assam)	Students Aid Fund in the colleges	1,7
		<u>29,2</u>

22. Gauhati University

Visit of Dr. A.B. Barus	10,5
Financial Assistance to teachers for research work	1,0
-do-	5
Senior/Junior research fellowships in Science/Humanities including	2,9
U.G.C. Assistance for the research project	14,6
Basic Grants for the purchase of Scientific equipment	1,50,
Grant-in-aid towards the construction of an extension to science Block No	75,
-do-	30,
-do-	1,00,

Affiliated Colleges

Paragjyotish College, Gauhati(Assam)	Construction of Additional Class rooms and laboratories.	7,9
Monga College, Monga(Assam)	Financial Assistance to teachers in the universities and colleges for undertakings minor research projects	1,0
Cacher College, Silchar Cacher(Assam)	Students Aid Fund in the Colleges	1,7
R.S.Girls College, Cacher(Assam)	-do-	4
Tezpur College, Tezpur Assam	-do-	5
Bengalgaon College Bengalgaon.	Book Bank	3,0
		<u>3,99,204.0</u>

Alhi University.

U.G.C. Assistance for the research project.	14,600
-do-	14,800
-do-	35,600
-do-	6,000
-do-	9,000
-do-	7,800
-do-	8,800
-do-	10,000
Commonwealth Academic Staff Awards/Fellowship award to Dr. C.L. Talesara.	8,946-42
Centre of Advanced Study in Sociology including North Eastern Hill Area.	3,50,000
C.A.S. in Economics. Recurring & Non-Recurring grants.	1,00,000
-do-	1,45,229
C.A.S. in Zoology.	2,58,000
Construction of extension to Arts Faculty.	30,000
Const. of P.G. Men's Students Hostel for 100 students.	20,000
Sr/JR. Research Fellowships in Science/Humanities.	1,083-87
Jr. Research Fellowship in Science/Humanities.	1,500
-do-	600
Financial assistance to teachers for research work.	1,400
-do-	1,000
-do-	2,500
Award of Teacher Fellowship to Shri J.D. Arora.	2,125
Award of Teacher Fellowship to Shri Asad Ali.	1,000
Utilisation of services of retired teacher.	500

contd. ...

Delhi Univ. Affiliated Colleges. (Contd)

Delhi School of Social Work, Delhi.	Implementation of National Services.	20,000
Lakshmi Bai College, Delhi.	Construction of Boundary Wall.	3,200-60
V.P.Chest Instt., Deelhi.	UGC Assistance for the research project.	6,208-65
M.A.M. Medical College, Delhi.	Travel Grant to Dr.(Miss) S, Padmavati.	5,398
Vivekananda College, Gandhi Nagar.	Financial assistance to teacher for research work.	750
Central Instt. of Education, New Delhi.	-do-	1,000
Daulat Ram College, Delhi.	Visit of Dr. (Miss) Kanan Nanda , to U.K.	11,581
Miranda House, Delhi.	Purchase of Library Books.	5,000
Z.H. Memorial College (Day) Delhi.	Purchase of Equipment.	3,000
-do-	Purchase of Library Books.	2,000
Z.H. Memorial College (Eve.) Delhi.	-do-	2,000
R.A.K. College of Nursing, New Delhi.	Students Aid Fund in college for 1976-77	596
L.H. Medical College and Hospital, New Delhi.	-do-	1,750
I.P. College for Women, New Delhi.	-do-	3,750
S.G.T.B. Khalsa College, (Day Classes) Delhi Univ. Delhi.	Loan of books to students (Book Bank)	4,638

<u>Delhi Univ. Contd</u>		
Ramjas College, Delhi.	Financial assistance to college teachers for research work.	1,000
Hans Raj College, Delhi.	-do-	1,000
St. Stephen's College, Delhi-7.	-do-	1,000
Hans Raj College, Delhi.	-do-	1,000
A.R.S.D. College, Delhi.	-do-	1,000
Gargi College, Delhi.	-do-	1,500
A.R.S.D. College, New Delhi.	-do-	1,000
Daulat Ram College, New Delhi.	-do-	1,500
Ramjas College, Delhi.	-do-	1,000
Gargi College, New Delhi.	-do-	1,000
A.R.S.D. College, New Delhi.	-do-	1,500
S.V. College, New Delhi.	-do-	1,500
Hans Raj College, New Delhi.	-do-	1,000
Kirori Mal College, Delhi.	-do-	4,000
-do-	-do-	6,000
S.V. College, New Delhi.	-do-	4,000
Kirori Mal College, Delhi.	-do-	3,000
Ramjas College, Delhi.	-do-	2,500
Kirori Mal College, Delhi-7.	-do-	5,000

11,71,793.62

Garhwal University
Affiliated Colleges

B.G.P. Govt. College, Bari (Garhwal-U.P)	Students Aid/ in the college grant	295
K.P. College, Barpradesh.	-do-	3,250
P.S. College, Bar Dun (U.P.)	Construction of teachers Hostel	9,140

Deekhour University

		12,685
	U.G.C. Assistance for the research	9,800
	Financial Assistance to teacher in the universities and colleges for undertaking minor research projects.	2,000
	-do-	7,500
	-do-	7,000
	-do-	6,000
	-do-	1,000
	-do-	1,000
	-do-	1,000
	-do-	1,000
	Organisation of XIV Annual conference	5,000
	College Science Improvement Programme	1,50,000
	Grant for meeting expenditure towards the salary of additional staff.	3,00,000

Affiliated Colleges

Govt V.D. College, Bari (U.P)	Grant for equipment towards development of undergraduate education	3,000
G.D. College, Bari (U.P.)	-do-	3,000
V.D. College, Bari (U.P.)	-do-	6,000
G.D. College, Bari (U.P.)	-do-	4,500

Gorakhpur Univ. Contd

M.M.M.D College, Bhatpur Rani, Deoria(U.P.)	Construction of library building under development of undergraduate education	20,000
-do-	Grant for purchase of equipment education scheme during the fifth plan.	6,000
D.A.V.P,College, Azamgarh(U.P.)	Grant for books and journals	2,400
M.M.M.D.College, Bhatpur Rani, Deoria(U.P.)	-do-	4,500
B.P. College, Kushinagar,Deoria Uttar Pradesh.	Construction of Teachers Hostel	40,000
S.D. College,Shohratgarh (R iti) Uttar Pradesh	Students Aid/ in the College grant	1,650
M.M.M.D,College, Bhatpur Rani, Deoria(U.P.)	-do-	1,750
S.V.D.College, Deoria(U.P.)	-do-	3,250
J.M. Collge, Jagatpur,Varanasi U.P.	-do-	342/-
S.S.S.V.D.College, Ghazipur(U.P)	Book Bank	2,813
B.R.D.P.College, Deoria(U.P.)	-do-	12,500
M.B.C.B.College, U.P.	-do-	4,500
K.D.College, U.P.	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects.	2,000
M.M.M.E College, Gorakhpur	-do-	2,500
		6,12,005

Contd.....

Gujarat University

Award of Fellowships sanctioned 40,000

Senior/Junior research fellowship in
Science/Humanities including social 1,500

Affiliated Colleges

J.& J College of College Science improvement programme 50,000
Science, Hallad.

S.R.A. College for Student Welfare Programme 4,000
Art of commerce
Vidyaguri, Karpurwad

R.K. P & M.K. Patel Financial Assistance to teachers in the
College, Patel, universities and colleges for undertaking 4,000
Gujrat. research projects.

Navgujrat Art Book Bank 3,500
College, Ashram
Road, Ahmedabad.

S.R.P. & S.K.B. -do- 1,500
commerce College,
Cambay.

P.J.B. & P.A.M. -do- 3,250
commerce college,
Borsad (Gujrat)

N.C. College, -do- 3,500
Ashram Road,
Ahmedabad.

R.B. Lanch, College, -do- 6,000
Bhuj (Gujrat)

H.N. New college, Students Aid Fund in the Colleges 1,554
Lal Darwaja,
Ahmedabad.

College of Education -do- 750
Patel (N. Gujrat)

C.U.S.S. College, -do- 1,000
Ashram Road,
Ahmedabad.

Gujrat College, -do- 1,237
Ahmedabad.

S.K.S. Art College -do- 1,750
& V.M.P. Commerce
College, Karpurwad,
Kaira (Gujrat)

Gujarat Univ. Contd.

Shri R.K.P. Art & N.K.P. Commerce College, Potlad.	Student's Aid Fund in the Colleges	1,750
K.N.M.M.S.Arts, College, Sankheda(Baroda) Gujrat.	-do-	365,
J.J.College, of Science, Nadiad (Kaira) Gujarat.	-do-	921,
S.H.K.-Commerce, college, Ashram Road, Ahmedabad. Gujarat.	-do-	1,750
Vivekanand College of Art Ahmedabad.	-do-	2,750
N.B. College of Commerce and S hri G.M.N.L. ART COLLEGE, D hgan(Ahmedabad)	-do-	1,000
City Commerce College, Lal Derwaja, Ahmedabad.	-do-	2,750
S.T.C.K.College, Bodeli, Gujrat	-do-	694
G.L.S. Art College, Ellisbridge, Ahmedabad.	-do-	2,750
S.R.P. Art & S.K.B. Commerce College, Cambay. Gujarat	-do-	1,750
D.C.M. Art & Commerce College, Virangan, Gujrat.	-do-	1,000
S.B.D.S.College, Modasa(Gujrat)	-do-	250,
N.G.V.M. Ashram Road, Ahmedabad.	-do-	2,750
Paten J.B.R.Art college & A.M.R. Commerce College, Borcad.(Keira) Gujarat	-do-	1,750
N.L.College, Ashram Road, Ahmedabad.	-do-	1,598

Gujarat Univ. (Contd.)

-31-

S.M.B.G.J. College, of Education Rehtak Road, Conbey.	Student Aid Fund in the Colleges.	750
S.S.C.N. Commerce College, Station Road, Vinagar.	-do-	1,601
A.S. Art College, D ^o vgebaria(Gujarat.	-do-	1,000
M.G.Science Institute, Navrangum, Ahmedabad.	-do-	2,750
Shre H.K. Arts College,R.C. Road Ahmedabad.	-do-	1,681
		<hr/> 1,55,351 <hr/>
• <u>Guru Nanak Dev University</u> <u>Anritsar.</u>		
	Unassigned grant for	10,000
	Grant for purchase of books and journals	1,00,000
	Salaries of staff for the health	10,000
<u>Affiliated Colleges.</u>		
R.G.College of Education,Satnampura, Phogwara(Punjab)	Development programme of Teacher Training	2,000
D.A.V. College, Jullundur.	Purchase of Lab. equipment under the Scheme.	5,000
-do-	Equipment for the development of post- graduate studies in humanities	25,000
-do-	Senior/Junior research fellowships in Science/humanities including social	3,100
-do-	-do-	3,100
B.U.C.College Batala.	College humanities and social Science development programme	50,000
D.A.V College, Jullundur(Punjab)	-do-	45,000
Hindu Kanya College, Kapurthala(Punjab)	Students Aid Fund in the College.	1,000

GuruNanak Dev Univ. (Contd.)

Khalsa College, Amritsar.	Grant towards the loan of books.	7,00
S.S.M. College, Dina Nagar(Punjab)	-do-	5,62
D.A.V. College, Jullundur.	Book Bank	2,61
		<u>2,62,4</u>

28 Himachal Pradesh University

	Financial assistance to teachers for research work in humanities and social sciences.	2,40
	-do-	2,50
	-do-	2,50
	-do-	2,350
	-do-	2,50
	-do-	2,50
	Unassigned grant for	10,00
	-do-	4,65
	National fellowship award to Prof.	10,00
	Financial assistance to teachers in the universities and colleges for undertaking minor research projects.	1,50
	-do-	1,00

Affiliated Colleges

Govt. College, Mandi(H.P.)	Improvement of undergraduate educational	15,00
-do-	College humanities and social sciences development programme	36,00
-do-	Improvement of undergraduate educational facilities during the fifth plan period	18,00
		<u>1,10,9</u>

29. G.B.Pant University,
Pantnagar

	Financial assistance to teachers in the universities and colleges for undertaking minor research projects.	7,00
		<u>7,000</u>

<u>C.S. Azad University of Agriculture and Technology, Kanpur</u>	Senior/Junior research fellowships in Sciences/humanities including.	3,246.67
		<hr/>
		3,246.67
<u>Hyderabad University Hyderabad.</u>	Purchase of Scientific Equipment	15,00,000
		<hr/>
		15,00,000
<u>Indore University Indore(M.P.)</u>	Award of Fellowships sanctioned	25,000
	Financial assistance towards research support for development of teaching	2,500
.....	-do-	2,000
	-do-	7,000
	Purchase of Scientific equipment and Central Instruments.	3,65,000
<u>Affiliated Colleges</u>		
Govt. Arts and Commerce College, Indore.	Senior/Junior Research Fellowships in Science/Humanities including social	4,700
I.C. College, Indore.	-do-	2,732.71p
Govt Girls Post-graduate College, Moti Pabla, Indore.	Development grant under 5 lock Scheme	50,000
Govt. N.G. College, Indore.	Student Aid Fund in the colleges.	2,256
.....		
<u>Indira Kala Sangit, Vishwavidyalaya, Khair garh(M.P.)</u>	Award of Fellowships sanctioned for the	5,000
		<hr/>
		4,66,188.71
<u> Jabalpur University</u>		
	Annual conference of M.P. Academy	2,000
	Award of Fellowships sanctioned for	15,000
	Senior/Junior Research Fellowships in Sciences/Humanities including Social	1,500
	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects.	1,000

Contd.....

Affiliated Colleges (Jabalpur University)

Govt. College of Education, Jabalpur.	Utilisation of services of outstanding retired teachers payment of grant.	6,677.22
Govt. Science College, Jabalpur.	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science	10,000
Govt. M.M. College, Jabalpur.	-do-	1,00,000
Hitkarni Mahavidyalaya, Jabalpur.	Book Bank	15,000
Navyug Arts and Commerce College, Jabalpur.	-do-	7,500
		<u>1,28,677.22</u>
<u>34. Jabalpur University</u>		
	U.G.C. Assistance for the research projects entitled.	27,200
	Writing of university level book on	2,000
	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science	6,000
	-do-	2,000
	-do-	7,000
	-do-	2,000
	-do-	1,500
	-do-	1,500
	-do-	2,000
	-do-	1,000
	-do-	1,500
	-do-	1,000
	-do-	1,500
	-do-	2,500
	-do-	1,500

Jadavpur University (CONTD)

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects. 2,000

-do- 2,000

Award of Teacher Fellowship 2,583.33

66,783.33

Development of Computer Facilities 1,00,000

Financial assistance to teachers in the universities and colleges for undertaking minor research projects in Science. 9,000

Affiliated Colleges

M.M.A. College, Jammu. -do- 5,000

Jawaharlal Nehru University New Delhi. 1,14,000

Senior/Junior research fellowships in Science/Humanities including social 3,022.58

-do- 2,700

-do- 3,100

-do- 2,558.06p

-do- 4,506.45

Field work. 50,000

U.G.C Assistance for the research project 23,800

-do- 23,000

Award of teacher fellowship 2,416.66p

U.G.C. Assistance for the research projects entitled. 27,800

Grant-in-aid for the purchase 1,00,000

Providing Air Conditioning in Animal house in J.L.N. University. 1,00,000

Jawaharlal Nehru University
New Delhi; Contd.

Financial Assistance to Teachers for Research work. 750

-do- 3,300

-do- 2,000

Payment of grant to J.N. University 5,00,000
8,49,013.75

37. Jiwaji University, Gwalior. (M.P.) Award of fellowship sanctioned for the 15,000

Allocation of unassigned grant 13,500

Affiliated Colleges

Govt. College, Gun., (M.P.) Book Bank 2,880.

Govt. Girl Degree college (M.P.) -do- 3,000

Govt. College, Morar -do- 5,000

M.L.B. Art & Commerce College Gwalior Student aid Fund in the college 3,250

Govt. Post Graduate College, Shivpuri -do- 1,125

Govt. College, Gun. (M.P.) -do- 2,250

Govt. Girl Delhi College, Morar -do- 888

Govt. Science College, Gwalior -do- 2,440

a. J.L.N.Tech. University (Affiliated Colleges) 34,333.48

Regional Engineering College, Warangal payment of fellowship and contingency grant. 3,066.87

38. Jodhpur University

Financial Assistance to teachers for research work. 750/-

Jodhpur University (contd)

Financial Assistant to teachers in the Universities and colleges for undertaking minor research projects in science.	2,000
-do-	2,000
-do-	1,000
-do-	5,000
-do-	6,000
-do-	6,000
-do-	8,000
-do-	10,000
U.G .C. Assistant for the research project entitled.	10,800
-do-	54,400
Award of teachers fellowship	2,233.33
-do-	25,000
Payment of fellowship and contingency grant.	3,022.58p
-do-	1,500
U.G .C. Assistant for the research project entitled.	7,300
-do-	4,800
Allocation of unsigned grant.	13,106.39p
	<u>162912.30</u>

Kakatiya University

<u>Affiliated Colleges</u> Payment of fellowship and contingency grant.	2,906.43p
R.E.College, Marangal. -do-	2,580.65p
	<u>5407.08</u>

40. Kalyani University

Grant-in-aid-Construction of addition Hostel for 120 Men Students.	50,000
Grant-in-aid for the purchase of equipment.	4,000
U.G.C. Assistant for the research project entitled.	9,600
Grant-in-aid construction of an extension to the chemistry department.	1,00,000
-do-	1,00,000
Financial Assistance to teachers in the universities and colleges for undertaking minor research project in science.	1,000
-do-	2,000
-do-	6,000
-do-	3,000
	<u>275,600</u>

41. Kashi Vidyapith,
Varansi.(U.P.)

Award of teachersfellowship	2,04
Senior/Junior research fellowship in science humanities including social.	2,58

42- Kanpur University

Golden Jubilee Grant over the main building.	45,000
	<u>49,625</u>

Affiliated Colleges

A.R.B.M.M.Mahavidyalya College humanities and social Harish Nagar, Kanpur science development programme.	25,00
V.S.S.D.College Kanpur. College science improvement programme	80,00
K.A.D.College, Allahabad. Improvement of under graduate educational facilities during the fifth Plan period.	4,00
-do-	-do-
	3,00
Christ Church College Kanpur. Construction of N.R.S.C.	5,00
A.N.D.M.M.M. Kanpur. Improvement of under graduate educational facilities- purchase of books & Journals.	15,00

D.D. College, Lalganj(U.P.)	Development of undergraduate educational facilities during the 5th Plan period.	3,000
D.S.N College, Unnao(U.P)	-do-	4,500
D.A.V. College, Kanpur.	Students Aid/ in the College.	5,000
P.P.N. College, Kanpur.	-do-	3,750
J.D.G.D College, Kanpur.	-do-	1,750
J.D.G College, Gangal Road, Kanpur.	Grant towards the loan of books to student	2,813
		<u>152,813</u>

Kashmir University

Financial assistance to teachers in the universities in the colleges for undertaking minor research projects in Science. 7,000

Affiliated Colleges

Pvt College, Prinag(Srinagar)	-do-	2,000
Har Singh College, Prinagar.	-do-	2,000
		<u>11,000</u>

Karnatak University

Award of Scholarship for L.L.M. Course. 3,000
 Development Schemes under V plan period 50,000
 M.Sc applied Geology course Studentship 10,000
 Award of teacher fellowship 2,379.03

B. Commerce College, Gulbarga (Karnatak State) Book Bank 4,000

J.D.E. Association Arts College Student Aid Fund to colleges for the Kanpur(Karnatak) 618

Shri Sureswara College, Mysuru(Karnatak) -do- 514/-

J. Arts & K.C.P. College, Bijapur (Karnatak State) -do- 1,750

40. Kalyani University

Grant-in-aid-Construction of addition Hostel for 120 Men Students.	50,000
Grant-in-aid for the purchase of equipment.	4,000
U.G.C. Assistant for the research project entitled.	9,600
Grant-in-aid construction of an extension to the chemistry department.	1,00,000
-do-	1,00,000
Financial Assistance to teachers in the universities and colleges for undertaking minor research project in science.	1,000
-do-	2,000
-do-	6,000
-do-	3,000
	<u>275,600</u>

41. Kashi Vidyapith, Varansi. (U.P.)

Award of teachers fellowship	2,041
Senior/Junior research fellowship in science humanities including social.	2,583

42. Kanpur University

Golden Jubilee Grant over the main building.	<u>45,000</u>
	<u>49,625</u>

Affiliated Colleges

A.R.B.M.M. Mahavidyalya College humanities and social Harish Nagar, Kanpur	science development programme.	25,000
V.S.S.D. College Kanpur.	College science improvement programme	80,000
K.A.D. College, Allahabad.	Improvement of under graduate educational facilities during the fifth Plan period.	4,000
-do-	-do-	3,000
Christ Church College Kanpur.	Construction of N.R.S.C.	5,000
A.N.D.M.H.M. Kanpur.	Improvement of under graduate educational facilities- purchase of books & Journals.	15,000

J.D. College, Lalganj(U.P.)	Development of undergraduate educational facilities during the 5th Plan period.	3,260
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D.S.N College, Unnao(U.P)	-do-	4,500
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D.A.V. College, Kanpur.	Students Ain/ in the College.	5,000
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P.P.N. College, Kanpur.	-do-	3,750
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J.D.G.D College, Kanpur.	-do-	1,750
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J.D.G College, Gangal Road, Kanpur.	Grant towards the loan of books to student	2,813
		<u>152,813</u>

Kashmir University

Financial assistance to teachers in the universities in the colleges for undertaking minor research projects in Science.	7,000
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Affiliated Colleges

Govt College, Srinagar	-do-	2,000
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Govt Singh College, Srinagar.	-do-	2,000
		<u>11,000</u>

Karnatak University

Award of Scholarship for L.L.M. Course.	3,000
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Development Schemes under V plan period	50,000
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M.Sc applied Geology course Studentship	10,000
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Award of teacher fellowship	2,379.03p
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B. Commerce College, Gulbarga (Karnatak State)	Book Bank	4,000
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L.D.E. Association W Arts College Bijapur(Karnatak)	Student Aid Fund to colleges for the	618
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K. Sureswara College, Bijapur(Karnatak)	-do-	514/-
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B. Arts & K.C.P. Science College, Bijapur Karnatak State.	-do-	1,750
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Karnatak University(Contd)

S.S.L.Law College, Students Aid Fund to Colligges for the Gulberge(Karnatak)		504
K.R.C.E.S. Arts & Science College, Bailhongal, Belgaum.	-do-	1,000
Karnatak Art College, Dharwar:	-do-	1,464
Shri A.S.P. College of Commerce, Bijapur Karnatak(S tate)	-do-	1,590
J.S.S. Art & Science College, Gorak(Karnatak)	-do-	1,000
G.H.College, Soveri(Karnatak)	-do-	1,000
S.B. College of Science, Gulbargo.	-do-	750/
R.L. Science & Institure, Belgum(Ka rnatak State)	-do-	1,000
J.S.S.Arts & Science, Collegen Gokak(Kartatak)	-do-	1,875
V.P. S.C.S. B Arts & Saniti's Science College, Rendurg(Karnatak State)	Book Bank	1,489.84
G.H. College, Heveri P.O. Heveri, Distt.(Dharwar)		1,875
M.P.R. S.Arts and Science Collge, Honavar(North Kanara)	Book Bank Scheme	1,875
S.K. Arts Collge & H.S. K. Science Collge, Hubli.	-do-	2,733-97

90,417.88

Kannan University(Affiliated Colleges

D.S.B. College, Naital.	Senior/Junior research fellowships in the science/Humanities including.	2,970.97
-do-	National Associateship Scheme	1,000
Govt. Postgraduate College, Pithoregarh(U.P.)	Purchase of books & Journals	7,500

Kumach University(centd)		
Govt Post-graduate Purchase of equipment		6,000
College, Phthoragarh, (U.P.)		
D.S.B. College, Nanital.	Financial Assistance to teachers in the universities and colleges for undertakings minor research projects in science.	4,000
Govt.P.C. College, Pithoragarh(U.P.)	Students Aid Fund in the College,	1,313
-do-	Book Bank	2,813
D.S.B College, Nanital(U.P.)	Book Bank	4,688
		<u>20,284.97</u>

Kerala University

	Commonwealth Academic Staff Awards to	6,562.50p
	Support for advanced research in the humanities and social sciences:	4,000
	-do-	8,000
	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in science.	2,000

Colleges

B.M. College, Mavelikera(Kerala)	Construction of Men's Hostel.	10,000
Alphonsa College, Idai(Kerala)	Teaching Accommodation(Extension)	20,000
.C. College, Iwaye(Kerala)	College Humanities and Social Science development programme.	15,000
University College, Pivandrum.	Utilisation of Services of outstanding retired teachers	4,782.26
.G. Collge, Pivandrum.	Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science.	5,000
Benon College, Kerala, India.	Book Bank	3,250
Theraj&s Collge, Kerala	Students aid fund in the colleges.	1,750

Kerala University(Contd)		
Christian Collge, Students aid fund in the colleges. Changanur(Kerala)		1,000
St. Thomase Training Collge, Pazha(Kerala)	-do-	750/-
N.S.B. Hindu Collge, Changanacherry(Kerala)	-do-	2,080
M.I. Collge, Bothany Hills, Trivandrum(Kerala)	-do-	1,975
St. Thomas Collge, Ranni(kerala)	-do-	1,000
S.N.T Collge, Book Bank Nedunganda(Kerala)		4,000
Govt Training Collge, Trivandrum.	-do-	4,000
Govt. Arts Collge, Trivandrum.	-do-	5,000
		<u>100,149.76</u>

47. Lucknow University

Utilisation of Services of outstanding retired teacher s		2,000
Bayment of contingency grant		1,500
	-do-	4,661.29
	-do-	3,475
	-do-	100/-
	-do-	3,340
Utilisation of services of outstanding retired teachers.		4,467.74
Financial assistance to teachers in the universities and colleges for undertaking minor research projects in science.		1,500
	-do-	3,000
	-do-	5,000

Bucknow University(Contd)

-43-

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science. 5,000

-do- 10,000

-do- 6,000

-do- 1,500

-do- 1,000

-do- 2,000

Affiliated Colleges

Alta Degree College, Purchase of laboratory equipment. 18,000
Bucknow.

Tri J.H. D College, Book Bank 11,250
Bucknow.

M.H.D. College, Book Bank 4,500
Bucknow.

88,294.03

M.N. Mithila University
Darbhanga(Bihar.

Allocation of unassigned grant for the 12,000

Colleges

S.S. College, Book Bank 3,250
Supaul Bihar

M.S. College, -do- 2,000
Supaul Bihar

S. College, -do- 3,242
Patna(Bihar)

Total

20,492

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49. Madras University

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science - Payment of grant.		10,000/
-do-		2,000
-do-		3,000
-do-		2,500
Financial Assistance to teachers for research/learned work in Sciences - Payment of second instalment of grant.	Final	1,500
Support for advanced research in the Humanities and Social Sciences.	1st	2,500
Award of Teacher Fellowship to Shri C. Narayanswamy, Demonstrator in Chemistry, Coimbatore Medical College.		2,708.33
Development Schemes under V Plan period - Assistance towards field training work in applied Geology.	1st	3,000
Development Schemes under V Plan period - Visiting Professorship grant.	1st	25,000
Development Schemes under V Plan period - Publication of learned research work including doctoral theses.	1st	30,000
Development Schemes under V Plan period.	1st	20,000
University Grants Commission Assistance for the research project entitled "Investigation on the synthesis' characterization and properties of macromolecules and high polymers' by Prof. M.Santappa and Dr. K.S.V. Srinivasan, Madras Univ.		19,600
Utilisation of services of outstanding retired teachers		4,637.09
payment of grant in respect of Dr. T.M.P. Mahadevan.		124,945.42

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Madras University (contd.)

Affiliated Colleges

St. Joseph's College, Tiruchirapalli-620002	Support for advanced research in the Humanities and Social Sciences.	3rd	20,000
Stella Maris College, Madras-600086.	Fifth Five Year Plan - Improvement of Under- graduates to Educational facilities - Purchase of library books and journals.	2nd	10,000
N.C.Manalingam College, Madras (Tamil Nadu)	Teacher Fellowship Programme in the department of Physical Chemistry - Univ. of Madras - Special Assistance Programme - Payment of substitute teacher's salary - release of 'on account' grant - reg.		4,614.77
A.A. Government Arts College for Men, P.O. Nammakal (Salam)	-do-		4,620
Govt. Thirumagal Mills College, Gandhi Nagar, Gudiyattam - N.A.Distt.	Teacher Fellowship Programme in the Centre of Advanced Study in Botany - Univ. of Madras - Payment of substitute teachers salary and release of 'on account' grant.		6,900
Mathurangam Govt. Arts College, Wellore.	Construction of hostel building.	3rd	25,000
P.S.G. Arts College, Coimbatore	Workshop equipment - V Plan development scheme	1st	79,880
-do-	Purchase of Library books and journals - Vth Plan development schemes.	2nd	15,000
-do-	Purchase of laboratory equipment - Vth Plan development scheme.	2nd	17,560
St. Joseph's College, P.O. Box 315, Trichirapalli-2 (T.N.)	Teacher Fellowship Programme in the department of Bio-Chemistry - M.S. Univ. of Baroda, Special Assistance Programme - payment of substitute teacher's salary - release of 'on account' grant - reg.		12,546 3,21,066.19

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Madras University (contd.)

Affiliated Colleges (contd.)

Vivekananda College, Mylapore, Madras.	Students Aid Fund to Colleges for the year 1976-77.	3,250
Auxilium College, Katpadi Extension, Vellore.	-do-	1,750
Govt. Arts College for Women, North Madras.	-do-	1,898
K.K.Govt. Arts College for Men, Tiruvarur.1	-do-	1,150
Chikkanna Govt. Arts College, Tiruppur.2	-do-	901
Daarmapuram Gnanambikai Govt. Arts College for Women, Mayuram.	-do-	553
Dhanraj Beid Jain College Jyotinagar, Oggayam, Thorapakka, Madras.	-do-	750
S. Ramaswami College, Tiruchirapalli-2.	-do-	3,750
Govt. College of Engg., Salem-11.	-do-	1,490
Rajah Sarfoji Govt. College, Thanjavur.	-do-	1,350
A.A. Govt. Arts College, Kusiri (Trichy Dist.)	-do-	1,000
Sri Avinashillangam Home Science College for Women, Coimbatore.	-do-	2,902
Nirmala College for Women, Coimbatore-18.	-do-	1,750
Sri Sarada Training College for Women, Salem-4.	-do-	756
The New College, Madras-14.	-do-	4,250
Gobi Arts College, Gohichettipalayam, Karattabipalaya.	-do-	1,000
D.D.G.D. Valshnav College, Madras-29.	-do-	2,250
A.V.C. College, Mannampandal, Mayuram.	-do-	1242

1,242
1,242.50
3,53,052.69

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Madras University (Contd)
affiliated Colleges (contd.)

A.A. Govt. Arts College, for Women, Walajapet, N.A. Dist.	Students Aid Fund to Colleges for the year 1976-77.	401
A.A. Govt. Arts College, Chayyar (Na.)	-do-	1,302
S.T.V.E.F. College, Gowrivakkam, Madras	-do-	1,000
Govt. College for Women, Kumbakenam (T.N.)	-do-	1,330
A.A. Govt. Arts College, Karaikal.	-do-	1,000
C. Govt. Arts College, Tirupur-2.	Establishment of Book Bank	2nd 3,250
Gobi Arts College, Gobichettipalayam.	-do-	2nd 1,875
Sri Avinashilligam Teacher College for Women, Coimbatore.	Grants towards the loan of Books - setting up of Book Bank during 1976-77.	1st 4,500
Thanjavur Medical College, Thanjavur-4.	-do- during 5th Plan period	1st 14,000
College of Engg. Guindy, Madras.	Research Fellowships in Engg. & Technology - Payment of contingency grant.	1,000
Jawaharlal Institute of Medical Education & Research, Pondicherry.	Associateship in Sciences/ Humanities including Social Sciences/Engg. & Tech. - Payment of contingency grant.	2,000
Ururu Dhanalakshmi College, Kuttur, Tiruchirapalli-19.	Financial assistance to teachers in the universities and colleges for undertaking research of learned work in Humanities including Social Sciences/Sciences - Payment of first instalment of grant.	1st 1,000
College of Engineering, Guindy, Madras.	Financial assistance to teachers in universities and colleges for undertaking minor research projects in science - payment of grant.	5,000- 270 3,900-70

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Madras University (contd)

Affiliated Colleges (contd.)

Veerhaw College, Vellore (S.India)	Financial assistance to teachers in the universities and colleges for undertaking minor research projects in Science - Payment of grant.	7,500
Jawaharlal Institute of PG Medical Education & Research, Pondicherry.	-do-	5,000
Madras Christian College, Tubaran- Madras.	-do-	5,500
College of Engineering, Guindy, Madras.	-do-	7,000
Sri Ramakrishna Mission Vidyalaya Arts College, Coimbatore.	-do-	6,000
Pariyar R.V.R.(Govt.) College, Tiruchirapalli.	-do-	6,000
P.S.G. Arts College, Coimbatore.	-do-	4,000
Seethalakshmi S. College, Tirichirapalli.	-do-	10,000
Sri Ramakrishna Mission Vidyalaya Arts College, Coimbatore.	-do-	7,000
A. Veeriyar Vendayar Memorial Sri Pushpam College, Poondi- Distt. Thanjavur.	-do-	5,000
	Total:	<u>4,53,708.00</u>

50. Madurai University

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science - Payment of grant.	5,000
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Madurai University (contd.)

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science - Payment of grant.		1,000
-do-		2,500
-do-		2,000
Financial Assistance to teachers in the universities and colleges for undertaking research or learned work in Humanities including Social Sciences/Sciences - Payment of 1st instalment of grant.	1st	2,500
UGC assistance for the research project entitled "Studies on the Circadian Rhythms of a few Tropical Mammals" by Dr. Maroli K. Chandrashekar, Deptt. of Biological Sciences, Madurai Univ. - Approval and release of grants.		82,000
Development Schemes under IV Plan period - Unassigned grant for the year 1976-77 (Excluding UGC Unit).		10,000
Organisation of All India Level Short term Institute or Advanced Course in Biological Sciences.		34,000
Development Schemes under V Plan Period - Construction of Reader's Quarters - reg.	Final	6,000
-do- - Award of Research Fellowships.	1st	65,000
-do- - Construction of Library Building - release of balance.	Final	10,000
University Grants Commission Assistance for the research project entitled "Regulation of Photo-synthetic carbon flow by ammonium compounds" by Prof. A. Gnanam, Prof. of Plant Sciences, Madurai University.		24,400
UGC assistance for the Research project entitled "Ecophysiological studies on culture of air-breathing fishes" by Dr. T.J. Pandian, Madurai University, P.G. Centre, S.P. Arts College, Palni, T.N.		5,000
		2,49,400

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Madurai University (contd.)

UGC assistance for the research project entitled "Mass Culature of Fairy Stremp, Streptocephalus Dichotomus Baird" - Madurai Univ. Release of grant.	23,000
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Affiliated Colleges

V.V. Vanniaperumal College for Women, Virudhunagar (Ramnad Distt.)	Purchase of Books and Journals during V Plan.	2nd 15,000
V -do-	Purchase of Lab. equipments during V Plan.	2nd 10,000
-do-	Purchase of workshop equipment during V Plan.	2nd 20,000
Aditnar College of Arts & Sc., Virapandian Patnam Tirchendur.	College Humanities and Social Sciences Development Programme - Payment of grant.	2nd 25,000
Madurai Medical College, Madurai.	Travel grant to Dr. Sam C. Bose for attending the sixth congress of the International conferderation for plastic and reconstructive surgery - held in Paris from 24th to 29th August, 1975.	4,800
Dr.A.Chettiar Trng. College, P.O. Karaikudi (T.N.)	Financial Assistance to teachers for research/learned work in Humanities and Social Sciences.	2nd 2,300
The American College, Madurai.	College Science Improvement Programme - Selected Colleges Project Grant-in-aid.	2nd 80,000
-do-	Teacher Fellowship Programme in the Department of Inorganic & Physical Chemistry - Indian Institute of Science, Bangalore - Special assistance Programme - Payment of substitute teacher's salary - release of 'on account' grant - reg.	5,201.
Sarah Tucker College Tirunelveli.	College Humanities & Social Sciences Development Programme. - Payment of grant.	15,000 4,49,701,

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Madurai University (contd.)

Affiliated Colleges (contd.)

Lakshmi Teachers Trng. College, Madurai.	Financial Assistance to Teachers for research/learned work in Humanities and Social Sciences - Payment.	2nd	2,000
Holy Cross College, Nagercoil-2.	Students Aid Fund to colleges for the year 1976-77.		2,250
The American College, Madurai.	-do-		2,750
Arul Anandar College, Karumathur, Madurai Dt.	-do-		1,000
Alagappa Chattiur College of Engg. & Technology, Karaikudi. (Ramanathapuram).	-do-		376
Virudhanagar Hindu Nadars' Senthikumara Nadar College, Virudhunagar. (T.N.)	-do-		3,624
The Standard Fire Works Rajarataam College for Women, Sivakssi (T.N.)	-do-		750
Sree Devi Kumari Women's College, Muzhithurai (Kanyakumari Dt.)	-do-		,000
St. Mary's College Tuticorin.	-do-		2,250
Scott Christian College Nagercoil, Kanyakumari Dist.	-do-		3,250
Fatima College, Madurai.	-do-		2,750
Lekshmipuram College of Arts & Science, Neyyoor. (Kanyakumari Dt.)	-do-		1,298
Thiagarajar College of Engineering, Madurai.	Grants towards the loan of books - setting up of Book Bank during 1976-77.	1st	8,500
A.P. Arts College, Palni-	-do-	1st	4,000
Nadar Maharajana Sangam S. Vellaichary Nadar College, Madurai.	Establishment of Book Bank	Final	11,250

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Madurai University (Contd)

Affiliated Colleges (Contd.)

Ayyanadar Janaki Anmal College, Sivakashi.	Financial assistance to teachers in the universities and colleges for undertaking research or learned work in Humanities including Social Sciences/Sciences - Payment of first instalment of grant.	1st	1,000
-do-	-do-	1st	2,500
Sri Parssakthi College for Women, Gourtallam (T.N.)	-do-	"	500
-do-	-do-	"	500
-do-	-do-	"	500
-do-	-do-	"	500
-do-	-do-	"	500
-do-	-do-	"	4,500
-do-	-do-	"	1,700
-do-	-do-	"	500
-do-	-do-	"	500
Aditanar College of Arts & Science, Tiruchandur (T.N.)	-do-	"	1,000
-do-	-do-	"	500
M. College, Madurai	Financial assistance to teachers in the universities and colleges for undertaking minor research projects in Science - Payment of grant.		4,000
Viradnagar Hindu Madras S. Nadar College, Virudanagar.	-do-		4,000
Saraswathi Narayanan College, Madurai.	-do-		4,000

Total:

4,75,900

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51. Magadh University

Financial assistance to Teachers for research/learned work in Humanities and social sciences -	2nd	1,000
Grant-in-aid for the purchase of Library books & Journals - 5th Plan Basic grant.		1,00,000
Grant-in-aid towards purchase of equipment for the PG Departments of Humanities & Social Sciences.	1st	75,000

Affiliated Colleges

Anugarh Narain College, Anisabad-Patna.	Setting up of Book Bank in colleges during 5th Plan.	Final	3,000
S.N. Sinha College, Hawadah.(Bihar)	Financial assistance during V Plan period for development scheme - Construction of Men's Hostel.	2nd	35,000
Anugrah Narayan College, Patna.	Financial assistance to teachers in the universities and colleges for undertaking research or learned work in Humanities including Social Sciences/Sciences-	1st	3,800
A.M.S. College, Barh, Patna.	-do-	2nd	1,000
A.M.S. College, Barh, Patna.	-do-	2nd	790
Sardar Vallabhai Patel College, Bihar.	-do-	2nd	1,000

Total:	<u>2,20,590</u>
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52. Mahatma Phule Krishi Vidyalaya

Organisation of the XV Annual Convention of the Indian Society of Agricultural Engineers at Pune during Feb. 1977.	5,000
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Total:	<u>5,000</u>
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53. M.S. University of Baroda

Senior/Junior Research Fellowships/ Humanities including Social Sciences/ Research Fellowships in Engg. & Tech. Payment of contingency grant.	1,500
Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science - Payment of grant.	8,000
-do-	6,000
-do-	10,000
-do-	1,500
-do-	2,500
-do-	1,000
UGC Assistance for the research project entitled "Quarternary Geology and Geomorphology of Gujarat with special reference to coastal areas" by Prof. S.S. Merh, Head, Department of Geology, Faculty of Sciences, M.S. University of Baroda.	5,000
Establishment of the Centre for Degree Course in Pharmacy - Construction of building.	2,25,000
Construction of a building under the scheme of Introduction of 5 years Integrated Degree Course in Civil, Mechanical and Electrical Engg.	15,000
First National Congress of Parasitology to be held from 24-26 Feb. 1977 at Baroda.	5,000
Award of Fellowships sanctioned for the Fifth Plan period under Development Schemes.	40,000
Writing of University level books/ Monographs.	1,227
Organisation of Seminar on Mediaeval Archeology prior to organisation of short-term course in Archeology.	6,000

Total:	3,27, 727.32
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54. Marathwada University

Junior research fellowships in Sciences	1,780
UGC assistance for the research project	17,600
Award of Fellowships sanctioned for the Vth Plan period.	35,000
Financial Assistance to teachers	2,000
Allocation of Unassigned grant during the fifth Plan period.	11,998.82

Affiliated Colleges

DC of Commerce, Marathwada	Fifth Five year Plan -improvement of PG Studies	10,000
Govt. College of Education Marathwada.	Improvement of Teachers Training facilities	20,000
AVES Degloor College, Handed.	Students aid fund in the colleges.	1,750
D.S.College, Maharashtra.	do-	1,000
Arts & Commerce College, Maharashtra.	-do-	4,500
		<u>1,05,628.82</u>

55. Meerut University

Construction of 2 Readers & 4 lecturers Qrtrs.	13,434
Financial Assistance to teachers in the universities.	2,000
-do-	8,000

Affiliated Colleges

RSS D. College, Pildkhuwa Meerut.	Improvement of undergraduate educational facilities during Vth Plan.	3,000
-do-	-do- Ist	3,000

p.t.o.

Meerut University Contd.

DAV College, Meerut.	Research Fellowships in Science	900
BSM College, Roorkee	-do-	2,674
J.V.Jain College, Saharanpur.	Financial Assistance to teachers	4,000
MM College, Modinagar.	-do-	2,000
S.D.College, Muzaffarnagar.	-do-	3,000
Sanskrit College, Meerut.	-do-	4,000
A.D. College, Muzaffarnagar.	-do-	4,000
MM College, Ghaziabad.	-do-	4,000
Meerut College, Meerut.	-do-	4,000
S.D.College, Ghaziabad.	Improvement of undergraduate educational facilities.	25,000
NAS College, Meerut.	Award of Teacher Fellowship	1,17
MMH College, Ghaziabad.	-do-	2,25
SD College, Muzaffarnagar.	College Humanities and Social Sciences Development programme.	30,000
-do-	-do-	60,000
NRES College, Khurja	Research Fellowships in Sciences/Humanities	1,500
S.D.College, Muzaffarnagar.	Additional Grant for Book Bank	11,250
WL College, Ghaziabad.	-do-	2,613
D.N. College Meerut.	-do-	5,625
S.D.College, Ghaziabad.	-do-	7,031
SSV College, Hapur.	-do-	4,688

Meerut University (affiliated colleges) Contd.

D.N.Degree College, Book Bank Bulandshahar.		1,500
G.M.Mahavidyalaya, Saharanpur.	-do-	2,813
-do-	-do-	1,875
A.S.College, Lakhnauti	-do-	2,806
SMJN D.College, Hardwar.	-do- and Students Aid fund in the colleges	1,000
RSS D.College, Meerut.	-do-	396
DAV College, Muzaffarnagar.	-do-	3,888
NREC College, Kunurja	-do-	2,469
S.D.College, Muzaffarnagar.	-do-	2,231
KD College, Mawana	-do-	536
MM Modi College, Modinagar.	-do-	3,750
K.M.J. D.College, Khatanli.	-do-	1,750
		2,33,644.77

Mysore University

Field Training work in Geology	3,000
increase intake to post-graduate courses in Sciences subjects.	6,218.75
Purchase of Scientific equipment under the scheme for increase intake o students to PG Courses	5,000
Development of department of Teacher Education during IV Plan period.	70,000
Financial Assistance-to-teachers in the Univ.	4,000
-do-	8,000
-do-	8,000

Mysore University (Affiliated Colleges) Contd.

St. Agnes College, Mangalore.	Construction of Fern House	8,000
A.V. Kamalma College for Women.	Financial Assistance to Teachers	1,000
SSR College, Karnatak.	Students Aid fund to colleges	64.2
J.S.S. College Mysore.	Grants towards the loan of Books	4,200
S.V.S. College, Bantval	-do-	4,500
JJ Medical College, Davangere	Grants towards the loan of books	11,350
NE College Karnatak State.	-do-	4,500
SM College, Moodbidri.	-do-	594
SM College, Karnatak State.	Students aid fund to colleges	1,000
The National Inst tute of Engg. Mysore.	-do-	1,430
SJVP College, Barihar.	-do-	750
GD College, Suratkal	-do-	1,000
K*Colloge, Mysore.	-do-	2,250
M.College, Ariskere.	Establishment of Book Bank Scheme.	1,349.94
S.M. College. Moodbidri Karnatak.	Establishment of Book bank Scheme.	3,000
		1,49,784.69

57. Nagpur University

The mother & the Supermental manifest- ation on the Earth.	2,000
Award of teacher fellowship	2,675
Purchase of Scientific equipment	5,00,000
Award of fellowships sanctioned for	40,000
	p.t.o.

Nagpur University (contd.)

Payment of fellowship and contingency grant	1,800
-do-	3,100
-do-	3,300
-do-	3,300
Construction of building for the development of teachers education in the	60,000
Grant-in-aid for the construction of students home in the university.	39,000
Financial assistance to teachers for research work.	2,000
-do-	1,250
Payment of fellowship and contingency grant	3,286.67

Colleges

L.N.I of Technology Nagpur.	Utilisation of services of outstanding retired teachers	2,000
P.P. College of Education, Gondia (M.S.)	Students aid fund in the colleges	572/-
T.N. College Hump-Yard-Road, Nagpur.	-do-	1,640
Hislop College, Nagpur.	-do-	1,242
Bha Ratiya Mahavidyalaya, Agrevati.	-do-	366/-
N.H. College, Brahmpuri (Chandrapur)	-do-	644/-
Shri Shivaji College, Distt. Akola (Maharashtra)	-do-	200/-
Hislop College, Nagpur.	-do-	1,242
S.P.N Art & Commerce, College, Buldana (M.S.)	-do-	318/-

Contd-----

Nagpur University(Contd)

Mehkar's Education Grant to Collge Libraries for lone of books Societies Arts and to students(Book Bank) 6,000
 Commerce Collge,
 Mehkar(M.S.)

J.K.U.M,
 Maklapur(Buldama(M.S)) -do- 4,500

D. Collge of Physics
 education A garwati
 (M.S.) -do- 8,000

Dr. A.C. of Arts &
 Seicne, Chandrupur(M.S.) -do- 6,000

G.N.Collge of Science
 Ballarpur (M.S.) -do- 4,500

M.S.S. Institute of
 Social work Nagpur(MB) -do- 1,000

Shri Shiveji Collge,
 Arts Commerce & Law
 Agarvati(M.S.) -do- 3,000 -
7,00,035,6

58. North Bengal University

Raja Ramchunpur, U.G.C. Assistance for the research project 7,800
 Distt. Darjeeling. entitled.

Grant-in-aid for the establishm nt of 20,000
 health centre.

Financial Assistance to teachers in the
 universities and collges for undertaking 2,500
 minor research projects in Science.

Unassigned grant for the year 8,000

Affiliated Colleges

St. Josephs Collge, Students Aid Fund in the Collges 1,750
 P.O. North Point,
 Darjeeling(W.B)

Alipurduar Collge,
 Alipurduar Court,
 Distt, Jalpaiguir(WB) -do- 2,704

Darjeeling Govt Collge,
 Darjeeling(W.B) -do- 5510-

23,305

North Eastern Hill University

U.G.C. Assistance for the research project Entitled.	9,200
National Associateship Scheme	1,200
U.G.C. Assistance for the research entitled	19,600
Publication of learned work	5,000
	35,000

Osmania University
Hyderabad.

Development of Botanical Gardens.	1,000
Utilisation of Services of Outstanding retired teachers	274.19
-do-	9,000
Unassigned grant for the year	15,000
Basic grant for purchase of Equipment	50,000
Organisation of Seminar on	24,000
Award of junior fellowships in Engg.	1,600
Financial Assistance to teachers for research work.	1,750
U.G.C. Assistance for the research projects entitled.	17,000
Financial Assistance to teachers in the universities and colleges for undert	8,000
-do-	1,600
-do-	5,000
U.G.C. Assistance for the research project entitled.	54,000
-do-	5,500
-do-	60,200
Financial Assistance to teachers for research work.	1,000

Contd.....

Osninia University(centd)

Affiliated Collages

N.S. Collge, Hyderabad.	Financial Assistance to teachers in the universities and collges for undertaking minor projects in Science.	-- 6,000
Govt. Collge, for Wocmn, Begumpet, Hyderabad.	Students Aid Fund in the colleges	-- 654
S.N.P Arts & Science Collge, Vikarabad, Hyderabad)	-do-	494
Govt. Collge for Women Begumpet, Hyderabad.	-do-	654,
K.M. Collgo, Warangal(A.P)	-do-	2,185
N.M?Arts and Science Collge, Jogipet (Maddak Distt) A.P.	-do-	552,
V.V.E. Collge of "Bank Bank" Arts Gowliguda, Hyderabad.		3,250
N.S. Collge, Hyderabad.	-do-	3,250
B.C. of Commerce & Arts(Evening) Hyderabad.	-do-	4,000
B.C. of Commerce & Arts (day) Hyderabad(A.P.)	-do-	5,000
		2,80,963.19

60. Oriss University of
Agriculture & Technology,
Bhubaneswar.

Grant-in-aid towards the employment of trained coaches.	21,264.9
	21,264.9

Contd.....

Punjab University

Support for advanced research in the humanities and Social Sciences:	2,500
Award of National Scholarships	45,000
Centre of advanced study in Mathematics	24,826
Programme of Special Assistance to Selected departments.	15,000
Purchase of equipment for humanities	1,00,000
Re-use of Basic grant for the year 76-77.	50,000
Financial Assistance to teachers in the universities and colleges for undertakings research work.	4,900
-do-	2,000
-do-	1,500
-do-	2,000
-do-	2,600
Introduction of Correspondence Courses in the Punjab University.	75,000
Financial Assistance for the development of Museum and Audio-Visual Aids in the Univ.	15,000
Award of Scholarship for L.L.M. Courses.	3,000
-do-	3,000
-do-	3,000
-do-	3,000
-do-	3,000
-do-	3,000
-do-	3,000
-do-	3,000
Assistance to Universities towards field training in Geology.	2,100

Contd.....

Punjab University(Contd)

Senior/Junior Research fellowship in Science 2,622.
Humanities including in Engineering.

-do- 2,532.

Centre of Advanced Study in Mathematics 2,86,500

National Fellowship Award to Prof. R.P.Bombah,
department of Mathematics 414.1

Affiliated Collges

D.A.V College, Chandigarh. Payment of substitute teachers' Salary 3,307.9

D.M. College, Monga. -do- 5,274

G.H.G. Khalsa College, Gursar Sadhar(Ludhiana) -do- 3,798

D.M. College, Moga(Punjab) Construction of Library Building 10,000

D.A.V College, Chandigarh. Teacher Fellowships programme in the department of Chemistry. 6,860.9

Govt. College, Chandigarh. Utilisati n of Services of outstanding retired teachers. 6,185.4

H.N. Collgen Hayana(Hoshiarpur) Book Bank 1,875

G.N. College of Girls(Punjab) Students Aid-Fund in the College, 1,000

G.H.G. K. College, Gurusar Sadhar(Ludhiana) -do- 1,750

7,08, 546.31

62. Punjabi Univ Ersity,
Patiala

Award of Teacher Fellowship 2,116.6

Improvement of existing Hostel facilities in the Univ. 2,000

Contd.....

Punjabi University (Contd)

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science. 6,000

-do- 4,000

Financial Assistance to teachers for research work. 1,625

Affiliated Colleges

Govt. College of Education, Patiala, Punjab) Book Bank 1,500

L.M.M.D. College, Student Aid Fund in the college. Patiala (Punjab) 3,250

10,491.67

Punjab Agriculture University, Ludhiana

Financial Assistance to teachers in the Universities and colleges for undertaking minor research projects. 6,000

-do- 5,000

-do- 2,000

-do- 2,000

-do- 3,500

-do- 1,000

-do- 1,500

21,000

Patna University

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science. 4,000

-do- 2,661.29

Junior/Senior research fellowships in Sciences/Humanities including social fellowships in Engg. 2,648.39

Payment of fellowship and contingency grant. 2,700

65. Patna University(Contd)

Award of Teacher Fellowship	1,822.50
Grant-in-aid towards purchase of equipment	1,00,000
Purchase of Books & Journals	2,50,000
Payment of Fellowship	900
	<hr/>
	3,64,732.2

66. Poona University

Award of Fellowships sanctioned	35,000
UGC Assistance for the research projects entitled.	4,800
Full-time L.L.M. Scholarship payment	3,000
Award of research full time L.L.M. Course	3,000
Financial Assistance to teachers in the universities and colleges for undertakings minor research projects in Science	3,000
-do-	1,500
College Science improvement programme	1,00,000
Support for advanced research in the Humanities and social science.	7,000

Affiliated Colleges

D.C. Post-graduate & Research Associateship in Science Research institute, including social and Engg. Poona.	4,348.30
S.S.V.P. S Arts & College Humanities and social Science M.F.A. Abdulali Commerce College,Dhulia(Maharashtra)	35,000
G.I. of P & E Utilisation of Services of outstanding retired teachers Poona.	1,095.50
Shri.S.C. M College, Student aid fund in the colleges. Kopergaon(Ahmednagar)	1,750
Law College, Poona.	-do-
	2,682
M.C. of Arts, Science & Commerce Chivajinagar(pune)	-do-
	689

Poona University (Contd)

M.C of Arts , Science & Commerce Poona	Students Aid Fund in the colleges	1,688
New Arts & Commerce College, Ahmednagar.	-do-	1,911
Ahmednagar College, Ahmednagar(M.S.)	-do-	4,083
College of Education, Talgaon(M.S.)	-do-	255,
Pilok College of Education, Poona.	-do-	410
J.W. College of Commerce, Poona.	-do-	2,131
Mac College, Poona.	Grant to colleges libraries for loan of books to students	14,000
		2,27,342.89

Chandrabharati University

Grant-in-aid towards the purchase of library
books & Journals.

30,000

Punjab University

Award of Teachers Fellowship	2,583.33
Proposal for holding Akhil Bhartiya Hindi Workshop on political Science	3,000
Financial Assistance to teachers in the Universities and colleges for undertaking minor research projects in Science.	2,000
-do-	1,500
-do-	2,000
-do-	1,500
-do-	1,500
-do-	2,500

Contd.....

Rajasthan University (Contd)

Financial Assistance to teachers in the universities and colleges for undertaking minor research projects in Science. 2,500

-do- 2,000

-do- 1,500

-do- 4,000

-do- 4,000

U.G.C. Assistance for the research projects entitled: 35,300

Award of Fellowships sanctioned for 35,000

Support for Advanced research in the humanities and social Sciences. 2,000

Senior/Junior research Fellowships in Science Humanities including in Engg. 1,500

Financial Assistance to Teachers for research work. 2,750

-do- 2,200

Financial Assistance to teachers in the universities and colleges for undertaking research work. 4,000

Continuing Schemes of the 2nd and 3rd five year plan. 945,

-do- 5,288.18

Award for Teachers Fellowship 2,000

-do- 2,058.33

Financial assistance to Teachers for research work. 2,250

Affiliated Colleges

Govt. College, Kota. College Science Improvement Programme 70,000

Govt. College, Kota. Support for advanced research in the humanities and social Sciences. 2,500

S.G.N. K. College, Sri. Ganganagar (Raj) Student Aid fund in the colleges 2,250

Rajasthan University (Contd) M.R.E College, Jaipur.	Award of Teachers Fellowship	2,133.33
-do-	-do-	1,733.87
Govt. College, Jaipur (Rajasthan)	Construction of Laboratory building under	80,000
-do-	College humanities and social Science Development programme.	38,753.97
R.C. College of Education, Ajmer.	Utilisation of Services of outstanding retired teachers.	4,177.42
Govt. College, Priganjanagar (Raj)	Release of financial assistance for the construction	37,215
S.D. College, Beswar (Raj)	Financial Assistance to Teachers for research work in humanities and social Science.	200
Govt. College, Bhajpura (Raj)	Improvement of undergraduate educational facilities	10,000
L.B.S. College, Jaipur.	Utilisation of services of outstanding retired teachers	2,000
S.D. Govt. College, Beswar (Rajasthan)	Organisation of the VIII conference of the Rajasthan Economics Conference to be held.	2,000
Govt. College, Kota (Raj)	Financial assistance to teachers in the universities and colleges for undertaking research work.	2,000
Govt. College, Kota (Raj)	Setting up bank Bank	4,750
Govt. Girls College, Bhartpur (Raj)	Student Aid Fund in the Colleges	1,000
J.L. Institut of Education, Ajmer	Grant towards the loan of books	6,000
M.M. T.M. College, Udaipur (Raj)	Grants to colleges/libraries for loan of books.	15,000
J.L.N.M. College, Ajmer	-do-	8,000

4,23,588.43

Contd.....

59. Ranchi University.

-70-

Grant-in-aid towards purchase of furniture	5,000
Construction of Animal House	40,000
Organisation of Annual Conference	5,000

Affiliated Colleges

Women College, Ranchi.	Construction of Science Block release of Final Grant.	50,000
Gunla College, Gunla (Bihar).	Book Bank	3,250
B.S.M. College, Lohardaga (Bihar)	Book Bank	1,500
J.W. College, Sakchi, Jamshedpur Bihar.	Book Bank	3,000
-do-	-do-	3,000
G.L.A. College, Daltongaj Bihar.	Student Aid fund in the colleges	1,750
Siniega College, Siniega, Ranchi.	-do-	750
J.L.N. College, Cheradherpur (Singhpurn)	-do-	740
		1,13,990

Ravishankar University

	Award of Fellowship Sanctioned	35,000
C.D.J.R. M, Raipur (M.P.)	Student's Aid Fund in the Colleges.	530
C.M.D. Post-Graduate College, Bilaspur (M.P.)	-do-	4,250
Chattishgarh Post-Graduate College Raipur (M.P.)	-do-	1,000
D.Science Arts And Commerce College, Dhantiri, Raipur.	-do-	746
Govt Post-Graduate College, Ambikapur.	-do-	2,250
Govt. G.D. College, Raipur (M.P.)	Financial assistance to teachers in the universities and colleges for undertaking research work.	500
		44,276

Rohtak University and Colleges

-71-

Vaish Collge of
Education, Rohtak
(Haryana)

Students Aid Fund in the college
Grant for 1976-77.

750

750

Rohil Khand University
and Colleges

G ovt P.B. College,
Kanpur(U.P.)

Financial Assistance to teachers
for research/learned work in
humanities and social Sciences-
Payments of Social instalment of
grant.

400

S.B.D. Mahila
Mahavidyalaya,
Dhanpur(Bijnor)
(U.P.)

Grant to a ffiliated colleges for
the development of undergraduate
educational facilities during the
fifth plan period- Purchase of
laboratory equipment.

1,500

S.B.D. Ma hila,
Mahavilyalaya,
Dhanpur(Bijnor-U.P)

Grants to a ffiliated colleges for
the development of undergraduate
educational facilities during the
fifth plan period Purchase of books
and journals.

2,000

3,900

Roorkee University

Fiencial Assistance to teachers for
research/learned work in sciences

825

Financial Assistance to teachers in
the universities and collges for
undertaking minor research projects
in Science.

5,000

-do-

5,000

Award of Teacher Fellowship

1,975.81

12,800-81

Contd.....

74. Sambalpur University

	Grant in aid towards the construction of lib. books	fund 1,00,000
	Grant in aid towards the salary of the staff	7,750
	Conference on the Educational Thoughts of the mother	2,000
Affiliated Colleges.	Award of Teachers Fellowship \times	2,282.26
RE College, Rourkela		
DAV College, Balangir	Financial assistance to teachers in the univ.	2,000
Govt. College, Orissa.	Purchase of Books and Journals	45,000
P. College, Orissa.	-do-	50,000
G.M. College, Sambalpur.	Grant for setting up Book Bank	8,000
R. College, Balangir.	-do-	1,750
G.T. College, Sambalpur.	Sanction of grant for the Students aid fund	750
G.M. College, Sambalpur.	Book bank.	6,500
		2,26,032.26

75. S.P. University

	Allocation of unassigned grant for UGC unit	13,500
	Award of Fellowships sanctioned for the V Plan	25,000
	UGC assistance for the research proj.	18,600
	Seminar on Home Science & Child Nutrition.	643.60
Affiliated Colleges.		
TV P. A College, V. Nagar.	College Humanities and S. Sciences Development	20,000
MAA College, Gujarat.	College Humanities and Social Sciences. Development programmes.	30,000
BB Mahavidyalaya, VV Nagar.	Grant to college libraries for loan	11,250
Commerce College, Anand	Students aid fund in the colleges.	1,542
HMP Institute of Eng. Gujarat.	-do-	712.
		1,21,247.60

Saugar University

Award of teacher fellowship to Lecturer in Physics	1,903.23
Financial Assistance to teachers in the universities	2,000
Utilisation of services of o/s retired teachers	6,161.29
Research fellowships in Engineering & Tech.	3,200
-do-	3,240
-do-	1,500
Award of fellowships sanctioned for the fifth plan	40,000

Affiliated Colleges

G.D. College, Pipariya.	Financial assistance to affiliated colleges for the Book Bank	7,500
Arts and Commerce College Babra. (M.P.)	Students aid fund in the colleges	750
-do-	-do-	1,000
G.P.G. College, Madhya Pradesh.	Financial assistance to teachers in the universities	1,000

68,284.52

Saurashtra University

Award of Fellowships sanctioned for the Fifth Plan	35,000
Allocation of Unassigned grant and grant for 75-76	15,000

Affiliated Colleges

M.P.S.M. College, Jamnagar.	Grant to College Libraries for loan of Books	8,000
KKPC College, Gujarat.	Students aid fund in the colleges.	365
S.M.P. S. Commerce, & Law College,	-do-	1,500
SA College, Gujarat.	-do-	1,416
PDM Graduate Teacher Gujarat.	-do-	1,120
MTK P. A. College, (Gujarat)	-do-	500
MJ College of Commerce, Gujarat.	Financial Assistance to affiliated colleges	-6,000

68,901

78. South Gujarat University

Grant for the purchase of Library books and journals	1,00,000
Award of Fellowships sanctioned for the Fifth Plan	15,000

Affiliated Colleges.

SVR College, Gujarat.	Students aid fund in the colleges.	1,272
B.P. BARIA SCE Institute Gujarat.	-do-	590
Comerce College, Gujarat.	-do-	962
PR Bros Commerce College, Surat.	-do-	1,279
Govt. Arts and Sec College, Daman.	-do-	750
Govt. Medical College, Surat.	-do-	177
S.C.D.B. College, Surat.	-do-	675
G.A. & Sec. College, Gujarat.	-do-	4,500
DIL College, Gujarat.	-do-	7,500
Comerce College, Baroch Gujarat.	-do-	6,000
HKM Sec. College, Valsad.	Book Bank	1,500

1,40,205

79. S.N.D.T. Womens University

Grant for the purchase of Books	50,000
Award of Fellowships sanctioned for the Vth Plan	25,000
Grant for the purchase of Books and Journals	80,000
Apptt. pf additional staff	12,000

Affiliated College.

Gandhi Mahila College, Gujarat.	College humanities and Social Sciences Development	32,000
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1,99,000

30 Sivaji University Kolhapur.

Financial Assistance to teachers in the universities	1,500
Award of Fellowships sanctioned for the Vth Plan	35,000
Allocation of Unassigned grant for 76-77	7,500
Fellowships in Engg. & Tech.	1,500
-do-	2,841.94
Grant in aid for furniture and Books	24,000
Grant to College Libraries	6,000

Affiliated Colleges

Dr. V.M. College, Students aid fund in the colleges.		1,750
sholapur.	-do-	
College of	-do-	3,250
Commerce	-do-	
S.College,	-do-	1,600
Karad.	-do-	
RR R Mahavidyalaya	-do-	1,000
Sangli.	-do-	621
M Mahavidyalaya,	-do-	
Kolhapur.	-do-	120
S.M.T. College,	-do-	
of Education	-do-	
Kolhapur.	-do-	
New College,	-do-	3,250
Kolhapur.	-do-	
SRCollege,	-do-	1,208
Kolhapur.	-do-	
D.C. College,	-do-	2,288
Kolhapur.	-do-	
EP Sulekha College,	-do-	
M.S.	-do-	
R.C. S. College,	Book Bank	3,250
Kolhapur.	Book Bank	1,500
Arts & Commerce	Book Bank	
College,	Book Bank	1,678
(M.S.).	Book Bank	
Sce College,	Book Bank	
Karad.	Book Bank	1,000
IR C College,	Book Bank	
Khatav.	Book Bank	

1,06,856.94

81. S.V. University

Development of under graduate courses in Electric Engg.	20,000
Purchase of Computer Time- Sri V. University.	25,000
Construction of Building for the Institute of correspondence courses.	1,00,000
Award of Teacher Fellowship to Shri DVS Sastri	2,550
Development of Area Studies Programme	4,700
Setting up of Employment information Cum-Advisory Bureaux in Universities.	4,752
Holding a colloquium between University Teachers of Philosophy and Traditional Pandits.	10,000

Affiliated Colleges.

S.V. Arts College, Students aid fund in the colleges Tirupati.	1,600
-do-	797
Government College for Women.	1,620
Govt. College, Chittoor.	1,008
	<u>1,72,027</u>

82. Udaipur University.

National Associateship Scheme	1,000
Full Time LIM Scholarship Payment.	3,000
-do-	3,000
-do-	2,000
Financial Assistance to teachers in the university	4,000
-do-	2,000
-do-	1,500
-do-	1,500
-do-	1,500
Award of Teacher Fellowship	1,000
-do-	25,000
UGC assistance for the research project	1,25,000
-do-	10,000
Award of Teacher fellowship	1,000
Writing of university level books	1,500
	<u>1,81,000</u>

VIKRAM UNIVERSITY

Salary of staff	1,00,000
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Release of grant for the purchase of Books and journals.	15,000
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salary of staff approved	90,000
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Release of grant for the purchase of Scientific Equipment.	1,50,000
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...bjnco

Assistance towards undertaking scheme on Bhoja's Sanskrit works.	25,000
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Financial Assistance to teachers in the universities and colleges for undertaking minor research project in Science.	3,000
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Grants for support of Research in the Universities	25,000
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Award of fellowship sanctioned for the fifth plan period	25,000
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Award of teachers fellowship to lecturers in Zoology	2,683.33p
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College science Improvement Programme	80,000
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AFFILIATED COLLEGES

M.V. Mahavidyalaya, Ujjain.	-do-	80,000
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S.K.P.G. College, Dewas.	Development of undergraduate colleges	20,000
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G.M. Mahavidyalaya, Meeruch.	Students aid fund in the colleges grant	1,000
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J.N.S.G. College, Shujalpur.	-do-	1,000
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Govt. College, Barwani.	-do-	1,566
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Shri J.L.N.V., Mahavidyalaya, Mandsaur.	Grant to colleges libraries for loan of Books bank	4,450
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M Mahavidyalaya, Ujjain	-do-	7,000
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6,30,699,33

84. Utkal University

Support for advanced research in the Humanities	15,000
Organisation of the All India Science Congress	10,000
Psychology Department Participation under the UGC programme.	10,000
Teacher Fellowship	1,646
-do-	2,589
Purchase of equipment for the Establishment of Educational Wing for the Department of psychology.	10,000
Organisation of national conference	3,000
Holding of First National Convention of the Helminthologists.	3,000
Construction of science labs during Vplan period	30,000
Construction of Staff Qrs.	20,000
Purchase of books and journals	10,000
Purchase of Lab equipment	30,000
Purchase of Lab. equipment	30,000
Award of teachers fellowship to Lecturers	3,250
Financial Assistance for the purchase of Library books and journals.	15,000
Construction of Library building	60,000
Financial Assistance to Teachers for research work	2,000

AFFILIATED COLLEGES

Anandpur College, Students fund in the colleges	750	
Anandpur.		
Sali pur College, Book Bank	1,500	
Sali pur.		
Govt. Evening College, Cuttack.	-do-	4,000
-do-	-do-	3,250
Shaligbala College, Cuttack.	-do-	3,250
R.D.W. College, Bhubneshwar, Financial Assistance to teachers		1,000

2,69, 236.0

5. VISVA BHARATI UNIVERSITY

Shantinikaten (WB) Award of teacher fellowship to lecturers	2,306.45
Financial Assistance to teachers	6,000
-do-	6,000
-do-	6,000
-do-	1,000
-do-	1,000
-do-	1,000
Utilisation of services of O/S retired teachers	2,000
Grant-in-aid for purchase of books and journals	1,000
	<hr/>
	26,306.45
	<hr/>

Institutions deem to be universities

1. <u>B.I.T.S., Pilani.</u> Intro duction of P.C.course and tech. final	24,000
Publication of research learned work including Doctoral theses.	2,500
	<hr/>
	26,500
	<hr/>
2. <u>Central Institute of English & Foreign language, Hyderabad.</u>	
Award of teacher feblowship to Shri D.R.Jalota,	241.94p
Setting up of a cell for the organisation of Summer Institute in English at Hyderabad.	7,521.60p
	<hr/>
	7,763.54
	<hr/>
3. <u>Gujrat Vidyapeeth, Mandabad.</u> Construction of the 1st floor of the experimental basis School. Golden Jubilee Grant	10,220
-do-	6,972
Drilling of Tube Well-Golden Jubilee Grant	2,993
	<hr/>
	20,185

INDIAN INSTITUTE OF SCIENCE, Centre of advanced study in Bio chemistry Bangalore		4,50,000
Organisation of workshop on futurology/technology		15,000
Equipment as Central facilities (fifth Plan grants)		1,00,000
Sanction & release of funds for purchase of books & journals		3,50,000
Research fellowship in engineering & technology Payment of contingency grant.		1,00,000
Writing of university level books		1,00,000
Establishment of schools of automation at the institute		11,00,000
Support for research in sciences		3,00,000
UGC Assistant for the research project		43,700
-do-		29,600
-do-		1,05,500
-do-		55,100
Revision in rates of scholarships in engineering and technology		5,00,000
Financial Assistance to teachers		5,00,000
Fifth Plan Grants Campus Development completion of periphery well and augmentation of water		5,00,000
-do-	(First)	2,00,000
-do-	(First)	30,000
-do-	(First)	1,00,000
-do-	(First)	30,000
-do-	(Final)	3,00,000
-do-	(First)	2,50,000
-do-	(First)	50,000
"	(First)	30,000
"	(First)	5,00,000

Indian Institute of Sec. Bangalore. (Contd)

Fifth Plan Grants Campus Development completion of Periphery well and augmentation of water.	Ist	5,00,000
-do-	"	20,000
Organisation of a course on Recent advances in Physical met.	"	12,000
Fifth Plan Grant Equipment as a Central facilities		5,00,000
		<hr/> 60,77,900 <hr/>

5. Indian School of Mines, Dhanbad.

Library Books during fifth plan	IIInd	1,20,000
Award of Teachers Fellowship		2,016.67
Fifth Plan allocation alterations to existing Building		5,20,000
		<hr/> 6,42,016.67 <hr/>

6. Jamia Millia Islamia

Students aid fund 1976-77		3,000
Unassigned grant for the year 76-77		8,325
Financial Assistance to teachers		6,000
-do-		6,000
Jr/Sr. Research Fellowships		1,500
		<hr/> 24,825 <hr/>

Tata Institute of Social Sciences.

Purchase of Library Books & Journals		30,000
Award of teacher Fellowship		1,000

INSTITUTIONS OF NATIONAL IMPORTANCE.

31,000

Indian Institute of Tech, New Delhi.

Award of Teacher Fellowship		1,669.35
-do-		1,677.42
-do-		1,000
		<hr/> 4,346.77 <hr/>

p. t. o.

2. Indian Institute of Technology, Kanpur.

Award of Teacher Fellowship Lecturer in Physics,	1,790.
	1,790

Total Plan =	2,82,53,130
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NON-PLAN

1. Central Institute of English & Foreign Languages.

Grant in aid for the Non Plan for 76-77	9,00,000
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2. Indian Institute of Science, Bangalore.

Payment of additional Dearness allowances to the employees of II of Scs.	8,89,000
	8,89,000

3. Delhi University

Affiliated Colleges.

RTR College, New-Delhi.	Maintenance Grant for 76-77	6th	20,000
L.B. College, Delhi.	--do--		5,97,000
K.M. College, Delhi.	--do--		4,05,000
C.I. of Education Delhi.	--do--		5,61,000
Miranda House, Delhi.	--do--	4th	5,61,000
Lady Irwin College, New Delhi.	--do--	4th	3,75,000
S.L. College, Delhi.	--do--	4th	1,84,000
DB. College, New Delhi.	--do--	5th	1,94,000

Delhi University (Affiliated Colleges) Contd.

S.R.College of Commerce, Delhi.	Maintenance grant for 76-77	Payment of	4th	2,14,000
Malindi College, New-Delhi.	-do-		4th	3,67,000
B.M. College, New Delhi.	-do-		4th	1,48,000
I.P. College, for Women. Delhi.	-do-		4th	5,59,000
RTR College, New Delhi.	-do-		5th	25,000
PGDAV College, New-Delhi.	-do-		4th	86,000
H.P. College, New Delhi.	-do-		4th	2,72,000
Hindu College, Delhi.	-do-		4th	5,08,000
SCTS Khalsa College, Delhi.	-do-		4th	6,04,000
H. College, Delhi.	-do-		4th	6,55,000
V.M. College, Delhi.	-do-		4th	2,41,000
Hans Raj College, Delhi.	-do-		4th	10,000
LS.R. College, New Delhi.	-do-		4th	11,000
I.P. College for Women. Delhi.	-do-		4th	9,700
S.R.College for Commerce, Delhi.	-do-		4th	6,700
RamJas College, Delhi.	-do-		4th	12,300
				66,25,700
				84,14,700
				3,66,67,830.96
				84,14,700
				3,66,67,830.96

UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 21st February, 1977

Item No.4 : To receive a statement showing expenditure incurred by the University Grants Commission during the year 1976-77 (upto 31-12-1976).

-:-

<u>Section I - Non Project</u>	<u>Revised Estimates 1976-77 (Rs. in lacs)</u>	<u>Provisional expenditure upto 31-12-1976 (Rs. in lacs)</u>
A. Administration Charges	68.31	49.23
B. <u>Block Grants</u>		
i) Grants to Central Univ.	1950.00	1601.89
ii) Grants to Instt. deemed to be universities	346.40	309.06
	++ 20.50	
iii) Grants to State Universities for specific purposes	9.00	4.00
C. Maintenance Grants to Delhi Colleges	828.00	676.99
		* 31.02
D. Grants not covered under Block Grants Health Service Scheme	8.00	-
Total Section-I	<u>3206.71</u>	<u>2641.17</u>
	++ 20.50	* 31.02
<u>Section II - Plan Projects</u>	<u>Budget Estimates 1976-77 (Rs. in lakh)</u>	
A. Grants to Central & State Universities for Humanities	372.00	318.11
		* 0.10
B. Grants to Central & State Universities for Science	735.00	307.97
		* 2.54
C. Grants to Central & State Universities for Engineering & Technology	@ 616.10	274.20
	+ 20.00	* 0.10
D. Grants to constituent/affiliated Colleges	462.00	166.35
		* 0.23
E. Grants to Central & State Universities for Misc. schemes	1767.45	461.52
	++ 19.65	* 0.69
F. Misc. Expenditure	31.30	20.86
Unesco Coupons	-	0.40
Total Section-II	<u>3983.85</u>	<u>1376.41</u>
	<u>32.65</u>	<u>3.66</u>
Total Section I & II	<u>-7190.56</u>	<u>4017.58</u>
	<u>60.15</u>	* <u>34.68</u>

Rs. 100.00 Lacs to be provided by the Deptt. of Coal during the year 1976-77.

+ Rs. 20.50 Lacs (under Non-Plan) & Rs. 19.65 Lacs (Under Plan) allocated by M/Edn. & S.W. for C.I.T.F.L. Hyderabad for the year 1976-77.

Rs. 20.00 Lacs sanctioned by Deptt. of Coal for B.H.U. (Mining & Engg.) for 1976-77

By adjustment

Section III - Expenditure out of grants received from Government of India and the other sources for specific purposes.

-:-
SCHEME UNDER OPERATION BY THE COMMISSION

A. <u>Out of Grants received from Ministry of Education & Social Welfare</u>	
i) Evaluation of Books	3,050
ii) Fellow for Writing of Books	2,10,363
	@ 59,645
iii) National Award of Prizes	@ 17,596
iv) National Service Scheme	@ 2,13,083
v) National Sports Organisation Programme (Continuing Scheme)	
a) Construction of Gymnasium	3,05,599
b) Play fields	1,48,276
B. <u>Out of grant from N.C.E.R.T.</u>	
i) National Survey on Higher Education	@ 1,01,686
C. <u>Out of grant from Gandhi Samarak Nidhi</u>	
i) Construction of Gandhi Bhavan in Universities	-
D. <u>Out of Interest received on Endowment Funds</u>	
i) Hari Om Ashram Trust Endowment Fund	-
a) Science	-
b) Life Science	-
ii) Dr. Zakir Hussain Memorial Lectures	3,884
iii) Shri Aurbindo Memorial Lectures	-
iv) Ram Charit Manas	-
Total Section-III	
	11,36,855

Total Section I, II & III 4028-95 (Rupees in lakh)

* 34-68

Section IV - Deposits & Advances

i) Conveyance Advance	13,415
ii) Festival Advance	6,400
iii) House Building Advance	1,89,317
iv) Fan Advance	100
v) UGC Deptt. Canteen	-
Total Section-IV	
	2,09,232

Expenditure during 1975-76 upto 31-12-1975 was as under :

(Rupees in lakh)

Section I Non-Plan Project	2146.47
Section II Plan Projects	1321.51
Total Section I & II	
	3467.98

@ Administration Charges

* By Adjustment

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

①

Meeting:

Date : 21st Feb., 1977.

Item No.5: To receive a statement indicating the progress of issue of utilisation certificates during the period ending 31st January, 1977

The Commission desired (Resolution No.5) dated the 12th May, 1975 that it should be kept informed of the progress of clearance of utilisation certificates after two months bringing the statement upto date i.e. upto 1973-74. The statement showing clearance of Plan & Non-plan items for the period ending 31st Jan., 1977 is given in Annexure.*

* p 2

Finance Officer

P.T.

(2)

OUTSTANDING UTILISATION CERTIFICATE
PLAN

Year to which pertains	Outstanding as on 26-11-76		Outstanding as on 1-2-77	
	No. of Items	Amount	No. of Items	Amount
1958-59	76	25.08	72	24.87
1959-60	118	31.91	107	28.48
1960-61	238	36.72	225	33.79
1961-62	402	97.76	391	96.43
1962-63	913	129.99	891	128.14
1963-64	1186	207.84	1174	204.35
1964-65	1782	211.42	1773	206.40
1965-66	2138	272.22	2121	263.68
1966-67	1969	276.93	1953	270.75
1967-68	2799	361.07	2780	358.34
1968-69	3348	386.04	3320	376.92
1969-70	5103	330.28	5083	328.23
1970-71	6293	969.39	6248	959.39
1971-72	7318	1153.80	7240	1130.94
1972-73	5683	1080.99	5584	1345.55
1973-74	4936	1219.96	4824	1152.64
Total:-	44302	7091.40	43786	6908.90

Item cleared - 516
Amount Cleared) Rs.182.50 lakhs

Non-Plan

Year to which pertains	Outstanding as on 26-11-76		Amount outstanding as on 1-2-77	
	No. of Items	Amount	No. of Items	Amount
1969-70	1	.80	1	.80
1970-71	-	-	-	-
1971-72	44	250.51	43	227.64
1972-73	37	614.23	31	334.16
1973-74	67	832.64	61	760.61
Total:-	149	1698.18	136	1323.21

Item cleared - 13
Amount Cleared - Rs.374.97 lakhs.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

3

Meeting :

Dated : 21st Feb., 1977.

Item No. 6. To consider the Feasibility Report prepared by the Bombay University on the Regional Instrumentation Centre.

At the meeting of the UGC (item 34) held on 14.7.1975 the Commission had agreed in principle to set up a Regional Instrument Centre (RIC) for the Western Region at the Bombay University. The Commission accepted the following recommendations of the Science Research Council :-

"The Science Research Council has recommended the acceptance of the proposal in principle and to provide initially a grant of Rs. 50,000/- to the University of Bombay to appoint a core staff of three persons (including 1 person at Professors level and the other two at Readers/Lecturers level) to prepare a feasibility report on the basis of a survey to be conducted with regard to the servicing functions, repair and maintenance functions and design and fabrication of new equipments functions to be taken up by the Centre. The feasibility report, which should be made available within a period of six months, and in no case later than 9 months, should indicate the phasewise discipline-wise, prioritywise as well as costwise aspects of the development of the Regional Instrumentation Centre. The University, for purposes of this feasibility report, may associate the expertise available in the Tata Institute of Fundamental Research, Bombay, Bhabha Atomic Research Centre and also the Department of Physics, Poona University. The feasibility report could then be considered by the Science Research Council and specific recommendations made with regard to the non-recurring and recurring expenditure that may be approved for the duration of the fifth plan period for the development of the Regional Instrumentation Centre. The university may provide the required secretarial assistance for the preparation of the feasibility report mentioned above by the core staff to be appointed for the purpose".

For this purpose the University secured the services of Dr. A.V. Patankar of the Tata Institute of Fundamental Research, and on the basis of a survey made of instruments in colleges and university departments, he has prepared the 'Feasibility Report' which the University has now submitted to the UGC (Attached) (Annexure I)*

* Copy of the feasibility report was sent with the Agenda papers of the January, 1977 meeting. The same may kindly be brought for this meeting.

(4)

As stipulated in the Commission's Resolution, this Regional Centre proposes to address itself to the following :

- i. Servicing & maintenance of large number of instruments in the universities of the region and in the affiliated colleges.
- ii. replacement of outdated experimental hardware by technologically superior and less expensive systems.
- iii. training and education of teachers and others from USICs in instrumental techniques, servicing, maintenance and repairs.
- iv. dissemination of information about instruments.
- v. R & D in instrumentation for modern teaching & research, and
- vi. expose the colleges and departments of the universities in the region to the culture of instrumentation and help in the growth of this culture in a sustained manner.

For the above purpose it has been proposed that the NIC should have the following :-

- (a) Mechanical workshop and its auxiliary services
- (b) Electronics shop
- (c) Glass blowing shop
- (d) Photography facility
- (e) Library, information & documentation facility on instrumentation.
- (f) Administrative and auxiliary services.

The financial implications of the proposal are given below :-

A. Capital (in lakhs)		V Plan	VI Plan	82-84
		1977-79	1979-82	82-84
Report Annexure III-3,9	(a) Mechanical shop	5.84	-	-
Report Annexure III-7	(b) Electronics shop	3.30	1.75	0.50
Report Annexure III-10, 11	(c) Glass Blowing Shop.	1.35	-	-
Report Annexure III-12	(d) Photography	0.15	-	-
Report Annexure III-13	(e) Library, information & Documentation.	2.10	2.30	1.50
	(f) Building 15000 sq. ft.	10.36	-	-
	air conditioning	1.00	-	-
	Furniture	1.14	-	-
	Total (A).	25.24	4.05	2.00

Recurring (in lakhs)	V Plan	VI Plan	
	1977-79	1979-82	1982..
Consumable stores	2.85	6.92	5.23
Travel & Incidentals	0.80	0.77	0.40
Contingencies	1.23	1.47	1.02
Total:	<u>4.86</u>	<u>9.16</u>	<u>6.62</u>
Total of A and B	30.12	13.21	8.62

Staff

- Scientific 20
- Technical 20
- Administrative & Auxilliary Services 17

In its report the Bombay University has indicated the phasing of its programme with the help of charts.

(a) It will address itself first to servicing and maintenance of equipment and this activity will reach its peak by the end of 1978-79 and will then decline as capability is generated in the USICs of the region and in some colleges.

(b) About the middle of 1977, RIC will start a vigorous programme of training for two years and this activity will taper off considerably after the V 5 year plan.

(c) It will undertake modernisation of experiments, starting with a modest beginning and building up to a peak in 1979-80.

(d) The information bulletin will be started in 1978-79.

(e) The R & D activity on instruments requiring complex technology will be started only towards the end of 1979.

It may be mentioned that the Department of Science and Technology is setting up several "sophisticated Instrument Centres" in which very costly modern instruments will be housed so that research institutions, including universities, and the industry can use their services. The proposed Regional Instrument Centres; such as the one in the Bombay University, will play a complementary role to the "Sophisticated Instrument Centres" in as much as they will build up capability within the University system not only for the proper maintenance, servicing and operation of such instruments but eventually undertake design and development of instruments involving highly complex technology.

As desired by the Commission the report was circulated to the members of the Science Research Council. The Comments received are given in Annexure II * will be seen from the comments that members have found the feasibility report well prepared and have recommended its acceptance. Dr. K. Sheshgiri, Director IGC, Electronics Commission, has stated that he has got it examined by competent persons who have recommended its acceptance. Dr. Rais Ahmed while commending its acceptance has raised certain questions of training in instrument technology in the 10+2+3 system.

The matter is placed before the Commission for consideration.

Comments received from the members of
the Science Research Council regarding
Feasibility Report on Regional Instru-
mentation Centre, Western Region.

⑥

The feasibility report on Regional Instrumentation Centre, Western Region, by Prof. Patankar is an excellent document which has been prepared after very careful study of the present laboratories in Colleges and Universities in the Western Region. It is very comprehensive and plans to develop into a R & D Centre for Instrumentation within the University sector. The financial out-lays proposed are to my mind modest and practicable. I recommend acceptance of this report in toto by the UCC.

- Professor P.K. Iyengar

I thank you for sending me a copy of the feasibility Report on Regional Instrumentation Centre (Western Region). I got this report examined by the officers of the National Automation and Control Programme (NACP) under the Electronics Commission. Their opinion is that the formation of a Regional Centre for instrumentation with adequate facilities and proper skilled manpower would help in overcoming the problems which the regional centre addresses itself to. These specialists are of the opinion that the project is well conceived and as such it should be funded by the University Grants Commission. I fully endorse their evaluation.

- Dr.N.Seshagiri

Thank you for your letter No.F.1-26/77(SRC) of 11th January, 1977 regarding the proposal for the setting up of a Regional Instrument Centre at the University of Bombay.

The only point which I would like to make is that there should be a coordination between this Centre and the DST sponsored RSIC which is being set up at the Department of Chemistry of the Indian Institute of Technology, Bombay.

- Dr.Nitya Nand

Many thanks for your letter of 11th January enclosing the 'Feasibility Report on Regional Instrumentation Centre'. I have gone through the report and find it an extremely valuable exercise. Accordingly I wholly agree with the report and hope the Commission will clear it at its next meeting.

- Dr.V.K. Gaur

7

I liked the Feasibility Report although the budget proposal is on the high side. We should certainly encourage them to set up this Centre with a slightly restricted scope. I do not think that we should build such a large institution and then find work for it. We should give a modest grant at this stage. Let them create sufficient work and responsibilities for themselves in the next year or two and then we can give a bigger grant. I am mentioning this because, the proposal involves recruitment of a very large number of staff members.

- Professor C.N.R.Rao

Thank you very much for your letter NO.F.1-26/77(SRC) dated 11th January, 1977 with which you have sent the report of the Bombay University Committee on Instrumentation. Unfortunately it reached me on the 19th of January, 1977. Since you want the reply by the 22nd of January, there is hardly any time for such an important matter. . . . However, my preliminary observations are as follows:-

- (1) That 25 to 30 per cent of equipment has been found by this committee to be out of order in a single region. The same may be the situation in all the regions. But I have a fear that they may be less fortunate than the Bombay region.
- (2) We have already seen reports that a committee under the ICMR has found that similar magnitudes of out of order equipment exist in medical colleges and hospitals. There is little doubt that the CSIR and its Laboratories would also have similar problems.
- (3) One of the glaring shortcomings of the whole system is the absence of technical cadre which the report has pointed out on pages 21 and 22. The analysis of the technical staff available for under-graduate and post-graduate laboratories also shows that for such a large number of equipment there is hardly any staff which has had technical training. M.Sc.s and B.Sc.s are practically non-existent but even those who have been trained in instrumentation at a lower level do not seem to be even 5 per cent. The ratio of academic staff to service staff in the CSIR I believe is of the order of 1:2.5. In the universities we do not have a fraction of that.

Therefore, it seems that we have a multi-billion rupee project on hand in the whole country. The problems can hardly be solved effectively by setting up a centre at one university in one region. I believe that the University Grants Commission should initiate in collaboration with the other concerned agencies the scheme of setting up really effective system on the same lines as suggested by the Bombay University Committee.

8

The report is very good in this respect and it should be followed up. I do not mean to say that it would be no use setting up a small venture in one place, all I am saying is let us not believe this will solve the problem.

Considering the vast amount of equipment which is out of order, estimating its cost and assuming that something like 10 per cent equipment is likely to go out of order under best of conditions one can easily visualise that the staff that would be required would run into thousands - both the technical staff at the site where the equipment is used and at the repair workshops.

The combination of a training activity with the repair activity is very welcome but I believe that there is a great opportunity to collaborate with the educational system in the country since it should be possible to train vocational people in the +2 level after high school for the lowest and the most numerous rung of the technical staff. On top of this there should be an effort to train B.Sc.s with a one or two year diploma in instrumentation for the next higher staff. If technical training is geared to a felt-need of the educational institutions themselves it will serve a double purpose and will lend credence to the 10+2+3 system also.

I, therefore, strongly advocate that the Commission should seriously examine the possibility of setting up repair centres and furnishing technical staff to institutions, while at the same time co-operating with the 10+2+3 system to train people in the vocation of first-level maintenance of scientific and technical instruments; this would be like training the first level medical worker.

- Professor Rais Ahmed

Thank you for your letter No.F 1-26/77(SRC) dated January 11, 1977 enclosing a copy of the Feasibility Report on Regional Instrumentation Centre for the western region. I feel the report has been well presented and justifies the establishment and operation of such a Centre. There is one observation that I would make in respect of personnel of RIC. The number of staff for administrative and auxiliary service seems to be unnecessarily high. The impression is one of a top heavy administrative structure which is not called for. For example, the number of clerical and class IV staff can well be curtailed.

With above comment I consider the report acceptable for consideration by the Commission.

- Dr. J.B. Chitambar

UNIVERSITY GRANTS COMMISSION

Meeting :

Dated :

Item No. 7 To consider references received from the Government of India, Ministry of Education & Social Welfare regarding the minimum qualifications laid down for recruitment to the post of lecturers consequent upon the revision of scales of pay of university and college teachers.

The Government of India, Ministry of Education & Social Welfare have intimated the State Governments of the following minimum qualifications for recruitment to the post of lecturers in the faculties of Arts, Social Sciences and Sciences consequent upon the revision of scales of pay as recommended by the University Grants Commission for university and college lecturers:

University Lecturers

- (a) A Doctor's degree or research work of an equally high standard; and
- (b) consistently good academic record with first or high second class (B in the seven point scale) Master's degree in a relevant subject or an equivalent degree of a foreign university.

Having regard to the need for developing inter-disciplinary programmes, the degrees in (a) and (b) above may be in relevant subject.

Provided that if the Selection Committee is of the view that the research work of a candidate as evident from his thesis or from his published work is of a very high standard, it may relax any of the qualifications prescribed in (b) above.

Provided further that if a candidate possessing a Doctor's degree or a equivalent research work is not available or is not considered suitable, a person possessing a consistently good academic record (weightage being given to M.Phil or equivalent degree or research work of quality) may be appointed provided he has done research work for at least two years or has practical experience in a research laboratory/organisation on the condition that he will have to obtain a Doctor's degree or give evidence of research work of equivalent high standard within five years of his appointment, failing which he will not be able to earn future increments until he fulfils these requirements.

Explanation : Candidates for being eligible for recruitment to the posts of Lecturers must have a 1st or high second class (B in the seven point scale) at the Master's level and for determining consistently good record, average of 50-55% or (B in the seven point scale) may be expected at the two examinations prior to the Master's examination.

(10)

College Lecturers

The minimum qualifications for recruitment of lecturers in above mentioned faculties in the Colleges are as follows:

- (a) A consistently good academic record with 1st or highest 2nd class (B+) at the Master's degree in a relevant subject or an equivalent degree of a foreign university; and
- (b) An M.Phil degree or a recognised degree beyond Master level or published work indicating the capacity of a candidate for independent research work.

Provided that if a candidate possessing the qualification as at (b) above is not available or not considered suitable the college, on the recommendation of the Selection Committee may appoint a person possessing a consistently good academic record on the condition that he will have to obtain an M.Phil degree or a recognised degree beyond the Master's level within five years of his appointment, failing which he will not be able to earn future increments till he obtains that degree or gives evidence of equivalent published work of high standard.

2. The Ministry of Education & S.W. on receipt of references from the State Governments/Universities/Teacher Organisations regarding the qualifications prescribed for appointment of lecturers as a result of the revision of scale of pay have sought the clarifications/comments from the Commission.

An extract from each of the communications received from the Ministry of Education & S.W. are reproduced below:

(1) "As you are aware, the scheme of revision of scales of pay of University and College teachers provides that:

"For future recruitment to the posts of lecturers in universities as well as in colleges, the minimum qualifications shall be as may be determined by the University Grants Commission from time to time".

On the recommendations of the Commission, this Ministry vide letters No.F.1-1/75-U.1 dated 20.2.1976 and No.F.1-12/76-U.I dated 21.7.1976 had communicated to the State Governments the minimum qualifications for recruitment to the posts of Lecturers in universities and colleges. For existing lecturers in colleges, the scheme, however, envisaged that:

"The existing lecturers in colleges who did not possess at the time of their initial recruitment minimum qualification as prescribed by the University concerned at the time of appointment should be required to attain these qualification within five years from the date of placement in the revised scale. If they are unable to do so during this period, they should not be allowed to earn any future increment till they have satisfied this condition".

In this context, the representatives of the All India Federation of University and College Teachers' Organisations, who met the Union Education Minister on November 25, 1976, had pointed out that the lecturers who are retrenched by the private management due to various reasons like discontinuance of certain courses or reduction in enrolment etc. and who do not possess the qualifications now prescribed for recruitment find it impossible to get fresh appointments elsewhere. They had, therefore, sought some relaxation in qualifications in the case of lecturers who were retrenched by the Managements and who are seeking fresh employment.

I shall be grateful if you could kindly have the matter regarding prescription of appropriate qualifications, possession of which should be essential by the lecturers, who are retrenched by the Private management, considered in the Commission and let us have the views early."

(2) It would be noticed that a candidate having good research work at his credit, even though he does not have a Ph.D. degree, can be appointed as Lecturer in Universities even without having a consistently good academic record with 1st or high 2nd class Master's degree if the Selection Committee so recommends. But the same candidate cannot be considered for appointment as Lecturer in college, since no such discretion had been allowed to the Selection Committee in case of appointment of college lecturers. As such the position appears to be anomalous. However, on a suggestion made by the Government of Uttar Pradesh, the Commission, vide its letter No.F.1-93/74(CD-CP) dated 5.7.1976 had agreed to provide for relaxation from the requirements of a consistently good academic record for Lecturers in Colleges, who possessed a Ph.D. degree, as in the case of University Lecturers. A copy of each of the communications No.3599/XV-10-76-60(115)/73 dated 4.12.1976 and No.11423/XV-10-76-60(115)/73 dated 15.12.1976 received from the Government of Uttar Pradesh pointing out some further inconsistencies in the matter of qualifications for university and college lecturers is enclosed. (Appendix I & II).

It is requested that after taking all relevant aspects into consideration, the matter may kindly be reconsidered by the Commission alongwith the question of determining the qualification of Professors and Readers in Universities and Principals in colleges, so that the State Governments could be addressed on the issue."

(3) The conditions of grant attached to the introduction of revised scales of pay of teachers of central universities inter-alia lays down the following condition regarding the age of superannuation of teachers.

"The age of superannuation for teachers as well as for Principals shall be 60 years and thereafter no further extension in service shall be given. A teacher who has already been given extension on attaining the age of 60 years on January 1, 1973 or thereafter shall continue to be in the old scale of pay during the period of extension and shall not be permitted to opt for the revised scale."

The Commission had also intimated the central universities though the age of superannuation of teachers shall be 60 years, it would however, be open to any university if it so desires to give reemployment to a talented teacher for a limited period beyond age of 60 years.

A question has been raised whether the revised scale of pay would be available to the persons who are appointed as ~~teachers~~ in the central universities after superannuation either from any other university or from government service. The Government of India was requested for a decision in the matter. The Ministry of Education have informed that they have been considering this in consultation with the Ministry of Finance. They have, however, asked for the view of the Commission on the following points to consider the matter further.

- a) Whether a teacher in a University/College who is re-employed and is fixed in the revised scale of pay will be expected to possess the qualifications prescribed by the UGC from time to time under the scheme of revised scales of pay?
- b) The UGC is assuming re-employment for a limited period of time, it may be indicated what is their intention in using this phase i.e. what is the maximum period for which a person can be re-employed is one or more than one spells.

(4) The Ministry of Education on a reference from the University of Bombay regarding the qualifications for the appointment of part time teachers in the faculty of law have asked for the views of the Commission in the matter. An extract of the letter received from the University of Bombay is reproduced below:

"Please refer to your letter No.F.1-29/75-U.I. dated 2nd December, 1975, addressed to the Secretary, Education Department, Government of Maharashtra, Bombay.

My Registrar has received a copy of the above mentioned letter. Para two of the letter mentions that the minimum qualifications for recruitment to the post of Lecturers in the Departments/Faculties of Law in the universities and colleges should be an LL.M. degree. In this behalf I would like to state that the Law Colleges have two types of Lecturers who are practitioners of law in the Law Courts. In the case of second category of Lecturers what is necessary is their experience in the Law Courts. Hence possession of LL.M. degree is not made compulsory. The Bar Council of India has also not made possession of LL.M. degree as compulsory for such Lecturers. I presume that the qualifications mentioned in your letter are to be insisted only in the case of full time Lecturers and not part-time Lecturers. This presumption may please be confirmed."

Part time
Lecturers and
time
Lecturers.

The matter is placed before the Commission for consideration on the following points:-

- (i) Relaxation in qualification for lecturers who are retrenched by the Private Managements due to various reasons like discontinuance of certain courses or reduction in enrolment, etc. who do not possess the qualifications prescribed by the Commission for recruitment to the post of lecturers on introduction of revised scales of Pay.
- (ii) The Selection Committee can relax the following qualification in the case of university lecturers but, no such relaxation is allowed in the case of college lecturers:-

"Consistently good academic record with first or high second class (B in the seven point scale) Master's degree in a relevant subject or an equivalent degree of a foreign university".

- (iii) a) Whether a teacher in a University/College who is re-employed and is fixed in the revised scale of pay will be expected to possess the qualifications prescribed by the UGC from time to time under the scheme of revised scales of Pay?
 - b) The UGC is assuming re-employment for a limited period of time; it may be indicated what is their intention in using this phase i.e. what is the maximum period for which a person can be re-employed in one or more than one spells.
- (iv) The minimum qualifications for recruitment to the post of lecturers in the departments/faculties of law in universities and colleges is L.L.M. degree. It is for consideration whether these qualifications would also be necessary in the case of Part-time lecturers appointed in the colleges who are practitioners of Law in the Law Courts.

The matter is placed before the Commission for consideration.

AS/DS(CP)

C O P Y

No. 8599/XV-10-76-60(115)/73

From

Shri H. S. Sodhi,
Deputy Secretary to
Government, UP.

To

The Secretary,
Government of India,
Ministry of Education and S. W.
(Deptt. of Education)
New Delhi.

Education(10)Section

Dated: Lucknow: Dec. 4, 1976

Subject:- Minimum qualifications for teachers of Universities
and Degree Colleges after revision of salary scales.

Sir,

I am directed to refer to the correspondence resting with the Ministry's letter No. F.1-3/74-U.1 dated July 24, 1976 where in the Ministry's decision was communicated that in case of recruitment of college Lecturers, the requirement of consistently good academic record with first or high second class (B+) Master's degree may be relaxed if the candidate possesses a Doctorate degree. Orders were issued accordingly. Representations have, however, since been made to the State Government that in case of recruitment to the post of a Lecturer in a University the Selection Committee can relax the requirement of consistently good academic record with first class or high second class (B+) Master's Degree in the subject, if it is of the opinion that the research work of a candidate, as evidenced by his published work, is of a very high standard, even if he does not possess a Doctorate Degree. Such relaxation is not given to a candidate if he applies for the post of Lecturer in Degree College. I am to request that the Ministry may kindly reconsider the matter and let the State Government have their valuable advice on the subject.

Yours faithfully,

si/-

(H. S. Sodhi)
Deputy Secretary

C O P Y

No. 11423/XV-10-76-60(115)/73

From

Sri H. S. Sodhi
Deputy Secretary to
Government, U.P.

To

The Secretary,
Government of India,
Ministry of Education and S.W.
(Deptt. of Education),
New Delhi.

Education (10) Section

Dated, Lucknow, Dec. 15, 1976

Subject:- Qualification for the post of Lecturers in Universities
and Degree Colleges.

Sir,

I am directed to say that in the Conference of the Vice-Chancellors of the State Universities held at Lucknow on December 6&7, 1976 one of the Vice-Chancellors pointed out that the minimum qualifications as prescribed for the post of University Lecturers in the Government of India letter No.F.1-1/75-U.1 dated February 20, 1975 include a clause for relaxation from certain qualifications. This clause is so worded as the Selection Committee can relax certain minimum qualifications including even M.A. Degree in the subject, if the candidate has published work of a very high standard to his credit without having Ph.D. degree. It is, thus, open for interpretation that a candidate who has a published work of very high standard to his credit can be appointed to the post of University Lecturer if he does not even possess M.A. degree in the subject. This does not perhaps seem to be the intention. I am, however, to request that the Ministry may like to consider this point and favour the State Government with their valued advice in this matter.

Yours faithfully,
S/-

(H. S. Sodhi)
Deputy Secretary

C O P Y

No. 8599/XV-10-76-60(115)/73

From

Shri H. S. Sodhi,
Deputy Secretary to
Government, UP.

To

The Secretary,
Government of India,
Ministry of Education and S. W.
(Deptt. of Education)
New Delhi.

Education(10)Section

Dated: Lucknow: Dec. 4, 1976

Subject:- Minimum qualifications for teachers of Universities
and Degree Colleges after revision of salary scales.

Sir,

I am directed to refer to the correspondence resting with the Ministry's letter No. F. 1-3/74-U. 1 dated July 24, 1976 where in the Ministry's decision was communicated that in case of recruitment of college Lecturers, the requirement of consistently good academic record with first or high second class (B+) Master's degree may be relaxed if the candidate possesses a Doctorate degree. Orders were issued accordingly. Representations have, however, since been made to the State Government that in case of recruitment to the post of a Lecturer in a University the Selection Committee can relax the requirement of consistently good academic record with first class or high second class (B+) Master's Degree in the subject, if it is of the opinion that the research work of a candidate, as evidenced by his published work, is of a very high standard, even if he does not possess a Doctorate Degree. Such relaxation is not given to a candidate if he applies for the post of Lecturer in Degree College. I am to request that the Ministry may kindly reconsider the matter and let the State Government have their valuable advice on the subject.

Yours faithfully,

si/-

(H. S. Sodhi)
Deputy Secretary

O.F.B.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :
Dated : 21st February, 1976

Item No. 3 To receive the recommendations of the Committee appointed to consider the question of establishment of a centre for Canadian Studies in India.

The Indian Advisory Council of the Shastri Indo-Canadian Institute at one of its meetings discussed the question of establishment of a centre for Canadian Studies in India. It was decided in the meeting that the Commission may set up a committee to study and formulate proposals about the project and send its recommendations to Shastri Indo-Canadian Institute for consideration of the Indian Advisory Council.

The University Grants Commission accordingly constituted a committee with the following members to consider the matter :

1. Prof. V.P. Dutt, Delhi University
2. Prof. Rais Ahmed, Director, N.C.E.R.T.
3. Prof. G.S. Bhalla, Jawaharlal Nehru University
4. Prof. Andre Beteille, Delhi University

The committee met on 13th October, 1976. The Resident Director, Shastri Indo-Canadian Institute, New Delhi also attended the meeting by invitation. A copy of the minutes of the meeting of the committee is attached (annexure)*

The main observations/recommendations of the Committee are given below :-

1. There is already a level of contact between Indian scholars and those in Canada and what is required is to develop these contacts into a systematic frame-work so that insight is available into the Sociological, Economic, Cultural and Scientific situation in Canada.
2. It may be difficult to have only one centre for Canadian Studies which may take up all aspects. A number of centres specialising in different fields would be necessary.
3. The programme may be initiated with the exchange of academics from Institutions in the two countries. Both sides may identify areas of interest and exchanges could partly be confined to these areas and partly for Canadian studies.

P.T.O.

(17)

4. 4-5 Institutions in these countries could be identified which may identify the exchange programme, organise joint seminars and exchange literature of interest. After these Institutions have worked for sometime, the Institutions identified could be developed into centres for Canadian studies.
5. The University Grants Commission may appoint an Advisory Committee of academics to advise it on the areas of interest for exchanges with Canada, topics of joint seminars to be organised and the type of material to be exchanged with Institutions in Canada.

The matter is placed before the Commission for consideration.

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E.O.(CE)

ANNEXURE to Item No.

The Committee appointed by the Commission to consider the establishment of a Centre for Canadian Studies in India met on 13th October, 1976 in UGC. The following were present.

1. Prof. V.P. Dutt
2. Prof. Rais Ahmed
3. Prof. G.S. Bhalla
4. Dr. Harti Eloise
5. Shri R.K. Chhabra
6. Shri L.R. Mal

Prof. Andre Beteille could not attend the meeting.

The Committee consider the note circulated by the Office of the Commission earlier. The Committee noted that - the purpose of the Centre from the point of view of the Canadian Govt. is to :-

1. Form a group of educators who are well informed about Canada;
2. draw attention in academic centres to the quality and originality of Canadian intellectual activity, especially in social sciences and humanities;
3. to catalyze the creation of a source of communication and information valuable to academic communities in Canada abroad.
4. by these means to facilitate, intensify and enlarge mutual understanding between Canada and the countries in which programmes are undertaken.

The Committee felt that the most important question is to determine the pattern of the proposed centre - whether it should be on the lines of the Centres for Area Studies Programmes already being implemented in certain universities or a new centre may be established where Canadian Scholars could be invited to give lectures on different aspects (Cultural, Sociological, economic etc.) of Canada. It was indicated that the Advisory Committee of the Shastri-Indo-Canadian Instt. was of the view that it should not develop into a traditional area studies centre.

The Resident Director of the Shastri-Indo-Canadian Instt. gave an idea of the present Canadian effort for developing contacts between academics in India and Canada. Their present programme include library support, fellowship-both long and short term, language training and summer programme for the visit of Canadian students and teachers to India. The Committee noted that there is already a level of contact between Indian scholars and those in Canada and what is required is to develop these contacts into a systematic frame-work so that the insight is available into the sociological, economic, cultural and scientific situation in Canada. It was felt that it may be difficult to have only one centre for Canadian Studies which may take up all aspects. A single centre could at the most specialise in one or two aspects. A number of Centres specialising in different fields would be necessary.

After detailed discussions the Committee felt that it may not be advisable to set up only one centre for Canadian studies to being with. The programme could be initiated with the exchange of academics from

19

institutions in the two countries. Both sides may identify areas of interest and the exchange could partly be confined to these areas and partly for Canadian and Indian studies. It may be necessary to identify four to five institutions in the two countries which may initiate the exchange programme, organise joint seminars and exchange literature of interest. After these exchanges have worked for some time, the institutions identified could be developed into centres for Canadian Studies.

The Committee also expressed the view that the UGC may appoint an Advisory Committee of academics to advise it on the areas of interest for exchanges with Canada, topics of the joint seminars to be organised and the type of material to be exchanged with institutions in Canada.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

(20)

Meeting :

Dated : 21st February, 1976

Item No. 9 To consider the report of the Visiting Committee to the University of Hyderabad.

The University Grants Commission requested the University of Hyderabad to formulate its 5th five-year plan development proposals within a ceiling of Rs. 6 crores in two priorities. The first being Rs. 4 crores and the second Rs. 2 crores. The first priority would also include the schemes already accepted by the U.G.C. during the 5th five-year plan period. The University of Hyderabad in pursuance of this submitted its proposals to the UGC for their consideration. The matter was considered by the Commission and it desired that the proposals may be got examined by an Expert Committee. Accordingly, a Committee consisting of the following was constituted:-

1. Professor A.R.Verma .. Convenor
Director
National Physical Laboratory
New Delhi.
2. Prof. S.C. Dube .. Member
Director
Indian Institute of Advanced Studies.
Simla.
3. Prof. P.K. Ghosh .. "
Department of Applied Mathematics
College of Science & Technology,
Calcutta.
4. Professor H.K. Marmohan Singh .. "
Department of Economics
Punjabi University,
Patiala.
5. Prof. S.C. Mishra .. "
Department of History
M.S. University of Baroda
Baroda.
6. Dr. Hari Narayan .. "
Director
National Geophysical Research
Institute
Hyderabad.
7. Prof. C.N.R. Rao .. "
Department of Chemistry
Indian Institute of Science
Bangalore.

(21)

8. Prof. O. Siddiqui
Tata Institute of Fundamental Research. Member
Bombay.

9. Dr. M.L. Mehta Secretary
Deputy Secretary
University Grants Commission
New Delhi.

2. The Committee visited the University of Hyderabad on 24th-25th November, 1976. It held discussions with the Vice-Chancellor, the faculty members, students and officers of the University. The Committee also called on the Governor and the Chief Minister of Andhra Pradesh State Government and also met the Vice-Chancellor Osmania University. The report made by the Committee is attached (Appendix).^{*} The report has been approved by the Convenor.

3. The facts, background and the progress made by the University so far are given in part II of the report. The University of Hyderabad was established as a Central University at Hyderabad to augment the existing facilities in the field of higher education as a part of the 'Six point Formula' for resolving the political crisis in Andhra Pradesh. The Education Minister, Government of India, appointed a Working Group to go into the details of the Central University at Hyderabad. The Group made its report to the Government of India. The observations made by this Group are given as Annexure II in the report.

4. One of the recommendations of the Working Group appointed by the Ministry of Education was:-

"The traditional structural pattern of the universities in which a department is created for each separate discipline, should be replaced by creating a few well-conceived schools each of which should consist of a group of centres. The focus in each centre should be a major problem of study which will require and interdisciplinary approach and which would be of special significance to the country in the present situation. The scope of the Schools may be determined by the Planning Board after a full study of educational and research activities of the universities in the region."

5. Keeping in view the above recommendation, working groups for different schools proposed to be established, were appointed to work out details of academic requirements for the various courses.

6. The reports of the working groups of different schools were considered by the Planning Board and on the basis of the recommendations of these bodies, steps were taken for the establishment of the following schools, departments and centres.

- (1) School of Mathematics and Computer/Information Sciences.
- (2) School of Environmental Geosciences.

22

- (3) School of Physics
- (4) School of Chemistry
- (5) School of Life Sciences
- (6) School of Humanities
- (7) School of Social Sciences.

Under the School of Humanities the following departments were established:-

- (1) Department of Philosophy
- (2) Department of English

Under the School of Social Sciences the following departments and centres of study were established :

- (1) Department of Economics
- (2) Department of History
- (3) Centre for Regional Studies
- (4) Centre for Human Sciences

The establishment of the above mentioned schools, Departments/Departments/Centres was approved by the Visitor. The proposals made by the University also included the establishment of the School of Creative Arts

General Observations and Recommendations:

5. The general observations made by the Committee are given in part of the report. Some of the important observations made in the report are given below:-

- (i) The Committee is happy to record that the University has made a commendable progress during a short span of its existence with a limited staff and under difficult conditions.
- (2) A planning board consisting of eminent educationists and scientists had since been constituted various working groups for different schools/centres to be established in the University in order to work out the details of the academic requirements for the various schools and centres. The reports of the working groups had been considered by the planning board and on the recommendations of these bodies steps were taken for the establishment of few schools as stated in the report. The Committee is convinced that the creation of schools is in accordance with the recommendations made by the working group set up by the Government of India.

23

(3) The Committee went through the reports of the various working groups, special committees, co-ordination group for the Social Sciences and minutes of the meetings of the planning board. The Committee is happy to note that the university/working groups took into consideration the suggestions made by the working group of the Government of India particularly with regard to the creation of schools, centres their programmes of teaching and research at various levels.

(4) The observations made by the working groups and accepted by the planning board of the university indicate the lines on which the university will develop. This is in accordance with the recommendations made by the working group set up by the Government of India.

(5) The working group on the university had observed that 'the university should offer three-year honours courses and two-year Master's course and one-year M.Phil. or such other courses in addition to research facilities'. The Committee endorses this recommendation of the working group but, however, suggests that during the first few years, emphasis should be laid exclusively in developing postgraduate studies like M.A./M.Sc., M.Phil. and Ph.D. After the postgraduate programme has taken roots, the university should consider starting honours courses at the undergraduate level with a smaller intake in the initial stages. The university, may in 1980, introduce a well designed undergraduate programme of teaching for the +3 stage at the university level. By this time, the outputs of +2 stage will be available for admission in the university. The university may work out a broad based flexible undergraduate programme at the honours level. The university should venture to serve as a pace-setter in this regard.

(6) There are several research Institutions in Hyderabad. The group on the establishment of the university had suggested that the university may collaborate with these institutions. The committee is in full agreement with this. The Committee noted that the university has already entered in such collaborations with some institutions in the organisation of the M.Phil and M.A. programme. The Committee, however, feels that there is a need to have such collaboration in a planned manner for a long term perspective. In view of this the Committee suggests that an expert group may be appointed to work out the details of such collaboration.

(7) The Committee also agrees with the views of the working group that "the university in the first phase should provide for integrated courses in Humanities, Social Sciences, Commerce and Natural Sciences". In this connection the university is suggested to consider the guidelines of the UGC on the re-structure of courses at the university level.

(8) The University may introduce programmes of preparatory, supplementary and remedial education for boys and girls of under-privileged sections of the Society.

(9) The university is cautioned to plan its students intake in such a way so as to maintain its all India character which is essential for a Central University. In this connection, the Committee would make a special reference to the undergraduate level.

(10) The university has to provide integrated, inter-disciplinary courses and to collaborate with National Laboratories and Industry. While doing this the Committee has suggested the recognition of the staff of the National Laboratories, etc. as teachers of the university. The Committee also suggests joint appointments in more than one School in the university.

This will promote inter-disciplinary approach. The University may also have a provision of a few (3-4) floating positions at the senior level to be offered to outstanding persons in the fields without having gone through the procedure of appointments in the university. Such positions may be offered by the Vice-Chancellor himself.

(11) The university has been able to impart some of the most sophisticated instruments to be used as a central facility by its various Schools. More equipment is proposed to be added to this facility. In addition, a central workshop is also to be developed. The Committee suggests that the university may keep in view the suggestions made by the U.G.C. for developing such facilities in the universities.

(12) The university has acquired 2,300 acres of land for its campus. The university plans to develop this whole areas. In this connection the committee took note of the recommendation made by the working group i.e. "university should have an area of atleast 1,000 acres". The university is suggested to develop the area in phases so as to maintain the campus within the limitations of funds. This is more important when all the expenses are to be met from the plan funds. This will also give the university more funds for its academic programmes.

(13) The working group on the establishment of the university observed in its report that the State Government would provide developed land to the university. The Government of India who were requested to ascertain the position from the State Government in this regard have now intimated the UGC that the Government of Andhra Pradesh is not prepared to accept liability for the development of land as in their view there was no such commitment.

25

- (14) The university should exercise maximum economy in the construction of its buildings. It should make special efforts to see that maximum use is achieved of the buildings proposed to be constructed. The building programme will need to be carefully phased.
- (15) The central library of the university will not be established at this stage. The university has plans to have a library in each of the schools. The university will provide central Indexing xeroxing and micro-filming facilities. The Committee is of the view that library administration should be centralised and accountable to the university as a whole. The purchasing and processing should also be done centrally. The university should ensure proper and co-ordinated services of the libraries of the schools.
- (16) The university has just been created. It has to establish its schools by providing staff and other facilities. Funds are therefore to be provided for the establishment of the university at this stage. This point has been kept in view by the Committee while making its recommendations.
- (17) The working groups of the university have made recommendations for staff and other facilities for the various schools keeping in view their programmes of teaching and research. The committee is in general agreement with such recommendations. The details of the courses to be actually followed will need to be worked out by the Faculty of the Schools. The details in few schools where Faculty has already been appointed have, however, been worked out to a considerable extent.
- (18) The site for the University of Hyderabad is far removed from the twin cities and it is essential that construction of buildings, hostels, staff quarters, etc. proceeds at a faster speed and the entire campus is developed in the shortest possible time in the overall interests of the students-teacher community and the academic life of the Hyderabad University. This is further important due to the circumstances which led to the creation of the university.

- (19) The two other universities having similar structures and also engaged in inter-disciplinary studies are Jawaharlal Nehru University at New Delhi and the North-Eastern Hill University at Shillong. The Committee suggests that the three universities may have a co-ordinating committee at the appropriate level in order to co-ordinate their programmes of teaching and research.
- (20) The University has to undertake a huge building construction programme. It would be desirable for the university to clearly define its policy towards building construction programme in consultation with the U.G.C.
- (21) The Committee strongly suggests that the university should get the reports of the various working groups in the School of Social Sciences finalised early to safeguard against possible imbalance in the growth of the university in Natural Sciences vis-a-vis the Social Sciences.
- (22) The Committee has emphasised the introduction of suitable programmes for Hindi.

Proposals not recommended by the Visiting Committee:

6. The Committee has not recommended the proposals of the university for the construction of the buildings for the schools of Environmental Geo-sciences, Mathematics, Computer/Information Sciences, School of Social Sciences, School of Humanities as also the proposal for minor works and to set up a printing press.

Efforts made by the university towards examination reforms:

- 7 The university has adopted the semester systems admission tests, internal assessment.
- a) The Committee has recommended the setting up of a group to work out the plan of co-ordination between the University of Hyderabad and other universities/institutions/national laboratories at Hyderabad.
- b) The committee has recommended a co-ordinating committee between the three universities viz. University of Hyderabad, Jawaharlal Nehru University and the North-Eastern Hill University where the emphasis is on inter-disciplinary approach.

27

Financial Implications:

8. The Committee in its report on financial implications has made the following observations:

- (1) The University of Hyderabad has emerged out of the "six point formula". It is to provide integrated, inter-disciplinary courses in Humanities, Social Sciences, Natural and Life Sciences, at the Honours M.A., M.Sc., M. Phil. and Ph.D. levels. The courses will be broad-based, flexible, suiting to the needs of the region and the country and also taking note of social relevance. The university is to interact with National laboratories and other institutions. In order to achieve these objectives, well-conceived schools have been created. These schools are to be established and for these schools, buildings, equipment, books, journals, academic and supporting staff etc. are to be provided. The needs of such a university with a variety of programmes/courses cannot be considered like the needs of other traditional or established universities. A different approach was therefore imperative in making recommendations for this university. The University has to have an all-India character in the students community. It has also to take special care of scheduled caste and scheduled tribe students. Provision of adequate scholarships is also essential. The broad spectrum of the courses would require visiting faculty and hence the provision for visiting fellows. All these considerations had been taken by the Committee in making its recommendations. The university is to function effectively at its own, early. This is because of the special situation under which the university had to be established. It was, therefore, not possible for the Committee to suggest the postponement of certain activities which are to be provided in the university. This was another important consideration before the Committee.

The campus site is far away from the city. It is just a barren land with no living facilities nearby. The campus is to be provided with roads, water, electricity, and sewage facilities. Residential facilities

28

for staff and students, provision for health centre, co-operative store, etc. are also to be made.

9. The financial implications are summarized in Annexure-10 of the report.

10 The matter is placed before the Commission for consideration.

D.S.(D.5)

R E P O R T

V I S I T I N G C O M M I T T E E

(FIFTH FIVE YEAR PLAN PERIOD)

U N I V E R S I T Y O F H Y D E R A B A D

UNIVERSITY GRANTS COMMISSION

BAHADUR SHAH ZAFAR MARG

NEW DELHI

(24-25th November, 1976)

C O N T E N T S

<u>PART</u>		<u>PAGE</u>
I	Appointment of committee and visit	.... 1
II	Basic Facts and Background	.... 2
III	Fifth-Plan proposals	.... 16
IV	Views of the Vice-Chancellor & Others	.... 18
V	General Observations	.... 25
VI	Proposals and Recommendations	.... 39
	a. School of Math.Computer/Information Sciences	.... 40
	b. School of Enviromental Geo Sciences	.... 46
	c. School of Physics	.... 51
	d. School of Chemistry	.... 55
	e. School of Life Sciences	.... 64
	f. School of Social Sciences	.... 70
	g. School of Humanities	.... 76
	— English	.... 76
	— Philosophical studies	.... 79
	h. School of Creative Arts	.... 81
	i. Buildings	.... 84
	j. Campus development	.... 94
	k. Miscellaneous proposals	.... 96
VII	Financial Implications	.... 101
VIII	Acknowledgement	.... 104
IX	<u>Annexures</u>	
	Ann.-1 Working group on the establishment of the University	.... 1
	Ann.-2 Recommendations of the working group of the Government of India	.... 2

II

Ann.-3	Workshop and wood working machines already acquired	....	4
Ann.-4	List of Periodicals already acquired	....	5
Ann.-5	List of Scientific Instruments already acquired	.....	21
Ann.-6	List of Schemes already approved by the U.G.C.	....	22
Ann.-7	List of members of Planning board executive council and the Academic council	....	23
Ann.-8	Working groups for different schools/ Centres	....	26
Ann.-9	Topics for coverage in M.Sc. & M. Phil. courses, school of Env't. Geo sciences	...	33
Ann.-10	Financial implications of the recommendations - summary	...	35
Ann.-11	Report of the working group for Regional studies	...	41

Report of the Visiting Committee to the
University of Hyderabad

....

PART - I

1.01 The University Grants Commission requested the University of Hyderabad to formulate its 5th five-year plan development proposals within a ceiling of Rs. 6 crores in two priorities, the first being of Rs. 4 crores and the second Rs.2 crores. The first priority would also include the schemes already accepted by the U.G.C. during the 5th five-year plan period. The University of Hyderabad, in pursuance of this, submitted its proposals to the UGC for their consideration. The matter was considered by the commission and it desired that the proposals may be got examined by an Expert Committee. Accordingly, a Committee consisting of the following was constituted:

- | | | |
|---|------|----------|
| 1. Prof. A.R. Verma
Director
National Physical Laboratory
New Delhi | | Convener |
| 2. Prof. S.C. Dube
Director
Indian Institute of
Advanced Studies
Simla | | Member |
| 3. Prof. P.K. Ghosh
Department of Applied Mathematics
College of Science & Technology
Calcutta | | Member |
| 4. Prof. H.K. Manmohan Singh
Department of Economics
Punjabi University
Patiala | | Member |
| 5. Prof. S.C. Mishra
Department of History
M.S. University of Baroda
Baroda. | | Member |

- | | | |
|---|-----|-----------|
| 6. Dr. Hari Narayan
Director
National Geophysical
Research Institute
Hyderabad. | ... | Member |
| 7. Prof. C.N.R. Rao
Department of Chemistry
Indian Institute of Science
Bangalore | ... | Member |
| 8. Prof. O. Siddiqui
Tata Institute of
Fundamental Research
Bombay | ... | Member |
| 9. Dr. M. I. Mehta
Deputy Secretary
University Grants Commission
New Delhi. | ... | Secretary |

Visit of the
Committee:

1.02 The Committee visited the University of Hyderabad on 24th-25th November, 1976. It held discussions with the Vice-Chancellor the faculty members, students and officers of the University. The Committee also called on the Governor and the Chief Minister of Andhra Pradesh State Government and also met the Vice-Chancellor, Osmania University.

PART - II - BASIC FACTS AND BACKGROUND

Establishment
of the
University:

2.01 The decision of the Government of India to establish a Central University at Hyderabad to augment the existing facilities in the field of higher education is a part of the 'Six-Point Formula' for resolving the political crisis in Andhra Pradesh. The Education Minister, Government of India, appointed a Working Group consisting of eminent educationists (Annexure I) to go into the details of the Central University at Hyderabad. The Group held several meetings

at Hyderabad and Delhi and made its report to the Government of India. The observation/recommendation made by the Group are given in Annexure 2.

2.02 In the light of the recommendations of the Working group, a bill was introduced in the Parliament. The University of Hyderabad Act (Act No. 39 of 1974) received the assent of the President of India on 3rd September, 1974. The Act came into force on 2nd October, 1974. With effect from this date, the Visitor constituted the Court, the Executive Council and the Planning Board. According to the Act, the Jurisdiction of the University shall extend to the whole of the State of Andhra Pradesh.

2.03 The first Vice-Chancellor, Professor Guibekhsn Singh, assumed charge on 1st November, 1974.

2.04 The University received a munificent donation through the will of late Kum. Padmaja Naidu, her ancestral property consisting of two buildings known as the 'Golden Threshold' and 'Gopal Clinic', a building complex situated in the heart of the city of Hyderabad. On 17th November, 1975 the Prime Minister of India, dedicated this complex of buildings to the University of Hyderabad at a function held in the 'Golden Threshold' premises. It was only after this date the University started functioning in organized manner.

2.05 Soon after the Vice-Chancellor joined the University, a Special Officer was appointed to head the administrative wing of the University, pending appointments of

the Registrar and the Finance Officer. A skeleton staff to assist him was also appointed. As contemplated in the statutes, the first Registrar and the first Finance Officer were appointed by the Visitor. The Finance Officer joined the University on 16th May 1976 and the Registrar on 21st June, 1976.

(A) ACADEMIC ACTIVITIES

Academic
Programmes

2.06 One of the recommendations of the working group appointed by the Minister of Education was:

"The traditional structural pattern of the Universities in which a department is created for each separate discipline, should be replaced by creating a few well-conceived schools each of which should consists of a group of centres.

The focus in each centre should be a major problem of study which will require an inter-disciplinary approach and which would be of special significance to the country in the present situation. The scope of the Schools may be determined by the Planning Board after a full study of educational and research activities of the Universities in the region".

The University on the recommendation of its planning Board agreed to start the following Schools:

- (1) School of Mathematics and Computer/
Information Sciences
- (2) School of Environmental Geosciences
- (3) School of Physics

- (4) School of Chemistry
- (5) School of Social Sciences
- (6) School of Humanities
- (7) School of Life Sciences

2.07 Keeping in view the above recommendation, working groups for different schools proposed to be established, were appointed to work out details of academic requirements for the various courses.

2.08 The reports of the working groups of different Schools were considered by the Planning Board and on the basis of the recommendations of these bodies, steps were taken for the establishment of the following schools, departments and centres:

- (1) School of Mathematics and Computer/
Information Sciences.
- (2) School of Environmental Geosciences
- (3) School of Physics
- (4) School of Chemistry
- (5) School of Life Sciences
- (6) School of Humanities
- (7) School of Social Sciences

Under the School of Humanities the following departments were established:-

1. Department of Philosophy.
2. Department of English.

Under the School of Social Sciences the following departments and centres of study were established:-

1. Department of Economics
2. Department of History
3. Centre for Regional Studies
4. Centre for Human Sciences.

The establishment of the above mentioned Schools, Departments/Centres was approved by the Visitor.

2.09 The working Group, had recommended that:
"Keeping in view the situation in the State, efforts may be made to start courses such as M. Phil. in a few selected subjects sometime during the end of 1974. For this purpose, it will be necessary to hire suitable accommodation in Hyderabad".

The Group had also recommended one year M.Phil. programme to be offered by the University.

2.10 In view of this, steps were initiated by the University for starting M. Phil. courses in certain selected subjects. As the University did not have the requisite accommodation, staff and other facilities to run these courses, assistance in the form of accommodation, staff and other facilities was enlisted from some of the Central institutions in Hyderabad. This enabled the University to start towards the end of 1975 the following courses in some of these institutions as indicated below:

SCHOOL	Course	Place / institution	Date of commencement
(1) Humanities	English M.A.	Central Institute of English and Foreign Languages	17.11.1975
(2) Physics	X-Ray Crystallography	Regional Research Laboratory	1.12.1975
(3) Mathematics & Computer/ Information Sciences	Computer Methods	Electronics Corporation of India Ltd.	1.12.1975
(4) Social Sciences	Economics	Administrative Staff College of India	1.1.1976
(5) Life Sciences	Bio-Chemical Techniques.	Regional Research Laboratory.	1.1.1976
(6) Chemistry	Organic Chemistry.	-do-	1.12.1975
	Physical Methods in Structural Determination & Analysis.	-do-	1.12.1975

2.11. The following table shows the number of students admitted school-wise and course-wise :-

S.No.	School	Course	No.of students
1.	Mathematics & Computer/Information Sciences	M.Phil, Computer Methods.	13
2.	Physics	M.Phil, X-Ray Crystallography	5
3.	Chemistry	M.Phil, Organic Chemistry.	7
		M.Phil, Physical Methods.	6
4.	Life Sciences	M.Phil, Bio-Chemical Techniques	3
5.	Humanities	M.A., (English) (First Batch - 1975) (Second Batch -1976)	6 26
6.	Social Sciences	M.Phil, Economics	5

The University Grants Commission provided Fellowships of Rs.400/- p.m. for each M.Phil.student.

2.12. Some statistics relating to students admitted by the University so far is given below:-

(a) Student enrolment: subject-wise, year-wise, course-wise

S.No.	No. of Students enrolled.	Subject	Year	Course
1	2	3	4	5
(1)	13	Computer Methods	1975-76	M.Phil.
(2)	7	Org.Chemistry	1975-76	M.Phil.
(3)	6	Physical Methods	1975-76	M.Phil.
(4)	5	X-Ray Crystallography	1975-76	M.Phil.
(5)	3	Biochemical Techniques	1975-76	M.Phil.
(6)	6 i)	English	1975-77	M.A.
	26 ii)	English	1976-78	M.A.
(7)	5	Economics	1975-76	M.Phil.

(b) Research Scholars:- Nil.

(c) Student enrolment: School-wise, Year-wise

S.No.	No. of Students Enrolled.	School	Year
1.	13	Mathematics & Computer/ Information Sciences	1975-76
2.	13	Chemistry	1975-76
3.	5	Physics	1975-76
4.	3	Life Sciences	1975-76
5.	6 i)	Humanities (English)	1975-77
	26 ii)	Humanities (English)	1976-78
6.	5	Social Science(Economics)	1975-76

(d) Students admitted from different States of the Country -
Course-wise, Year-wise and State-wise

S.No.	Students enrolled	Course	Year	State
1.	10	Computer Methods	1975-76	Andhra Pradesh
	2	-do-	1975-76	Tamil Nadu
	1	-do-	1975-76	Pondicherry
	<u>13</u>			
2.	7	Organic Chemistry	1976-77	Andhra Pradesh
3.	5	Physical Methods	1975-76	Andhra Pradesh
	1	Physical Methods	1975-76	Maharashtra
	<u>6</u>			
4.	3	X-ray Crystallography	1975-76	Andhra Pradesh
	1	-do-	1975-76	Uttar Pradesh
	1	-do-	1975-76	Maharashtra
	<u>5</u>			
5.	1	Bio-Chemical Tech.	1975-76	Andhra Pradesh
	2	Bio-Chemical Tech.	1975-76	Tamil Nadu
	<u>3</u>			
6.	i) 6	English	1975-77	Andhra Pradesh
	ii) 24	English	1976-78	Andhra Pradesh
	1	English	1976-78	Tamil Nadu
	1	English	1976-78	Maharashtra
	<u>26</u>			
7.	3	Economics	1975-76	Andhra Pradesh
	1	Economics	1975-76	Karnataka
	1	Economics	1975-76	Delhi
	<u>5</u>			

(e) Scheduled Caste/Scheduled Tribe students admitted by the University course-wise, year-wise: Nil

2.13 Admission to the various courses in the University is made on an all-India basis, in the order of merit based on the performance of the candidates at the entrance test and viva-voce. Special provision will be made in respect of students from back-ward areas, weaker sections of the community and in particular Scheduled Castes and Schedules Tribes.

2.14 The University Grants Commission intimated the University that pending detailed scrutiny of the academic posts for different schools, the University may appoint 2-3 persons in senior positions in each school either as Professor or as Reader depending on the

availability of the persons. They may, apart from assisting in the running of the M.A. and M.Phil. Courses, work-out the requirements of the different schools of the University for the next three years.

The University has offered appointments to 10(ten) Professors, one Reader and one Lecturer as given below:-

S.No.	School	Posts filled		
		P	R	L
1.	Mathematics & Computer/Information Sciences	1	-	-
2.	Environmental Geo-Sciences	-	-	-
3.	Physics	2	-	-
4.	Chemistry	3	-	-
5.	Life Sciences	2	1	1
6.	Humanities	2	-	-
		10	1	1

One Professor in the School of Life Sciences, & One Professor in English have already joined the University. Others are expected to join the University very shortly. The appointments are to be made on an all-India basis.

Students
Amenities:

2.15 Most of the students admitted are day-scholars and those who needed residential accommodation have been provided with such facilities. 22 boys were provided hostel accommodation in the 'Gopal Clinic' premises. From August, 1976, they were provided kitchen and dining hall facilities also. Food articles and other controlled items are given to the students from the fair price shops. The students run their own mess under the dividing system, through an elected committee. They are supplied newspapers and other reading materials in the hostel.

2.16 The students attending classes in different institutions get library facilities in those institutions as well as the library facilities provided by the University in the "Golden Threshold". Some of the students were, however, not very happy with such facilities in other Institutions.

2.17 One of the major problems facing the students was of transport. The University, has, however, now purchased a 22 seater Mini-bus which

is used for taking the students to various Institutions and bringing them back. The University has not been able to provide sports and games facilities to these students due to lack of space at the present premises.

2.18 The University has not been able to provide residential accommodation to any of its staff at present. The plans and estimates for construction of a sizeable number of staff quarters in the University Campus are under preparation, and as soon as these are approved, the construction work would be undertaken. The University is on the look-out for procuring some private houses in and around the city of Hyderabad to provide residential accommodation for some of the staff members until some staff quarters on the campus are ready.

2.19 The Executive Council has approved the scheme of General Provident Fund-cum-Pension-cum-Gratuity and Contributory Provident Fund-cum-Gratuity for the welfare of the staff.

2.20 It is hoped to provide all workshop facilities to all the Schools in the University. Attempts would also be made to provide centralised facilities for repairs of all kinds of electrical and electronic instruments.

2.21 The University has already acquired six wood-working machines and five workshop machines. Three more machines are on order, and are expected to arrive shortly. The University proposes to make all the furniture (for its Offices, Laboratories and Hostels) in its own Workshop. Some Office furniture has already been made at considerably reduced costs. The Science Departments may draw substantially on this workshop particularly in the earlier stages. The Workshop has also proved exceedingly useful in the various building activities as stated by the University. A list of the major Workshop equipment is enclosed (Annexure - 3).

Curriculum
Examinations:

2.22 The University has adopted the semester system of instruction and examination, internal assessment and the 7-point scale grade system. Detailed curricula of the various courses in different Schools will be prepared as soon as the senior faculty so far appointed in the various Schools join the University.

Library:-

2.23 The University has taken prompt steps to procure books and journals, including back volumes for the library. Books and periodicals worth about Rs.35.00 lakhs have already been purchased. More than 150 periodicals, with back volumes, have been received. Library furniture/ stacks, card index holders etc. worth Rs.2.50 lakhs also have been acquired. A book binding section has been established. Four machines (cutting, cornering, stitching and gold lettering) have been acquired besides other smaller equipment for book-binding. A list of periodicals acquired is enclosed (Annexure - 4).

Scientific
Instruments:-

2.24 The University Grants Commission provided Import licences for Rs.65.00 lakhs for the Import/Sophisticated Scientific Instruments and other items of equipment. Most of the Scientific Instruments and equipment, for which orders were placed have already arrived and the remaining have been shipped, and would be received very shortly. The equipment consists of Analytical Instruments, and would be useful for all the Science Schools. The University shall provide a centralised Instrumentation facility to ensure full use of the equipments for all Science Departments and prevent acquisition of duplicate instruments by different Schools. A centrally air-conditioned building will be built to house the instruments. The list of a major items acquired is enclosed (Annexure - 5). A Committee consisting of Professors, drawn from all Science Schools, will supervise the proper functioning of the Centre.

(B) OTHER ACTIVITIES -

2.25 Some other major activities which have been undertaken by the University so far are summarised below:-

(1) SITE :-

2.26 After an elaborate on-the-spot inspection of various sites

in and around Hyderabad, the University finally selected a strip of land covering an area of 2,300 acres, about 14 kilometers away from the centre of the city on the old Hyderabad-Bombay Road. The Government of Andhra Pradesh, very kindly agreed to allot the same site to the University. The possession of the land was handedover to the University on March 25, 1975. The work on the detailed survey of the land was entrusted to the Survey of India immediately thereafter. The Geophysical Survey of the land for locating water-points was entrusted to the National Geophysical Research Institute.

Both these undertakings completed their work in a short time.

(2) Ideas Competition:-

2.27 In pursuance of the decision of the Executive Council, steps were then taken to conduct a National Ideas Competition for a conceptual layout Plan of the University Campus. Several Architects took part in the competition, and a Committee of Assessors selected the prize-winning Architects for the award of the first, second and third prizes. A conceptual layout plan has since been made available to the University. The first prize-winning Architect was assigned the task of designing a detailed and comprehensive Master Plan of the University. The Master Plan, is now in the process of finalisation.

(3) Electric Supply:-

2.28 The University has taken steps to provide 33 KV line for the permanent Electric supply to the University Campus anticipating about 2000 KVA load ~~xx~~ after ten years. The power lines have already been drawn to the Campus site from a distance of about 7 Kilometers. The Andhra Pradesh State Electricity Board has provided a temporary 11 KVA line with a transformer in the campus for immediate supply of electricity.

(4) Water Supply :-

2.29 The Geophysical Survey team recommended boring of tube-wells and construction of open wells in the campus site. The University located five open wells in the campus site and a sixth well was handed over to it by the State Government. Four of these wells were cleaned and were further deep-bored. This has resulted in making abundant supply of water available. In view of the

periodic water scarcity in Hyderabad, these wells will be a boon to the University. Temporary water connections have already been given to the buildings under construction. A water reservoir, already existing in the service area, is being renovated. The present water supply is expected to be sufficient to meet the construction requirements of the University.

2.30 Seven tube wells have also been bored at different places, as recommended by the N.G.R.I., besides three borings at other points. Four of these tube-wells have sufficient output, and ejecto pumps are also being installed.

2.31 The Government of Andhra Pradesh has sanctioned Rs.12.5 lakhs for providing filtered and drinking water from Manjeera reservoir. Initially, the University would receive 5 lakhs gallons of water daily, which would later be increased to 12.5 lakhs gallons a day. The laying of the six-kilometer long 12" line has already been completed. The estimates and design for the construction of a five lakhs gallon capacity sump has already been worked out.

5. Horticultural Operations:-

2.32 The University has taken steps to clear the bushes and other wild growth in certain areas and ³⁰⁰⁰ trees have been planted at various places. A plant nursery for the purpose of future plantation, gardening etc., has also been established. An Assistant Horticulturist is in-charge of all these operations. As soon as the detailed Master Plan of the University Campus is finalized, the Horticultural operations will be intensified.

6. Buildings :-

2.33 The University was able to commission a few buildings lying neglected at the campus site after getting them repaired. The buildings - 'Golden Threshold' and 'Gopal Clinic' also needed extensive repairs before being put to use. The work involving repairs, modifications, new electrifications of the 'Golden Threshold' was completed in November 1975. This building now houses the University Office and the Library. The work of modification, repair and renovation of the 'Gopal Clinic' is under progress and would be completed shortly. A portion of the 'Gopal Clinic' is now being used for housing the book-binding section of the library, other portions provide hostel accommodation for twenty two students and

periodicals at present located in the 'Golden Threshold' building would be shifted to the two halls in the 'Gopal Clinic', thereby releasing adequate accommodation for the increasing office requirements. The 'Gopal Clinic' would also be able to provide residential accommodation for a University Officer.

2.34 At the University campus, in the service area, the following building projects are in progress:-

(a) Temporary Science School Building :-

A building comprising a floor-area of 20,000 sq.ft. which would ultimately provide accommodation for the University Public Works Department, the Architects Office and a Health Centre is in progress. This building would provide accommodation temporarily to the four Science Schools. It also has provision for housing the library of the Science Schools, as well as the Scientific equipment already received.

(b) Workshop and Wood-working Machine-shop:-

This shed-type building covering a floor-area of about 10,000 sq.ft. would house the six wood-working machines, six major workshop machines, besides providing storage space for the raw materials and the finished products.

(c) Storage Shed :-

This shed with a floor-area of about 4,000 sq.ft. is almost complete. This would serve as storage for cement, steel, wood, paint and other materials. It would also provide office accommodation to some University staff working on the site.

(d) Pump housing and protective roofing for the six open wells:-

The work on the four open wells located in the service area for providing pump-housing and protective roofing is already in progress. This would ensure protected water supply for drinking and building purposes.

(e) Electric Sub-Station:-

Construction of one electric sub-station comprising a total area of 1000 sq.ft. to house a 310 KVA transformer (incoming voltage 11 KV and outgoing 440 Volts), was started recently. Work is in progress. This would ensure permanent electric supply to the service area.

(f) Compound Wall :-

The University Grants Commission has sanctioned a sum of Rs.13 lakhs for the construction of about 7 kilometers of compound wall all round the campus(except the front). Formalities regarding tenders etc. have been completed, and the work has already been taken in hand. It would take about a year to complete this work.

(g) Pump housing for the tube-wells:-

Work on the construction of the pump housing for the three tube-wells bored in the service area is in progress and ejecto pumps would be installed thereafter.

2.35 All the building activities initiated at the campus are expected to be completed shortly except the compound wall, which may take about a year.

2.36 The Commission has already agreed to provide/provide grants to the University for the purchase of books and journals, library stacks and furniture, Scientific equipment, competition of design of lay-out plan of the campus, electric installations at the new sheds, wood working machines, funds for fellowships, funds for repair of 'Golden Threshold and 'Gopal Clinic', purchase of mini bus, construction of buildings etc. The details of the schemes accepted are given in Annexure - 6.

PART III - 5TH PLAN PROPOSALS -

3.01 The University has submitted its proposals in two priorities. The first priority proposals involve a financial implication of Rs.6.87 crores and the second, a sum of Rs.1.00 crore. The financial implications are given in the following tables.

<u>FIRST PRIORITY</u>		Rupees in Lakhs.
1. <u>Academic</u>		
i)	Library books & periodicals	60.00
ii)	Scientific Research Equipment and Laboratory Apparatus	100.00
iii)	Workshop	3.00
iv)	Glassblowing Workshop	5.00
Total		168.00

2. Development of the Campus

i)	Master Plan	1.50
ii)	Landscaping & grading etc.	4.00
iii)	Roads, paths & culverts etc.	17.000
iv)	Sewage, drainage and Storm water	6.00
v)	Water Supply	8.00
vi)	Electricity	3.50
vii)	Horticultural Operations	4.00
	Total	<u>44.00</u>

3. Buildings :-

i)	Instrumentation Buildings	15.00
ii)	Three School Buildings (Chemistry, Physics and Life Sciences)	120.00
iii)	Residential Complex	100.00
iv)	Teacher Hostel	15.00
v)	Student Hostel Complex	75.00
vi)	Boundary Wall	5.50
vii)	Administrative Buildings	8.00
viii)	Guest House	8.00
ix)	Health Centre, Gymnasium Cooperative stores and Cafeteria	5.00
x)	Minor works	10.00
	Total	<u>361.50</u>

4.	Machinery, tools and plants	2.85
5.	Vehicles	4.85
6.	Furniture & Office equipment	4.00
	Total	<u>11.70</u>
	Grand Total (A)	<u>585.20</u>

7. Revenue budget

i)	Teaching staff (Salaries)	57.00
ii)	Administrative Staff (salaries)	9.93
iii)	Miscellaneous	35.07
	Grand Total (B)	<u>102.00</u>
	Total of (A) & (B)	<u>687.20</u>

SECOND PRIORITY

8. Construction of the buildings for the Schools of Social Sciences, Humanities, Mathematics, Geosciences. 100.00

3.02 The University submitted supplementary proposals to the Committee at Hyderabad as detailed below:-

	<u>Rupees in Lakhs.</u>
(1) Publication	1.00
(2) Seminars/Workshops	1.00
(3) Visiting Fellows	1.50
(4) Scholarships/Fellowships	6.00
(5) Animal House	7.50
(6) Field work	0.50
(7) PBX System	2.50
(8) Moter-cycles/Scooters(Three Wheeler)	1.00
(9) Library Stationery	1.00
(10) Printing Press	2.00
(11) Exchange of Teachers	1.00
	<u>25.00</u>

Funds were also asked for consumables and chemicals for different departments. Posts of one more Professor and one Reader in Philosophy were also asked.

PART IV : VIEWS OF VICE-CHANCELLOR AND OTHERS

4.1 The Vice-Chancellor, University of Hyderabad, the faculty, students and Officers of the University in the course of their discussion with the Committee inter-alia made following observations:-

(1) The University of Hyderabad, designed as a unitary campus, is destined to grow as one of the outstanding National seats of Higher learning in the country. It may be observed from the reports of the Working Groups that emphasis in every school/centre will be on inter-disciplinary collaboration, inter-action between different Schools, Departments and Centres. In other words, knowledge will be conceived as a multi-faceted activity.

(2) In designing its courses of studies, the University of Hyderabad will take special care to avoid duplication and overlapping

keeping in view the national and regional objectives/needs.

(3) Every possible concerted effort will be made to achieve the objectives envisaged in the University Act (Clause 4), not only in the sphere of inter-disciplinary studies, but in the wider areas of Inter-institutional and Inter-University spheres of collaboration.

(4) The University of Hyderabad will function as a National seat of higher learning, geared towards achieving certain specific ideals in the field of education. The University will direct its basic endeavour towards the realisation of the following objectives and ideals. These objectives have been incorporated by the Working Group(s) set up for/by the University, thus underscoring the lines on which the University of Hyderabad will develop.

(5) The primary objective before the University will be research at various levels. Whereas, M.Phil. and Ph.D. programmes are essentially research courses, the University will attempt to initiate even its M.A./M.Sc. students into research techniques in the planning and writing of their term papers for each semester. This will make for continuity in academic courses from the M.A./M.Sc. to the Ph.D. level, thus offering incentives to post-graduate students to identify and cultivate their commitment to specific areas of their academic interest. In brief, the ideals of fresh thinking, logical reasoning, competent organisation of material will be encouraged to achieve publications in the learned Indian and foreign journals.

(6) Whereas the University will take due cognizance of the relevance of research to practical social needs, adequate emphasis will be laid on what has been called a disinterested pursuit of knowledge. In other words, the aim will be bifocal, pragmatic and idealistic. It may be seen from the description of courses in various schools that due care has been taken to maintain this delicate balance between the purely theoretical and pragmatic aspects of each discipline.

(7) One of the basic tasks/the University of Hyderabad will be to nourish, encourage and implement the concept of Inter-disciplinary cooperation between different centres comprising a school, and different schools in the overall academic structure of the University. Such an idea, it is now Universally recognised

is both economical and academically viable and challenging. This inter-disciplinary participation will bring about a harmonious inter-blending of different critical stances, and also encourage teachers from different centres and schools to work in close cooperation with each other. This will generate an atmosphere of academic co-existence - a kind of integrated academic effort not always nurtured at many Indian Universities.

(8) The University will attach great importance to one of the basic elements in any form of ideal education - an intimate and personal relationship between the student and his teacher. This will imply the imperative desirability to limit the number of students joining each school/centre so that effective and meaningful relationship could emerge between the students and the teachers. Not only will a class-ordinarily not exceeding 30, to be broken into smaller tutorial groups for indepth discussion, but each teacher will be required to watch with affectionate care and understanding the academic progress of each student. This arrangement derives its vitality from tutorial system, seminar discussions and teacher-student informal contacts, both inside the class room, the teacher's office, and outside in the wider context of personal relationship. The University hopes that this personal relationship between the students and teachers will enable the latter to discover talent for special guidance and encouragement in every way possible. Since the University of Hyderabad is being established as a Residential University, corporate existence on the campus will become a concrete reality.

(9) For a full and integrated growth of the Human personality the students must be encouraged to develop interest in extra curricular activities such as public speaking, dramatic, sports and games, fine arts etc. The University has a proposal to make a beginning towards the establishment of a School of Creative Arts to achieve some of these ideals.

(10) The University of Hyderabad will give adequate reservation of seats for students from backward areas, and those from the weaker sections of society.

(11) The University of Hyderabad, situated at the centre of the Indian subcontinent and in a place of cosmopolitan culture, interblending diverse linguistic groups and different traditions, will emerge as a link between all parts of the country. The geographical location of the University of Hyderabad alone is destined to lend it a new dimension - an exclusive distinction not shared by any other National University in the country. This will have bearing on the programmes of the University.

(12) Apart from one state University i.e. Osmania University there are several other research institutions in Hyderabad. The University proposes to have maximum collaboration with these Institutions. The University has already entered into arrangements for collaborative teaching and research with the N.G.R.I., R.R.Lv and C.I.E.F.L., and the Administrative staff college of India. There is some cooperation with the Osmania University also in the programmes of teaching of English. The authorities of the various Institutions where the courses are being conducted have extended full cooperation and assistance for the successful completion of these courses.

(13) The University of Hyderabad is already functioning in collaboration with several State and National Institutions in the City of Hyderabad. It will now be an earnest endeavour of the University to enlarge this area of cooperation so as to include other Universities/Institutions in the country, especially those engaged in the same areas. This programme of inter-action between the University of Hyderabad and other Universities/Institutions in the country will be initiated through such media as the extension lectures exchange of teachers between Universities, the U.G.C. Scheme of National Lecturers, invitation to distinguished experts in various fields to participate in the academic planning, particularly the Boards of Studies. This relationship with other Universities in the country will also enable the University to avoid duplication of courses of studies and explore new areas of research not hitherto undertaken by other Universities.

(14) The University of Hyderabad would be particularly interested in developing this inter-action with such other National Institutions as I.I.T's, Institution of National importance, etc. so as to give a functional slant to the science courses. This is to ensure that the science courses of the University remain as close

to the National pragmatic needs as possible, without losing themselves in the rare find zones of abstract research. As a National University, the University of Hyderabad will particularly value such inter-action to cultivate and justify its National image.

(15) Though the University was established by the University of Hyderabad Act which came into force on 2nd October, 1974, its initial difficulties to start functioning were many. Unlike other newly established Universities in the country, the University of Hyderabad did not have a nucleus as a College, University Centre, Post-graduate Centre or the like to start with. It was only in November, 1975 that the University got a building to house its offices. Much work was done in the meantime to formulate academic policies and programmes through working groups appointed for various disciplines and the Planning Board. Though handicapped by lack of physical facilities, teaching staff, etc. the University with the assistance of some of the Central Institutions located in Hyderabad, introduced certain courses in some of the disciplines. The site selected for the University campus was handed over to the University in March, 1975. However, the survey of the land, selection of a Master Plan after an ideas competition held on an all India level, establishment of certain Schools, Departments and Centres could be arranged before the end of 1975. In spite of several constraints the University could admit its first batch of students in November, 1975.

(16) The Executive Council considered the letter of the University Grants Commission regarding allocation of Rs. 400 lakhs in the first priority and Rs. 200 lakhs in the second priority. The Executive Council felt that -

"If the expenditure already made and the schemes already approved was also included in the first priority of Rs. 400 lakhs, a balance of Rs. 246 lakhs would only be available for expenditure under the first priority. The members of the Executive Council felt that this amount was far too meagre to be realistic and effective.....The Executive Council, therefore, decided to request the U.G.C. not to include the expenditure already made upto 31.3.1976. Besides this the sum of Rs. 200 lakhs which has already been provided by the U.G.C. in their budget for the University of Hyderabad/should continue to remain available to the University over and above the grants now proposed to be made available to the University during the remaining part of the Plan Period."

for 1976-77

(17) The University Grants Commission has so far been making adhoc allocations of funds besides sanctioning funds against certain specific schemes. Consequently, the University has had to plan its activities on a short-term basis so far. The University earnestly hopes

that the situation will improve considerably after the recommendations of the Visiting Committee have been approved by the University Grants Commission.

(18) The University is making every possible effort to attract the best talents available in the country. Several Indians working abroad have also received consideration for appointment. Vacancies of teaching posts are given wide publicity in the country and abroad.

(19) It is essential to provide housing facilities to teachers soon after they join the University. Most of such teachers may be enjoying such facilities in the places where they are working. Hyderabad being a fast growing industrial city, house rents have shot-up and suitable houses are not available on reasonable rent. It may take some time for the University to complete residential quarters though construction of staff quarters will be taken up on priority basis.

(20) The investment in the Library and Scientific equipment in the early phase of the development of the University has been worthwhile. The University is now in a position to invite talented persons who may not have otherwise felt inclined to leave their well established laboratories for a new place with in-adequate facilities for research in their respective fields.

(21) The University will organise seminars/workshops for different groups of academic men for mutual benefits. The interaction and inter-relationship between the University and other institutions will be strengthened by such seminars.

(22) The University will draw assistance of eminent men in different fields for certain periods for strengthening its teaching and research programmes. A provision for visiting fellowships will be very essential.

(23) The question of continuity of services of the Faculty being appointed from Central Universities, I.I.T's and State Universities is important. Continuity of services and other facilities will need to be given to the newly appointed staff.

(24) Being a residential teaching University, special attention will be given to the residential character of the University. It will encourage corporate life for an integrated development of the students. Common facilities and other amenities required by the students will be provided in the hostels.

(25) The University has not been able to provide medical facilities to the students and the staff. A consultant Physician has been attending to the immediate medical needs of the students. The University proposes to establish a Health Centre, especially for the benefit of the students.

(26) Adequate allocation of funds for scholarships and fellowships will enable the University to attract talented students from all over the country. All the M.Phil. students and a good percentage of students in other courses will be given scholarships/fellowships.

(27) The Library would endeavour to provide centralised Xerox and Micro-film reading facilities.

(28) In the course of time, when funds become available, the University would like to provide centralised computer facilities to be used by different Schools.

(29) There may be several projects which may require field work. Some provision is necessary for this purpose also.

(30) The University will establish its own printing Press. However, to make a beginning a small printing Press may have to be purchased.

(31) The teaching and research programmes to be initiated by the School of Social Sciences are still to be finalised. The recommendations of the coordinating group appointed by the University for the purpose are awaiting approval of the Academic Council.

(32) In order to fulfill the needs of the University as a growing organism and to achieve its ideals it is necessary to ideate and develop concepts constantly. This will involve consideration of the needs and aspirations of many persons and varying demands of the different branches of study. In order to ensure that the entire campus develops as an organic whole and to interpret the underlying philosophy of the University, the University has appointed a monitoring group.

(33) The University has also appointed Professional Architects to undertake the work of Academic buildings, residences and hostels.

(34) After approval of the detailed estimates and drawing by the CPWD and the University Grants Commission, the tenders would be invited for different works. The University will carry out the construction work departmentally wherever it is found convenient. The day to day supervision in such cases would be provided by the resident staff, which the University hopes to appoint in the near future.

(35) The first prize winner Architect has been assigned the work finalizing the Master Plan.

(36) The University will have to provide some transport facilities to the students for attending their classes at the campus which is far away from the city.

PART - V - GENERAL OBSERVATIONS

The Committee makes the following general observations:-

(1) The University of Hyderabad has been established as a part of the

"6-Point Formula". The working group appointed by the Minister for Education, Government of India, in its report had observed ' the University should be a unitary University make special provision for undergraduate courses in Humanities and Sciences..... make appropriate measures for promoting inter-disciplinary studies and research in the University..... the traditional structural pattern be replaced by creating well-conceived schools each of which should consist of a group of centres. The focus in each centre should be a major problem of study which will require an inter-disciplinary approach and which would be of special significance to the country in the present situation..... the scope of the schools may be determined by the planning board..... after a full study of educational and research activities of the Universities in the region'.

(2) The working group also observed that ' the University should offer three-year honours courses, two-year master's courses and one year M.Phil. or such other courses in addition to research facilities..... the University in the first phase should provide for integrated courses in the Humanities, Social Sciences, Commerce and Natural Sciences..... in order to plan properly the working and development of the University a planning board consisting of persons of high academic standing should be set up..... the board should ^{keep} under review the standards of education and research in the country'.

(3) The Committee is happy to record that the University has made a commendable progress during a short span of its existence with a limited staff and under difficult conditions. The progress made by the University has already been stated in the report.

(4) A planning board consisting of eminent educationists and scientists had since been constituted (Annexure - 7). This board had further constituted various working groups for different schools/centres to be established in the University (Annexure - 8 in order to work out the details of the academic requirements for the ~~making~~ various schools and centres. The reports of the working groups had been considered by the planning board and on the recommendations of these bodies steps were taken for the establishment of few schools as stated earlier in the report. The Committee is convinced that the creation of schools is in accordance with the recommendations made by the working group set up by the Government of India.

(5) The Committee went through the reports of the various working groups, special committees, co-ordination group for the Social Sciences and minutes of the meeting of the planning board. The Committee is happy to note that the university/working groups took into consideration the suggestions made by the working group of the Government of India particularly with regard to the creation of schools, centres, their programmes of teaching and research at various levels. The Committee further noted that the working groups had also formulated the details of the courses to be offered at various levels in the different schools. While doing this, the groups indicated the lines on which the different schools/centres are to be developed and their important needs in terms of men and material. The Committee was given to understand that the University had requested the groups to keep the following two points in their mind while formulating their reports:-

- 1). While framing the courses of study, one should avoid duplication and over-lapping and provide for integrated courses with inter-disciplinary approach;
- 2). The working group should also indicate the requirements of buildings, equipments, books, furniture, staff etc. for the efficient implementation of its recommendations.

(6) Some of the observations made by the different working groups in their reports are quoted below:-

1. Working Group - Physical and Chemical Sciences -

"There should be two separate schools for Physics and Chemistry.....There should be full inter-action between the two schools of Physics and Chemistry. Electives based in one department should be made compulsory for the students from the other department.....Each school should develop a core curriculum and an elective curriculum. It should offer a large number of electives".

(Prof. Gurbakhsh Singh - Convener)

(2) Working Group - Physics :-

/University

"The proposed courses should give the students the basic concept of physics. Also, the course should have relevance to the needs of the society. Teaching of inter-disciplinary sciences should be encouraged.....The teaching of some courses may be carried out jointly between the physics and chemistry schools Courses on History, Philosophy and Approach of Science should be kept in view. Such courses should be taught when conditions are appropriate.....Since it is envisaged that the course will be inter-disciplinary no single can employ all the staff that can teach them. It is recommended that experts from institutions like B.A.R.C., Bombay, National Laboratories, other Universities should be requested to come to the University for one semester."

(Prof. A.R. Verma - convener)

(3) Working Group - Environmental Geo-Sciences:-

"Approved starting of M.Phil course for Environmental Geosciences of one year duration. To this course, M.Sc. Physics, Geology, Geophysics, Oceanography and Meteorology be admitted for an intake of 10 students(maximum) in the first year..... Approved the M.Sc. course of two years duration as Unit Course, consisting of Units, viz. Mathematics, Geology, Geophysics, Meteorology, Hydrology and Oceanography as core subjects and several subjects as electives with emphasis on Environmental Problems and Technology".

(Dr. Hari Narain - Convener)

(4) Working Group - Mathematics and Computer/Information Sciences:-

"It should cater to studies in basic mathematics and over a broad spectrum of application of mathematics including statistics, operation research and computer and information sciences. As a first priority it must run good M.Sc. and Post-M.Sc. courses leading to Ph.D.....The school should have teaching of M.Sc. and Post-M.Sc. courses and seminars in various disciplines in mathematics and its applications. It should also offer needed courses in Mathematics for other disciplines like Physics, Chemistry, Biology, Economics, Statistics etc."

(Prof. E.V. Krishnamurty - Convener)

(5) Working Group - Human Sciences:-

"The University should have two year M.A. course in Human Sciences consisting of the following subjects:- First Year - (i) Basic Psychology, (ii) Biology and (iii) Philosophy. Second Year - (i) Ecology, (ii) Social Economics and (iii) Social Psychology. All these subjects should be compulsory. In addition there should be dissertation in any of the above subjects in the second year. The degree should be M.A. in Human Sciences."

(Prof. S. Gopal - Convener)

(6) Working Group - Regional Studies :-

" A centre for regional studies may be established in the School of Social Sciences. Its objective should be promotion of studies and investigations in the literature, culture, art and architecture, history, sociology, religions and economics of the Deccan and other parts of Andhra Pradesh, in an inter-related way. The studies and research in this centre should be (a) inter-disciplinary and (b) give special attention to the modern period (of the last 200 years)."

(Prof. K. Satchidananda Murty - Convener)

(7) Working Group - History:-

"The working group noted that the centre for Regional Studies proposed to be established in the School of Social Sciences will promote the study of the literature, culture and history with special emphasis on the modern period of the people of the Deccan Area and their special and economics relations and also promote the study of Regional Art and Architecture.....The centre for History should have facilities for the study of Ancient, Medieval and Modern History..... It should specialise in Indian and non-Indian History and in particular cover the ancient and medieval period".

(Prof. S. Gopal - Convener)

(8) Working Group - Philosophy:-

"The centre for Philosophical Studies should be within the School of Humanities..... To begin with a one year's post M.A. course, viz. M.Phil. may be started from 1976, and the M.A. course in 1977 at least..... The M.A. course may be organised on the lines suggested by the U.G.C. 5th plan pannel on Philosophy".

(Prof. K. Satchidananda Murty - Convener)

(9) Working Group - Economics:-

"The training of students in the perception and the rigorous analysis of 'relevant' economic problems should be the main object and in the process wherever possible they should be exposed to alternative approach to the same problems. The working group stressed the importance of mathematics and statistical teaching techniques as well as historical approach in the analysis of economic problems. The working group recommended that the under-graduate and post-graduate courses should be guided by these considerations. The working group noted the multi-disciplinary nature of real life problems..... it was agreed that upto the research stage i.e. in the undergraduate and graduate course, the emphasis should be on building professional competence in Economics while encouraging students to familiarize themselves with other related disciplines..... Multi-disciplinary approach should receive greater attention in research work. The working group underlined the fact that the success of this approach will depend eventually on the research interests of the academic staff. They, therefore, recommend that due weight should be given to this aspect in the selection of teachers for the department

10) Working Group - Life Sciences-

"The School of Life Sciences is being planned as a centre for postgraduate education and research in a unified school which will impart modern teaching and research in biology in an integrated manner and develop its programme in fruitful directions with inflow and interaction with various other schools. The school will have a unified structure consisting of several research groups in number of areas all of which will interact and participate in a common programme..... At the B.Sc. level the School will provide an integrated course in Life Science emphasising the unifying concepts reducing the weightage of descriptive biology and accentuating the inter disciplinary approach. The necessary background knowledge in physical sciences and Mathematics will be provided for those students..... Admission to M.Sc. shall be open to all B.Sc. students either in Physical or Biological Sciences. The M.Sc. course shall consist of a common core (including principles of morphology, Taxonomy, Evolution, Genetics, Bio-Chemistry, Molecular Biology, Molecular Biophysics, Physiology, Cell Biology and Developmental Biology) and a set of alternatives for specialization which students can choose..... The degree conferred will be a degree in life sciences with respective specialisation like Genetics, Molecular Biology, Cell Biology, Microbiology and Biophysics etc..... The School of Life Sciences is being planned as a strong centre for research in modern and rapidly developing fields like Genetics, Molecular Biology, Cell Biology, Microbiology and Developmental Biology, Bio-Chemistry, and Biophysics. It will interact with Physics, Chemistry and Mathematics Schools".

(Prof. O. Siddiqui - Convener)

(11) Working Group - English :-

"The broad objectives of the programmes should be (a) to train students for the effective use of English both spoken and written, (b) to acquaint them thoroughly with a linguistic description of English (c) to train in the art of study of literature and in relating literature to its relevant backgrounds and to other aspects of the age concerned and (d) to enable them to specialise to some extent in a chosen area of interest. The Group expects that with these objectives, it should be possible for the M.A.'s of the University to equip them with a variety of programmes, such as teaching, writing, journalism etc.

(12) Coordinating Group - Social Sciences-

"Keeping in view the two basic objectives of simultaneously maintaining: (1) disciplinary standards, and (2) promoting inter-disciplinary studies, it was agreed that in pursuance of the first objective departments should be established around one major Social Science discipline for purposes of teaching and discipline - based research, and in pursuance of the second objective Centres of Studies should be created around significant problem areas of national relevance and academic excellence, which should have their own core staff apart from drawing on the talent from the faculties of the discipline - based departments Multi-disciplinary/centres/particularly for meaningful research on areas of critical relevance to national development. It was agreed that the number of Centres would increase as and when new requirements demand".

/should be an essential feature of the School of Social Sciences

(13) School of Chemistry:

"The School of Chemistry is being planned as a centre of undergraduate and postgraduate chemical education and as a centre for research in the frontiers of Chemical Sciences including interdisciplinary aspects. The main theme of teaching is the structural approach to chemistry wherein macroscopic behaviour is explained in terms of microscopic structure".

(Prof. Gurbaksh Singh - Convener)

The observations made by the working groups and accepted by the planning board of the University indicate the lines on which the University will develop. This is in accordance with the recommendations made by the working group set up by the Government of India.

(7) The University of Hyderabad is not meant to be just one more University in the country patterned on traditional lines, with an insulated department to cater for each subject. Instead, the concept is to have schools in broad areas. Within these schools there will be adequate provision to start and stop centres; each of these will be in the nature of a multi-disciplinary task force that can be brought to bear for defined periods of time on a major problem or area of endeavour. It is important to define areas in which it will be possible to work right at the forefront of the human knowledge and endeavour. One has to choose wisely and restrict to areas at the forefront that are likely to be so for a long period of time and in which work can be carried out with no undue handicaps. It is important that the schools and the areas of their interest should be broad enough to ensure that task forces can be brought together to work within the overall front at points which turn out to be typical and of significance; if the breadth of interest is narrow, this will not be possible. The committee presumes that the centres within a school created for dealing with important problems, do not have a permanent character. New centres will be created after the old ones have achieved their objectives.

(8) The University of Hyderabad will be concentrating on integrated studies involving multi and inter-disciplinary concepts in its various schools and centres. The committee, however, feels

development of fundamental disciplines is also necessary so that techniques and methodologies are further strengthened and improved. The Committee is not in favour of creation of departments in basic disciplines as this would militate against the growth of these schools and centres. The disciplinary composition of the faculty in the schools has to be such as to provide representation to the total spectrum of important disciplines, which would be in any case essential by the manner in which the schools have been formed. Teachers belonging to a given discipline dispersed over several schools and centres could come together to discuss and formulate plans for starting M.A., M.Sc., M.Phil. and Ph.D. programmes in the respective disciplines with the requisite orientation to the integrating objectives of the different schools. What is needed is an opportunity for the persons of the same discipline dispersed in different schools and centres to come together in periodical seminars and for formulating joint programmes of teaching and research. Nothing should be done which militates against the new orientations; required for giving new approaches and new dimensions to the basic disciplines as otherwise a re-creation of the traditional system of dealing with basic discipline would have a greater pull because of its traditional roots in the established system of the University education in the country. This point has been further discussed in the report of the School of Social Sciences also. Any tendency towards moving to the conventional departmental pattern be dealt with firmly at the initial stages so that the aims of the University do not get diluted. Concerted efforts on the part of the faculty members would be essential for making inter-disciplinary studies and integrated courses more meaningful and purposeful.

(9) The working group on the University had observed that 'the University should offer three-year honours courses and two-year Master's courses and one year M.Phil. or such other courses in addition to research facilities'. The Committee endorses this recommendation of the working group but, however, suggests that during the first few years, emphasis should be laid exclusively in developing post-graduate studies like M.A./M.Sc., M.Phil., and Ph.D. After the postgraduate programme has taken roots, the University should consider starting honours courses at the under-graduate level with a smaller in take in the initial stages. The University,

may in 1980, introduce a well designed under-graduate programme of teaching for the +3 stage at the University level. By this time, the outputs of +2 stage will be available for admission in the University. The University may work out a broad based flexible undergraduate programme at the honours level. The University should venture to serve as a pace-setter in this regard. The Committee would however caution the University against too rapid an expansion of the levels at which it makes its academic offerings.

(10) The Committee welcomes the introduction of M.Phil programmes in the University. They involve course work and a dissertation. Most of the programmes are geared to preparing the students for more advanced research leading to a doctorate degree. The University has, however, another responsibility of up-dating the knowledge of younger scholars including teachers from colleges and other Universities. Another M.Phil. Stream could therefore be visualised where the M.Phil. may be considered to be a terminal degree. The emphasis, in the course may be on knowledge renewal, especially on introducing the young scholars to new conceptual frame works and methodologies in their respective fields and also to relevant inter-disciplinary approaches to problems.

(11) A criticism is often voiced by the non-academic world that much of the research work done in many Universities and Institutions in India have not been properly planned on the basis of its social relevance and that problems relating to the natural endowments and social realities, of India do not get adequate attention in research. This criticism cannot be dismissed as totally unwarranted. The Committee would like to invite the attention of the University towards this.

(12) There exists a strong alienation of the Scientific community in India from urgent National problems. This is because the bulk of Scientific work done in the country is related to the world of Science as a whole and has little relation to the felt National needs. The Committee feels, that it would be desirable for the various schools of the University to under-take/in such areas which relate to the National needs.

(13) There are several research Institutions in Hyderabad. The group on the establishment of the University had suggested that the University may collaborate with these Institutions. The Committee is in full agreement with this. The Committee noted that the University has already entered in such collaborations with some Institutions in the organisation of the M.Phil., and M.A. programme. The Committee however, feels that there is a need to have such collaboration in a planned manner for a long term perspective. In view of this the Committee suggests that an expert group may be appointed to work out the details of such collaboration. This suggestion was endorsed by the Vice-Chancellor, Osmania University whom the Committee had met. The Committee further suggests that the staff of the National Laboratories and other Institutions at Hyderabad may be recognised as the teachers of the University as is being done for the staff of T.I.F.R. Bombay, by the University of Bombay.

(14) Hyderabad is a fast developing Industrial city. The University should not develop in isolation. It should bridge the gap between the Industry, University and National Laboratories, etc. The Committee suggests that it would be desirable to involve the industry also in the academic activities of the University.

(15) The Committee also agrees with the views of the working group that "the University in the first phase should provide for integrated courses in Humanities, Social Sciences, Commerce and Natural Sciences". In this connection the University is suggested to consider the guide lines of the University Grants Commission on the re-structuring of courses at the University level. The University should make innovations, particularly in the restructuring of courses and linking Education with "work experience" and 'productivity'. The experiments could be successfully launched in a University like Hyderabad. The re-structured courses should be broad based, flexible, and suiting to the needs of the region and the country.

(16) The Committee noted that the students will be admitted on the all India basis and that there will be reservations for the Scheduled Caste and Scheduled Tribe students. The Committee suggests that the University may introduce programmes of preparatory,

supplementary and remedial education for boys and girls of ~~various~~ underprivileged sections of the society. These programmes should be given high priority by the University. The working group on the University had suggested "adequate provision for scholarships and fellowships" in order to attract really talented students. The University has accordingly made proposals in this regard, which are fully supported by the Committee. The University is cautioned to plan its student's in-take in such a way so as to maintain its all India Character which is essential for a Central University. In this connection the Committee would make a special reference to the undergraduate level.

(17) While admitting the students to the M.A., M.Sc., M.Phil. and Ph.D. courses, it would be essential to keep the employment potentialities in mind. A fair number of students may be tempted to undertake M.Phil and Ph.D. studies because stipends and Scholarships are available. But their eventual placement in the society should also be of some concern to the University. The total number of students undertaking higher studies in these and other areas need to have some relationship with the over all requirements of the country, to guard against unemployment, misplacement or brain drain among highly qualified students who have been trained at a high cost to the society. The Committee hopes that the University will keep this in view while planning its student in-take in various courses.

(18) "The recruitment of the staff should be on an All India basis" - this is the recommendation of the working group and also the policy of the University. The University has to provide integrated, inter-disciplinary courses and to collaborate with National Laboratories and Industry. While doing this the Committee has already suggested the recognition of the staff of the National Laboratories, etc. as teachers of the University. The Committee also suggests joint appointments in more than one School in the University. This will promote interdisciplinary approach. The University may also have a provision of a few (3-4) floating positions at the senior level to be offered to outstanding persons in the fields ~~and~~ without having gone through the procedure of appointments in the University. Such positions may be offered by the Vice-Chancellor himself.

In view of the nature of the courses to be provided by the University and also keeping in view the limitations to the availability of trained persons it would be imperative for the University to invite teachers, scholars and Scientists from other Universities, Institutions and Laboratories. Adequate provision will have to be made for inviting such persons. The Committee is further of the view that such collaboration should be a both way Phenomena.

(19) The University has been able to import some of the most sophisticated Instruments to be used as a Central facility, by its various Schools. More equipment is proposed to be added to this facility. In addition, a central workshop is also to be developed. The Committee suggests that the University may keep in view the suggestions made by the University Grants Commission for development/^{of} such facilities in the Universities. The University of Hyderabad is expected to develop into one of the most well equipped centre in sophisticated Instrumentation in the Country. The University should consider the manner and extent to which the Faculty of the other Universities in the country may be given opportunities to come over there and avail of the University's equipment facilities.

Planning for the purchase of equipment should involve the participation of not only the individual Schools/Centres making the proposal, but also of a collective group representing different schools/Centres. The University is advised to appoint an equipment planning group in order to ensure that timely decisions are taken about the optimum use of equipment.

The University may set up a Central Service Unit for the Service and maintenance of the equipment and instruments to ensure that equipment do not remain un-used for want of proper maintenance and repairs. Adequate provision should be made for the spares at the initial stages. This should be made a part of the agreement of the supply of the equipment.

Trained Technicians are essential for operating such sophisticated instruments. The University should keep this in view while recruiting such staff. It would also be essential to get some of the staff trained at the National ~~Ex~~ Laboratories or other similar establishments where such facilities are already available.

(20) While the University has adopted the semester systems, admission tests, internal assessment, the Committee hopes that the University will keep in view the concept of 'work-experience' in its programmes on the lines of the thinking of the U.G.C.

(21) The working group had observed that "Construction of residential accommodation for students as well as staff should be given high priority and properly phased." The University has made proposals in this regard which have been considered and supported by the Committee.

(22) The University has acquired 2,300 acres of land for its campus. The University plans to develop this whole area. In this connection the Committee took note of the recommendation made by the working-group i.e. 'University should have an area of at least 1,000 acres'. The University is suggested to develop the area in phases so as to maintain the Campus within the limitations of funds. This is more important when all the expenses are to be met from the Plan funds. This will also give the University more funds for its academic programmes.

The working group on the establishment of the University observed in its report that the State Government would provide developed land to the University. The Govt. of India who were requested to ascertain the position from the State Government in this regard had now intimated the U.G.C. that the Government of Andhra Pradesh is not prepared to accept liability for the development of land as in their view there was no such commitment.

The University should exercise maximum economy in the construction of its buildings. It should make special efforts to see that maximum use is achieved of the buildings proposed to be constructed. The building programme will need to be carefully phased.

(23) The Central Library of the University will not be established at this stage. The University has plans to have a Library in each of the Schools. The University will provide Central Indexing,

Zeroxing and Micro-filming facilities. The Committee is of the view that Library Administration should be centralised and accountable to the University as a whole. The purchasing and processing should also be done centrally. The University should ensure proper and coordinated services of the Libraries of the Schools.

(24) The University has just been created. It has to establish its Schools by providing staff and other facilities. Funds are therefore to be provided for the establishment of the University at this stage. This point has been kept in view by the Committee while making its recommendations.

(25) The working groups of the University have made recommendations for staff and other facilities for the various Schools keeping in view their programmes of teaching and research. The Committee is in general agreement with such recommendations. The details of the courses to be actually followed will need to be worked out by the Faculty of the Schools. The details in a few schools where Faculty has already been appointed have however ~~given~~ been worked out to a considerable extent. These have been given later in the report.

(26) The site for the University of Hyderabad is far removed from the twin cities and it is essential that construction of buildings, hostels, staff quarters etc proceeds at a faster speed and the entire campus is developed in the shortest possible time in the overall interests of the student - teacher community and the academic life of the Hyderabad University. This is further important due to the circumstances which led to the creation of the University.

(27) It is necessary to think of and plan for appropriate linkages within the different schools of the University. It will be particularly important where inter-disciplinary teaching and research programmes are involved.

(28) Inter-Institutional and Inter-disciplinary research projects may also be undertaken in critical areas where such an approach may give quick results.

(29) The University may devise a mechanism by which it would be possible to promote inter-action between different schools and centres in the University.

(30) The two other Universities having similar structures and also engaged in inter-disciplinary studies are Jawaharlal Nehru University at New Delhi and the North Eastern Hill University, Shillong. The Committee suggests that the three Universities may have a coordinating committee at the appropriate level in order to co-ordinated their programmes of teaching and research.

(31) The students admitted in the present on going M.Phil. programmes do not reflect an India Character. The Committee hopes that for future admissions in the various courses, the University will take care of it.

(32) The Schools in their proposals included sophisticated instruments and equipments. The Vice-Chancellor assured the Committee that all major equipments will form the Central Facilities and that ordinarily there will be no duplication of such costly equipment in the various schools of the University.

(33) Several independent individual research projects were submitted by the Faculty which have been appointed so far by the University. These include Fellowships at various levels, equipment and other facilities etc. The Committee has not taken into consideration such individual research projects. The Committee suggests that the University may approach separately the U.G.C. or other Agencies like the C.S.I.R., I.C.S.S.R., I.C.H.R., O.N.G.C., and A.E.E., etc. for project support.

(34) Whereas the Universities have every justification to develop in the various fields of activity in their own right, it may be worth considering, at the present status of Economic Industrial, Scientific and Technological developments within the country, that greater relevance is emphasised on the national needs and their priorities. It may be desirable to take up dissertation work for M.Sc., M.A. programmes, research work for M.Phil. and Ph.D programmes and research projects of the faculty members in a

coordinated manner so that comparatively smaller dissertation/thesis studies form components of a major problem/project which is directed towards priority areas and pressing needs of the country. Different Schools could possibly join hands in this effort to make the programmes inter-disciplinary and pin-pointed to certain socio-economic goals.

It may also be worth while considering research studies and organised courses on project area basis and the expertise may be drawn not only from within the School but from other Schools as well where inter-actions are considered desirable.

(35) The University has to undertake a huge building construction programme. It would be desirable for the University to clearly define its policy towards building construction programme in consultation with the U.G.C.

(36) The importance of collaboration with other Universities and National Laboratories, etc. has already been emphasised. It would also be important for the University to aim in developing an organic relationships with all the Universities in the country through its research and post-graduate programmes.

PART - VI PROPOSALS AND RECOMMENDATIONS

The proposals made by the University were considered by the committee and its reports are given in the following pages.

(a.) SCHOOL OF MATHEMATICS AND COMPUTER/INFORMATION SCIENCES

1. The committee has already mentioned in the earlier part of its report about the M. Phil. programme in Computer Methods being implemented in collaboration with E.C.I.L. Hyderabad. The committee has also referred to the approach of the School on page of the report. The committee also took note of the following observations made by the working group of the University on the school.

(1) The objective of the training is to enable the student to obtain a broad culture in mathematics and its applications. It should further serve as a needed training for prospective college teachers and for training and research in Applied Sciences, Industries and Computer oriented Technology. It is very important that computer oriented Mathematics be given adequate emphasis.

(2) In the first few years the school should plan for an intake of about 40 students in the M.Sc. courses. Admission to Post M.Sc. courses and research courses should be highly selective and should not exceed 15 to 20 a year. It is necessary that admission be restricted to really talented students and as far as possible all students should have financial support for staying in hostels. This seems very necessary if the school is to function really on an All India basis and at a high level.

(3) The courses will be credit-unit based so as to allow the students to complete the course at their own pace namely in three to four years with about two years for M.Sc. and at least a year for Post M.Sc. training. A variety of courses should be available so that students can take those which suit their tastes.

(4) It is desirable to have a faculty of about 20 members consisting of 4 Professors, 10 Readers and 6 Lecturers. There should be in addition, adequate provision for senior and Post Doctoral Fellows so as to create the desired climate of scholarship and research.

(5) There must be provision for visiting Professors to be invited for shorter or longer periods for seminars, or courses of lectures. Adequate financial assistance should also be available for inviting scholars for a lecture or two and for organising seminars extending over a week or 10 days and for publication of lecture notes and other reports.

2. The committee could not discuss the proposals with the Professor appointed in the school as he could not attend the meeting of the committee. The committee discussed the plans of the school with the Vice-Chancellor and the faculty of the other schools. On the basis of these discussions the committee makes the following suggestions:

(a) The objectives of this school, as set forth by the relevant working Group, are to cater for studies in basic mathematics and over a broad spectrum of applications of mathematics including Statistics, Operations Research, and Computer and Information Sciences. It should further serve as a needed training centre for prospective college teachers and research in Applied Sciences, Industries and Computer-oriented Technology.

(b) According to the working group "the School should have teaching of M.Sc. and Post M.Sc. courses and seminars It should also offer needed courses in Mathematics for other disciplines like Physics, Chemistry, Biology, Economics, Statistics, etc." The working groups of the other schools have emphasised greater inter-action and collaboration

with the school of Mathematics. The committee is in full agreement in this regard. The committee would however make the following suggestions for promoting such inter-actions:

- (i) With the School of Physics in such fields as propagation of Electromagnetic Waves, Stochastic Processes in Physics, information Theory, Advanced Methods of Mathematical Physics including Optimization and Applied Group-theoretic Methods, etc;
- (ii) With the School of Chemistry in various aspects of Physical Chemistry and Chemical Process control;
- (iii) With the school of Life Sciences in various aspects of Bio-mathematics and bio-cybernetics;
- (iv) With the school of Environmental Geo-Sciences and the N.G.R.I., Hyderabad in such fields as propagation of Seismic Waves, Rock Mechanics, Subsoil Fluid Flow (Flow through Porous Media) etc.;
- (v) With the school of Social Sciences, in general, and in Economics, Psychology and Sociology, in particular;
- (vi) With the E.C.I.L., Hyderabad in the fields of Computer soft-ware and Information Processing;
- (vii) With the centre in Economics for the study of Mathematical Economics and Econometrics.
- (viii) With the School of Humanities and the Central Institute of English and Foreign Languages, Hyderabad, in such fields, as Symbolic Logic, Linguistics and Machine Translation of Languages;

These are some of the illustrations for promoting inter-school collaboration to which more could be added.

3. Application of mathematics to other sciences and to technology requires in most cases a good amount of numerical analysis. It is not economical and not practicable and so not advisable to solve each and every numerical problem on big electronic digital computers. Training should therefore be imparted to students to use desk-top Calculators/Computers, both programmable and non-programmable. It is to be borne in mind that students after finishing their training in this school will have to go to the outside world where both computer facilities/requirements are limited. It is therefore recommended that the school must have a Numerical Laboratory in which students will learn to solve numerical problem with desk-top calculators/computers both programmable and non-programmable. Suitably equipped, this laboratory will be of great use to research workers for solving shorter problems.

4. To start with, the school may take up the following areas of specialisation with over lapping to some extent:

- (1) Basic Mathematics
- (2) Propagation of Electromagnetic Waves, Propagation of Seismic Waves, Rock Mechanics, Fluid Dynamics in its different aspects and Applied Group-theoretic Methods;
- (3) Probabilistic studies and Statistics.
- (4) Optimization and Operations Research.
- (5) Computer/Information Sciences.

Each area (applied) is expected to develop its own basic methods.

5. The University has to pay large amounts to the E.C.I.L. for Computer time for the M.Phil. programme. The committee was told that more than a lakh of Rupees has already been paid for this purpose. This amount will further increase with the increase in the strength of the faculty and increase in the intake of students. The committee suggests that the University may have a Card-Punching machine to be provided as

a Central facility. There may be a need of an Electronic Digital Computer later when the Schools and Centres have developed fairly and there is an ample scope for the proper utilisation of the Computer.

6. The type of programmes envisaged by the School will require a faculty of about 20 members suitably grouped into Professors, Readers and Lecturers besides other supporting staff. It would be desirable that the faculty fairly represents the areas to be developed by the School. The School will also need well equipped Library and Laboratory facilities, etc

7. The committee recommends that the University may be assisted for appointing staff - academic, Technical and other, as also for the purchase of Books & Journals, Equipment etc. to enable it to implement the programmes of teaching and research. The building needs of the School have been discussed separately in the report.

8. While recruiting faculty, care should be taken that all major areas of research to be pursued in the School are evenly represented on the faculty at all the levels and that each major research group in the school is a viable unit.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
(A) <u>Non-Recurring</u>		
Books & Journals	5.00	3.00
Equipment	2.00	3.00
	<hr/>	<hr/>
Total:	7.00	6.00
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professors	4	
Readers	10	
Lecturers	6	
Technical Staff	2 S.T.A.	

9. The equipment would include items such as Electronic digital computers, desk top calculators/computers, etc. This would be mostly for M.Sc. & M.Phil/Th.D. programmes.

10. The University may need an electronic digital computer with peripherals as a Central facility in the sixth plan, depending upon the progress made by the various schools.

(b.) SCHOOL OF ENVIRONMENTAL GEO-SCIENCES

The lines on which the School of Environmental Geo-Sciences, University of Hyderabad will be developed are given below:

1. The increasing population, new pressures on dwindling renewable and non-renewable resources and unprecedented explosion of knowledge on the global scale^{are} demanding an educational revolution in the classical disciplinary style to study geology, geophysics, meteorology, oceanography and ecology. New interdisciplinary approach must evolve towards the solution of human problems of:

- (1) Maintenance of renewable resources(land, soils, water, forests, wild life and fish, etc.)
- (2) Conservation and exploitation of non-renewable resources (coal, petroleum and minerals, metals, etc.)
- (3) Reducing the effects of natural disasters(earth-quakes, floods, storms, etc.)
- (4) Lessening perpetual damages by erosion, drought and subsidence.
- (5) Coping with natural (volcanic dust, electromagnetic noise, etc.) and man-made pollution (noise, smoke, pesticides, etc.)

In the first phase of environmental studies, ecological aspects will be rather restricted but emphasis will be given to comprehend the interaction of man with the physical phenomena.

2. Academically one-year post-M.Sc. (M. Phil) and two-year M.Sc. courses in Environmental Geosciences will be organised for M.Sc. and B.Sc. students with a built-in mechanism for developing a systems-approach throughout. The courses will be directed towards system-level of understanding of the environment drawing especially upon such disciplines as geology, geophysics, oceanography, meteorology using the knowledge and techniques of physics,

Chemistry, mathematics, communication engineering, Information Theory, etc. The courses will be designed in the context of our environmental and socio-technical problems including study of:

- Principles of Environmental Sciences
- The lithosphere (structure, resources, flow of matter and energy)
- The hydrosphere
- The atmosphere and the fluid-solid interface
- The biosphere
- Environmental impact assessment
- System Management and future perspectives
- Biogeochemical cycle and the ecosystem.

3. The development of such courses will need inter-disciplinary group of Senior Scientists at the Professor-level and some young Scientists at the Readers and Lecturers' level. Besides the regular academic positions in the University, it may be desirable to invite Scientists from the existing organisations like National Geophysical Research Institute(NGRI), National Institute of Oceanography (NIO), India Meteorological Department (IMD), Geological Survey of India (GSI), Universities, etc. It may also be desirable to start the post-doctoral Research Programme with problems of National and scientific importance.

4. The topics for coverage in M.Sc./M. Phil courses are given in Annexure 9

5. The committee makes the following observations on the programmes of the School:

- (1) The objectives of the University of Hyderabad are to provide integrated courses in Humanities, Social Sciences, Commerce and Natural Sciences, and to initiate new courses of studies avoiding duplication of mere traditional subjects

and conventional methods of teaching. A School of Environmental Geosciences has been proposed with the above objectives in mind.

- (2) The natural resources comprising of non-renewable resources such as minerals, coal, petroleum, etc. and the renewable resources such as land, soil, water, forests, etc. owe their existence to the geology, geophysics and geochemistry of the land and the climatic conditions which existed in the past. An inter-disciplinary school of environmental geosciences has been aimed at providing the necessary courses in geology, geophysics, geochemistry, oceanography and meteorology at the M.Sc. level to provide a comprehensive knowledge of the geosciences, their interaction on resources, exploration, exploitation and management practices and the environmental conditions and ecological balance which need to be maintained for betterment of life.
- (3) It is strongly recommended that the School of Environmental Geosciences be established immediately and the courses at the M.Sc. level and integrated research projects at post-M.Sc. level be undertaken from the academic session beginning June/July, 1977. The essential staff need to be appointed immediately so that the proposals already available with the University for the School of Environmental Geo-Sciences are re-assessed and implemented.
- (4) It may be desirable that the awareness of the Social needs of the country will be kept in mind during class lectures and during the selection of the projects for M. Phil. and Ph.D. The involvement of faculty members and the students in understanding these needs and working in areas of relevance seem essential.

(5) The Jawaharlal Nehru University in Delhi has established a School of Environmental Sciences. They have a greater emphasis on ecology and impact of biological processes on the environment. In the report of the ~~visiting~~ Committee for the JNU in April, 1978, it was emphasised that the courses should be evolved around the study of lithosphere hydrosphere and atmosphere and their interactions and their impact on mankind. The studies should include natural and man-made hazards and pollution problems vis-a-vis technological advances. The courses at the University of Hyderabad should be complementary to those in JNU. They should be concentrated more towards the study of natural resources, their impact on the environment and harnessing them for the benefit of the mankind.

(6) The courses should be based on the unit system and the students should be free to select courses in different disciplines as may be required to attain the general understanding of the entire Geosciences their inter-play with the environment and the requirements for the subject of their specialisation in the final year.

6. The committee recommends that the University may be assisted for appointing staff - academic, Technical and other, as also for the purchase of Books & Journals, Equipment etc. to enable it to implement the programmes of teaching and research. The building needs of the School have been discussed separately in the report..

7. While recruiting faculty, care should be taken that all major areas of research and teaching to be pursued in the School are evenly represented on the faculty at all the levels and that each major research group in the School is a viable unit.

8. Major equipment which can be used by other Schools be treated as a Central facility.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
(A) <u>Non-Recurring</u>		
Books & Journals	5	3
Equipment(M.Sc./M.Phil.)	4	3
Total:	<u>9</u>	<u>6</u>
(B) <u>Recurring</u>		
Professors	4	-
Readers	6	-
Lecturers	8	-
Technical Staff	2 S.T.A.	-

(C) Specialisation of the Faculty:

These should be in the areas of Geology, Geophysics, Meteorology, Oceanography and Ecology.

(c.) SCHOOL OF PHYSICS

1. The programme in the school will cover a wide spectrum keeping in view the National needs. It will provide courses for the other Schools of the University as stated earlier in the report on page _____. The University, in its plans for the School of Physics inter-alia made the following observations:

- (i) Physics plays an important role in the basic Science education. Modern Research in all branches of science and technology are intimately connected with different research activities in basic physics. The current day developmental programmes in the areas of space, energy, communications, pollution, etc. are intimately related with the advancement of Physics. All these topics are important for a developing country like India. The University of Hyderabad would like to break some new grounds in this direction.
- (ii) The following six areas of Physics have the possibilities of being developed:
Solid state Physics and Low temperature Physics,
Modern spectroscopy and Chemical Physics,
Lasers, Laser Physics and Optics,
Nuclear Physics and particle Physics,
space Physics, and
Biophysics (Jointly with the School of Life Sciences).
- (iii) A faculty strength of 23 (5 Professors + 10 Readers + 8 Lecturers) may be recruited during the next 3 years. Each of the above areas on an average may have 4 faculty members. It is expected, on an average

that about one fourth to one third of the faculty will be Theoretical Physicists, chosen in such a manner that they interact with the experimentalists in different areas.

- (iv) The rationale of naming all the six broad areas of research is based on giving the students opportunity to have a broad spectrum of training. Each of these areas represents the current interest of Physics research and can be developed with a view to contribute to the front line research in Physics. The exact development in a given area will however depend on the availability of specialists in the respective areas. It will be very desirable if the faculty members are recruited in a manner that there is an overlap in the research interests of different groups.
- (v) One of the draw backs in all Physics education in the country has been the lack of training in the design and fabrication of physics instruments in the Universities. The school of Physics in the University will pay special attention to this aspect of physics education. This will also be reflected in the research activities and programmes of the school.
- (vi) Electronics plays a major role in the instrument development in Physics. It is expected that some of the faculty members in Physics would have had a good back-ground in electronic instrumentation in some of the areas of physics indicated above.
- (vii) Some basic major equipment that would be necessary for research and teaching laboratories in the School of Physics are given in the following representative List:

Mossbauer Spectrometer	Magnetic resonance (NMR, ESR, NQR, FTR)
Electron Diffraction	Laser Sources development
Lattice Imaging	Laser Raman instrument
Solid State devices Lab	Superconducting magnets
Liquid He Plant	Electron microscopes
Computerised X-ray diffraction	Neutron microscopes
instrument with Versatile	Neutron diffraction
Sample holders & Goniometers	PES, ESCA, Auger and XES
Multichannel analysers	

2. The committee endorses the following observations made by the working Group on Physics and Chemistry.

"Both the schools should try to develop a strong theoretical base and a strong experimental sense of application and basic instrumentation.....
.....special emphasis be laid on the teaching of mathematics for students in both the Schools. The school of mathematics should organise these special courses".

3. The committee makes the following observations:

- (i) The committee fully endorses the recommendations made by the working Group of the School as outlined in the above paragraphs. However, further details will need to be worked out by the Faculty of the School.
- (ii) The M. Phil. programme may continue as at present. M. Sc. and Ph.D. programmes may be introduced from 1977 July. The B.Sc. Honours programme be instituted from 1980.

(iii) The intake in various courses may be the same as in the School of Chemistry.

(iv) Areas of focus and details of course programme may be worked out by the faculty of the School later.

4. The committee recommends that the University may be assisted for appointing staff - academic, Technical and other as also for the purchase of Books & Journals, Equipment etc. to enable it to implement the programmes of teaching and research. The building needs of the School have been discussed separately in the report.

5. While recruiting faculty, care should be taken that all major areas of research and teaching to be pursued in the School are evenly represented on the faculty at all the levels and that each major research group in the School is a viable unit.

6. Major equipment which can be used by other Schools be treated as a Central facility.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	<u>(Rupees in lakhs)</u>	
(A) <u>Non-Recurring</u>		
Books & Journals	8	3
Equipment (M.Sc./M.Phil.)	8	3
	<hr/>	<hr/>
Total:	16	6
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professors	5	2
Readers	10	-
Lecturers	8	-
Technical Staff	2 S.T.A.	-
Other Staff	1	-
		<hr/>

(d.) SCHOOL OF CHEMISTRY

1. The School of Chemistry is being planned as a Centre of undergraduate and post-graduate chemical education and as a centre of research in the frontiers of Chemical Sciences including inter-disciplinary aspects.
2. The main theme of teaching is the structural approach to Chemistry where macroscopic behaviour is explained in terms of microscopic structure. Structure provides the basis for teaching dynamics and synthesis which are the two other important aspects of modern Chemistry. Since Chemistry is basically an experimental science, extensive use will be made of modern sophisticated instruments both in teaching and research. To underscore the importance of principles of chemistry, sufficient emphasis will be given to the teaching of Theoretical Chemistry. The University stated that it is important to recognise the interplay of theory and experiment at every stage if one has to properly understand modern Chemistry. With such an approach, it will also be possible to promote and foster inter-disciplinary programmes in teaching and research.
3. To the under-graduate students, the school of Chemistry will provide a broad-based science education involving several core subjects (Physics, Chemistry, Mathematics and Biology) and at the same time enable them to become professionals through sound courses in Chemistry. Novel inter-disciplinary courses like Material Sciences, Computers Science, Molecular Biology, etc. will be offered as elective courses.
4. To M.sc. students, the school will provide opportunities to take courses in various topics in Chemistry. There will be a few basic courses common to all M.Sc. students (e.g. Thermodynamics, Chemical Bonding, Reaction Mechanism Organic Synthesis and Modern Physical Methods); in addition

advanced courses will be offered to enable specializations.

5. Wherever possible, project-oriented laboratories and research projects will be included in both ~~under-graduate~~ ^{and Post-Graduate} programmes. It should be mentioned that a main feature of the teaching programmes of the School will be flexibility to adjust and accommodate various courses depending on the needs and aptitudes of students.

6. One of the main activities of the School would be to promote high quality research in various important aspects of Chemical Sciences. In research again, the school expects considerable inter-disciplinary component. There would be a number of inter-disciplinary research programmes and centres. Such inter-disciplinary efforts will be strengthened by the School, by launching new teaching programmes in inter-disciplinary areas (like Materials Science, Chemical Physics and so on.), in collaboration with other Schools. All students of the School of Chemistry will compulsorily take some courses in other Schools. Joint faculty appointments amongst Schools will also promote inter-disciplinary activities.

7. Some newly emerging areas where emphasis will be focussed, and which will be developed actively are:

- (a) Chemical Physics (theory and experimental)
- (b) Chemical Spectroscopy
- (c) Statistical Mechanics and thermodynamics
- (d) Solid State Chemistry
- (e) Fast and ultrafast reactions
- (f) Macro-molecular and Biopolymer Chemistry

- (g) Bio-inorganic Chemistry
- (h) Transition metal Inorganic Chemistry
- (i) Analytical Chemistry
- (j) Molecular Design and Synthesis
- (k) Bio-organic Chemistry
- (l) Physical Organic Chemistry
- (m) Natural Products Chemistry, and
- (n) Heterocyclic Chemistry.

8. The M.Phil. programme is envisaged to be of two semesters duration, and a brief outline of the programme is suggested to be as:

I. Semester

Compulsory courses

1. Basic Quantum Chemistry and its applications to various areas.
2. Modern Physical methods in Chemistry.
3. Emerging Frontiers in Chemistry.
(This will be an inter-disciplinary course with emphasis on environment biology, earth Sci., energy etc., with participants from other schools of University).

Elective Courses (any two)

Advanced Org. Chem.
Advanced Inorg. Chem.
Stat. Mech & Thermo.

Electronics & Instrumentation
Quantum Mechanics in Chemistry,
Courses from other Schools of
University

II. Semester

1. A Seminar course called "Current Chemical Research", where speakers invited from outside the dept., and also the deptl faculty will give weekly research seminars in all areas of interest, and the students will be examined on these.
2. Research Project in a Lab.
3. Graduate Seminar by the student.

9. Many of the courses will include Lab.work, and may be given in Collaboration with other schools in University. If lab. work is not possible for some courses, one may include a "workshop". This may be particularly true of the new course "Emerging Frontiers", where mathematical models and computer programming may form part of the workshop.

10. The Ph.D. programme will normally have as its input students who have M. Phil. degrees. In view of the fact that the pattern of the new degree M. Phil. is not standardised, and many places do not have M. Phil. degrees, the school will also consider recruiting M. Sc. students into the Ph. D. programme. An entrance examination has been suggested that covers roughly the course material of the M. Phil. degree and students desirous of to the Ph. D. programme write this entrance exam., and be selected after passing. The School has also suggested a workshop type of course in advanced general chemistry for the Ph. D. entrants. The students will complete this course and a set of cumulative and/or a comprehensive exam before admission to the Ph.D. candidature.

11. There is also a proposal to set up a Unit for Chemical Education material. In this unit, attention will be focussed on and material will be developed for the following ends:

- i. Clarification of concepts -- e.g. on reaction mechanisms, phase rule etc.
- ii. Models and Audio-visual aids to teaching and learning -- e.g., inexpensive models, films, cassettes etc.
- iii. Laboratory material, experiments, textbooks, monographs and manuals film loops, single concept AV material.
- iv. Simple "experiential" approaches to topics in Chemistry.
- v. "Relevant" Chemical applications.

These are but a few examples of possibilities.

12. Besides the equipments that have already been ordered and received, the following instruments will need to be bought and fabricated.

Laser Raman Spectrometer	Spectrofluorimeter
Spectropolarimeter (ORD/CD)	E.S.R. Spectrometer (35 Ghz)
Multichannel Analysers	Differential Scanning Calorimeter
Light Scattering Photometer	Storage Oscilloscopes
X-Y Recorders	Vibration Magnetometer
Magnetic Balances (Faraday)	Flash/Contin. Pyrolysis Unit
Autoprep. CIG Unit	Ozonizers
Photochemical reactors	High Pressure Bombs
PARR Hydrogenator	Muffle Furnances
Cryostatic Baths (+40° to -120°)	Preamp and Amplifiers
AC/DC Conductance Bridge	DTA and TGA
Research Microscopes	Potentiometer
Cold Room (4°C)	PH Stats
Data System for Mass Spectrometer	

13. The school will also need few more journals in addition to the ones already subscribed. These amount to about 15 titles, covering interdisciplinary areas as well.

OBSERVATIONS

- (1) The Committee agreed on the nature of curriculum and courses suggested by the University for the M.Sc. programme in the School of Chemistry. The titles, contents and number of courses, possible research projects may be worked out in detail by the faculty of the school. The committee also accepts the recommendations of the working group/school in principle, in terms of the basic philosophy.

- (2) The committee is of the view that the M.Sc. programme should not be compartmentalised into traditional areas, but should be one of a unifying theme. The students may be given grounding in themes such as structures, interactions and reactions, energetics, synthesis and mechanisms and applications. A small research project may also be introduced in the final stage of the programme in order to initiate the students into the methodology of research in chemistry.
- (3) The committee suggests that a few courses be developed using the facilities and expertise of the national laboratories, industries and the research institutions around Hyderabad - such courses could be developed both for M.Sc. and M. Phil. programme.
- (4) The M. Phil. programme, suggested by the school is well thought out, and meets the basic requirements for the degree. The programme envisages three compulsory courses in basic chemical physics, modern physical methods in chemistry, an inter-disciplinary course on some important aspects of Chemistry, a seminar course on current chemical research, and original research work. The philosophy is to provide basic ground work in modern chemistry and research methodology avoiding narrow specialisations; a research project will however, be allotted to students in the area of specialisation. The basic features of the degree are broad-spectrum background and current awareness. Quality improvement of teachers through M. Phil. training is another important aspect.
- (5) Course requirements for the Ph.D. programme may be left flexible, as suggested by the School and could be reviewed later.

- (5.) The basic programmes of the schools are to continue with the M. Phil. programme and to start the M.Sc. programme from July 1977. The M. Phil programme is envisaged to have a student strength of about 10-12 and the M.Sc. programme about 20-30 (admissions in 1977 will be about 10 to 15). Admissions for the Ph.D. programme will be started by July 1977. The initial student input is expected to be about 10 and this number may go up to 15-20 by the end of the 5th plan period. Adequate fellowships would be needed for the Ph. D. programme.
- (7.) It is important to support the idea of a chemical Education Unit (CEU), suggested by the School of Chemistry. This is in order to provide proper training for the teachers entering the M. Phil and Ph.D. programmes and also to develop novel and innovative material at the School for Chemistry. The committee suggests that the University may formulate a detailed project for separate consideration of the commission. The proposal is however strongly recommended for the consideration of the commission.
- (8.) Under-graduate B.Sc. Hons. course may be introduced with a model curriculum in 1980.
- (9.) The nature and format of the buildings for the school as suggested by the working group would meet the requirements of the School.
- (10.) The emerging areas of chemistry where emphasis should be focussed have been well thought out by the working group/school. Greater attention may be paid to the following areas in the immediate future:-
- (a) Chemical Physics (theory and Experimental);
 - (b) Chemical Spectroscopy;
 - (c) Statistical mechanics and thermodynamics;
 - (d) Solid State Chemistry (materials);
 - (e) Macro-molecular and biopolymer Chemistry;
 - (f) Bio-inorganic Chemistry
 - (g) Transition Metal Inorganic Chemistry;
 - (h) Molecular Design and Synthons;
 - (i) Bio-organic Chemistry;
 - (j) Physical Organic Chemistry ;
 - (k) Natural Products Chemistry;
 - (ll) Heterocyclic Chemistry and
 - (m) Homogeneous Catalysis.

(11) The committee recommends that the University may be assisted for appointing staff - academic, Technical and other, as also for the purchase of Books & Journals, Equipment etc. to enable it to implement the programmes of teaching and research. The building needs of the School have been discussed separately in the re.

(12) The School may acquire routine low resolution infrared and ultra-violet spectrometers for its own use in the teaching and research laboratories. This is particularly important in order to optimise and efficiently utilise the sophisticated instruments in the Central Instruments Centre. The provision for consumables is for chemicals, solvents, glassware^{es} etc. and other consumables for teaching and research laboratories.

(13) While recruiting faculty, care should be taken that all major areas of research to be pursued in the School are evenly represented on the faculty at all the levels and the each major research group in the School is a viable unit.

(14) Major equipment which can be used by other schools be treated as Central facility.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	<u>(Rupees in lakhs)</u>	
(A) <u>Non-Recurring</u>		
Books & Journals	8	3
Equipment (M.Sc. & M. Phil.)	8	3
	<hr/>	<hr/>
Totals:	16	6
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professors	5	-
Readers	10	-
Lecturers	8	-
Technical Staff	2 S.T.A.	-
Other staff	1	
(C) <u>Specialisation of the</u> <u>Faculty</u>		

Professors: Three Professors have already been recruited, the others to be recruited as follows:

One in Theoretical Chemistry
and other in a Frontier area

Readers |

Lecturers | In the emerging areas cited above

(e.) SCHOOL OF LIFE SCIENCES

1. The lines on which the School of Life Sciences at the University of Hyderabad will develop have already been briefly outlined on page..... of the report. Further details about the programmes of the School and its approach as envisaged by the University are given below
2. The School in Life Sciences planned by the University of Hyderabad will have a unified structure and will strive to achieve a balanced development of biology including organismic, cellular and molecular biology. Such an approach is in line with the recommendations of the Binational conference on Education and Research and the views of the Science Panels of UGC. There will be no traditional subdivisions such as Botany, Zoology, Microbiology, Genetics, Biochemistry, etc., each having separate staff and teaching programme. The School will consist of a number of research groups in carefully chosen areas all of which participate in a common teaching programme. Such a structure will provide for maximum interaction between various disciplines in teaching as well as research.
3. The school will place great emphasis on cellular and biochemical aspects of biology and will build strong groups in Microbiology, Biochemistry, Biophysics and molecular biology. At the same time it will also strive to, develop areas of modern organismic biology such as genetics, ecology, ethology and population dynamics taking into account the special conditions of Deccan.
4. At the B.Sc. level, there will be an integrated course in Life Sciences with emphasises on unifying concepts. Undue weightage given to descriptive biology will be reduced and inter-disciplinary approaches will be stressed. For this purpose students of biology will be provided with

the necessary background in principles of physical sciences and mathematics. Fossilised courses will be avoided and the curriculum will provide for innovation and variety.

5. The school will award M.Sc. in Life Sciences with elective specialisation in a variety of areas such as Plant Science, Animal Science, Biochemistry, Genetics, Microbiology and Molecular Biophysics. Admission to M.Sc. will be open to all with a B.Sc. in either physical or biological Sciences.

6. The school will develop into a strong centre for research, by carefully selecting growing and important areas of research. Such fields as molecular biology, molecular biophysics, cell biology, immunology neurobiology, reproductive biology, developmental biology, ethology, genetics, are advancing rapidly. Contemporary research in these areas is interdisciplinary and makes rich use of physico-chemical methods. This requires a strong emphasis on experimental biology, biochemistry and biophysics and interaction between physical and biological sciences. In choosing areas of research emphasis will be on functional groups rather than on conventional subdivisions. The School will have a flexible structure to permit creation of new groups when opportunities arise and to discontinue old groups where they have outlived their utility.

7. While selecting faculty for the school the University will look for creative and talented scientists to undertake teaching and research programmes as envisaged above.

8. The school will need an adequate number of teachers for teaching the variety of courses. 5 Professors, 10 Readers, 8 Lecturers and other supporting staff will be required in the initial stages. The committee noted that the working group on the school had observed that :

"It is important not to restrict, the appointments in the school of Life Sciences to those who hold degrees in Biology alone. The school should specially seek people who have come to biology from other sciences such as Physics, Chemistry or Mathematics. This is the best way of ensuring that the school has an inter-disciplinary character of high calibre."

9. The school will need about 60,000 sq.ft. of Laboratory space for its teaching and research activities. It will also require special facilities such as animal house, glass house, controlled temperature rooms, hot laboratory for radioactive work, a workshop etc.

10. The laboratories of the school will need a variety of equipment used in a modern biological laboratory as given below:

- (1) Equipment for Teaching - Compound and dissecting Microscopes, Stereomicroscopes, Microtomes, Collimate spectrophotometers, centrifuges, Refrigerators, Coop Freezes, Balances, Fraction Collectors, Autoclaves, Incubators, Water Baths Shakers, Power Supplies, Chromatographic Tanks, Vacuum Pumps, U.V. Lamps, P.H. Meters, etc.

An adequate supply of consumable items like chemicals and glassware.

- (ii) Equipment for Advanced Research and Teaching: Refrigerated Centrifuges, Preparative Ultracentrifuge, Gas flow and Scintillation counters, Fluorimeters, Spectrophotometers, Research

Microscopes, Equipment for Photography and Photomicrography, Power Supplies, Oscilloscopes, Micromanipulators, Lycopodiums, Amino-acid Analyser, etc.

- (iii) In addition, the school may require special equipment for specific research areas which may choose, for instance, electron microscope X-ray diffraction work neurophysiology, etc.

This is an illustrative list and does not include special items which might be required for research. The actual list will be decided by the users. Adequate foreign exchange would be needed for this purpose.

11. A workshop and a glass blowing shop in the school will be highly desirable, so that it should be able to carry out mechanical and electronic repairs and fabricate apparatus not available as standard items.

OBSERVATIONS:

- (1.) The school of Life Sciences is to develop into a strong inter-disciplinary group with activities focussed at molecular, cellular and organismal levels. It will endeavour to provide an integrated approach to the teaching of Life Sciences. It will interact with the Schools of Physics and Chemistry of the University and with the National Laboratories and other Institutions at Hyderabad. The committee fully endorses this approach of the school.
- (2.) The school will offer an M.Sc. programme in Life Sciences with a strong base in basic sciences coupled with specialization in one of the modern areas of Life Sciences. It will also offer M. Phil. and Ph.D. programmes in the areas of specialization of the faculty in such a manner that strong research schools are developed. The committee also shares this view of the University. With the facilities and the expertise that may be available in the University by July 1977 an interim teaching programme leading to M.Sc. in Plant Sciences and M.Sc. in Biochemistry is proposed to be started with a limited number of students. In addition

the faculty will also be conducting the M. Phil and Ph.D. programmes.

(3) The School will cover a very broad area in terms of the recommendations of the working group. It will therefore need a sufficiently strong faculty specially at the senior level. The faculty to be provided is given later in this report. The University should take special measures to attract the best talent to fill these positions keeping in view the general areas indicated in the recommendations of the working group as and when talented persons are available.

(4) The University may also be assisted for laboratory equipment for M.Sc., and M. Phil. courses, Laboratory supplies, Chemicals and consumables, Glassware and Radio-active Chemicals besides research equipment and major instruments. The expenditure on supplies and Chemicals is likely to be large in the first ^{few} years when a variety of items have to be procured. This will settle down to lower values in later years.

(5) It would be desirable to provide laboratory space to the School to enable it to introduce its M.Sc., M. Phil. and Ph.D. programmes from July 1977. Some stop-gap arrangements will need to be made in this regard. A working space of about 15,000 sq.ft. floor area with atleast 2 cold rooms are the most essential space requirements of the School, immediately.

(6) The faculty have formulated some independent research projects. They also involve collaboration with other schools of the University. These are in the areas of photosynthesis, enzyme reaction mechanisms and mechanisms of intestinal absorption, and neurochemistry and lipid metabolism. The committee strongly recommends the provision of some research fellowships for achieving such goals. This has also been discussed as a general issue on page _____ of the report.

12. The committee recommends that the University may be assisted for appointing staff - academic, Technical and other, as also for the purchase of Books & Journals, Equipment etc. to enable it to implement the programmes of teaching and research. The building needs of the School have been discussed separately in the report.

13. While recruiting faculty, care should be taken that all major areas of research and teaching to be pursued in the School are evenly represented on the faculty at all the levels and that each major research group in the School is a viable unit.

14. Major equipment which can be used by other Schools be treated as a Central facility.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rs. in lakhs)	
(A) <u>Non-Recurring</u>		
Books & Journals	8	3
Equipment (M.Sc./M.Phil.)	8	3
Air conditioning	2.50	-
	<hr/>	<hr/>
Total:	18.50	6
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professors	5	-
Readers	10	-
Lecturers	8	-
Technical Staff	2 S.T.A.	
Other staff	1	

(f.) SCHOOL OF SOCIAL SCIENCES

1. The University has plans to set up a school of Social Sciences in which all the major Social Science disciplines such as History, Economics, Sociology, Political Science, etc., are represented. The School is intended to ensure disciplinary growth and to develop an inter-disciplinary approach. The School will offer courses leading to the award of undergraduate and post-graduate degrees, in addition to providing facilities for research. The University had appointed working Groups in Economics, History, Human Sciences and Regional studies. In addition, the University also appointed a co-ordinating Group and some other groups relating to Human Geography, Political Science and Public Administration, Sociology and Social Anthropology, Psychology, Social Polity, Population studies, etc. The committee noted that the co-ordinating Group and some other groups have formulated their recommendations for the consideration of the Planning Board and the University. Other groups have yet to complete their recommendations:

2. In the proposals made by the University, it has been envisaged that besides Departments in major Social Science disciplines, there will be Centres of Studies for promoting inter-disciplinary studies. The committee in this connection, noted that the co-ordinating group in its report has observed:

"Keeping in view the two basic objectives of simultaneously maintaining; (1) disciplinary standards, and (2) promoting inter-disciplinary studies, it was agreed that in pursuance of the first objective departments should be established around one major Social Science discipline for purposes of teaching and discipline-based research, and in pursuance of the second objective, Centres of Studies should be created around significant problem areas of National relevance and academic excellence, which should have their own core staff apart from drawing on the talent from the faculties of the discipline-based departments".

3. The co-ordinating Group, also recommended the establishment of the Departments of Economics, History, Human Geography, Political Science & Public Administration, Psychology and Sociology & Social Anthropology. The group also observed that "Multi-disciplinary Centres should be an essential feature of the School of Social Sciences, particularly for meaningful research on areas of critical relevance to national development." Keeping this in view, the co-ordinating Group suggested that the following Centres may be established in the School of Social Sciences:

1. Centre for Social Polity
2. Centre for Regional Development
3. Centre for studies in Regional History and Culture
4. Centre for Population Studies
5. Centre for Human Sciences

The group also suggested the setting up of working groups for these Departments/Centres to work out the academic scope and orientation, curricular pattern, and main research areas.

4. According to the recommendations of the working Group of the Government of India, the University is to have Schools/Centres engaged in inter-disciplinary and integrated programmes of studies. The concept of discipline-based and insulated departments will not promote a healthy climate for promoting meaningful inter-disciplinary interaction. This point has already been explained by the Committee on page³¹ of the Report indicating the danger of such a structure. The matter was discussed at great length by the committee with the Vice-Chancellor who finally agreed that the University may have only Centres of Studies and not traditional

discipline-based Departments. It was also agreed that there will be some discipline-based centres and some inter-disciplinary centres. The committee suggests that, to begin with, the University may have Centres of Studies in Economics, History, Political Science, and Sociology & Anthropology. The working groups in Human Sciences and Regional Development have made their recommendations. The University may initiate programmes in these areas by creating Centres in Human Sciences and Regional development later. The creation of Centres may be done in a phased manner. In determining the nature, orientation and scope of the Centres, the faculty should be involved actively. The committee strongly suggests that the University should get the reports of the various working groups in the School of Social Sciences finalised early to safeguard against possible imbalance in the growth of the university in Natural Sciences vis-a-vis the Social Sciences.

5. As in the Schools in Sciences, the School of Social Sciences may initiate programmes at the M. Phil. and Ph.D. level in the beginnings say from July 1977. The committee noted that the University has already introduced M. Phil programme in Economics in collaboration with the Administrative staff College of India. The programme for the M. A. may be introduced later, say from July 1978. It is hoped that by that time the university will be able to finalise its plans in terms of the reports of the working groups. The B.A. programme may not be introduced before 1980.

While the discipline -based M.A., M. Phil. and Ph.D. courses may be organised by the individual centres, comparable inter-disciplinary studies and the B.A. Honours level programme may be organised by the School.

It is suggested that all M.A. and M. Phil. programmes should include some relevant offerings (1/4th to 1/3rd) from cognate disciplines. There should

be positive encouragement towards strengthening this trend.

6. The University should carefully plan its student intake in the various courses to be offered at the School. While doing this it should ensure that students from all over the country have the benefit of these courses. A modest student number is suggested for admission in each course. These suggestions, of course, should be operated within the spirit injecting the creation of the University.

7. The University may appoint a few faculty members, preferably at the senior level, in various disciplines so as to undertake the various programmes of teaching and research and also help the university and the working groups in formulating plans and programmes of the School. While doing this the University may keep in view the total representation of the entire spectrum of disciplines in social sciences in the faculty of the school. Some faculty specialisation at the Professor's level are suggested later.

8. The interaction between the school of social Sciences and other Schools of the University is recognised as an important objective to be pursued. This is a point which the University has to keep in view in framing the activities of the School. Joint appointments, collaborative research programmes and inter-school and inter-centre seminars are some of the tools for achieving meaningful interaction.

9. It has already been stated that the working groups in Human Sciences and Regional Studies have made their reports and that the reports have been accepted by the Planning Board. The most appropriate strategy for these centres would be to ensure that the faculty recruited for the different disciplinary centres can make positive contribution to these inter-disciplinary centres. The faculty in Life Sciences, Philosophy, Sociology, Anthropology, can be expected to make inputs towards the development of the centre of Human Sciences and Economics, Sociology, Anthropology, Political Science towards regional studies. The centre in Regional studies will ^{however} need some senior positions

The report of the working groups in Regional Studies is attached as Annexure ii

10. The committee took note of the observations made by the groups appointed by the University in the School of Social Sciences in making its recommendations.

11. The following fields of specialization are suggested for the Professorships in the various Centres:

(1.) Economics

One Professorship in Econometrics/Mathematical Economics and the second Professorship in Institutional Economics/Social Aspects of Planning and Development.

(2.) Sociology

One Professorship in Sociology and one in Social, Cultural, Anthropology.

(3.) Political Science:

One Professorship in Political Theory/Political Development and one Professorship in International Relation/International order.

(4.) History: One Professorship in Social and Economic History and the other Professorship in Regional History. The Readers may be in the Ancient, Modern and Medieval periods as well as Indian and non-Indian.

(5.) Regional Studies:

The specialisation of the faculty may be determined keeping in view the faculty appointed in the discipline based centres of the School and the recommendations made by the working group on the centre for Regional Studies in its report.

(6.) Human Sciences:

Professorship in Psychology as recommended by the working group, in its report.

RECOMMENDATIONS

	<u>From 1977</u>			<u>From 1978</u>		
	P	R	L	P	R	L
Economics	1	2	2	2	4	4
Sociology & Anthropology	2	1	-	-	2	3
Political Science	1	1	-	1	2	3
History	1	1	-	1	2	3
Human Sciences	1	1	3	-	-	-
Regional Studies	2	2	3	-	2	2

(g.) SCHOOL OF HUMANITIES

1. The School of Humanities, comprising Philosophy, English , Comparative religion, Indology, History of Arts and Museology will explore in a larger perspective, the inter-related elements of philosophical religious, literary and aesthetic approaches constituting the area of humanities. Under the School, the department of English has already started functioning. The department of Philosophy also established under the school, will start functioning shortly.
2. The committee suggests that departments in this school should also be designated as Centres, as discussed in the report of the School of Social Sciences.

DEPARTMENT OF ENGLISH

- (1) The Department of English has been functioning since November, 1975 on the Campus of the Central Institute of English and Foreign Languages, Hyderabad. At present, the department has only one Professor who joined on August 2nd, 1976. The other professor is likely to join the University shortly. The Professor in position is at present assisted by about a dozen part-time teachers from the C.I.E.F.L. and two from Osmania University.
- (2) It has at present two batches of students receiving instructions at the M.A. level. The department has on its rolls 32 students. The first batch of 6 students joined the department in November, 1975 and the second batch of 26 in August, 1976.
- (3.) At the M.A. level, the department at present offers 16 semester courses. As stated by the University the department has broken new grounds in working out an entirely fresh pattern of English studies, with almost equal emphasis on the teaching of English as literature and Language. Besides including some traditional courses on British and American Literature

the department has initiated courses in English as a medium of communication (with adequate knowledge of Linguistics, the structure of English, advanced composition, rhetoric, stylistics, the teaching of English in India, etc.). This functional approach to English as a linguistic tool will equip the students with not only a deeper awareness of the Mechanics of oral and written expression, but also mould them into competent teachers of English. While the course on "Literature and Society" is designed to encourage the interpretation of Literature in terms of its social relevance, the course on "Creative writing" will enable the students to realize their creative potential. The department proposes to invite from time to time, reputed Indian writers in English to stay in residence for a semester or two to guide and initiate students into different forms of creative writing. It is also proposed to develop the department for teaching and research in the areas of commonwealth literature and Indian Literature in English. It was stated by the University that since Independence, India has witnessed a kind of renaissance in all regional literatures, but more so in the area of Indian writing in English. The department of English, therefore, proposes to build up in course of time, a comprehensive research library on Indo-anglian and commonwealth literatures.

(4) The research programmes of the centre ^{will} be directed more towards commonwealth literature, Indian writing in English, Linguistic - Stylistic interpretation of literature than towards assessments of major British/American authors- areas on which primary source material is not adequately available in India. The University will avoid duplication of research programmes and will attempt to explore new avenues of critical enquiry, more relevant to the national needs and aptitudes.

(5) The department plans to start M. Phil course very shortly. This research course will subsequently lead to research at the doctoral and Post-doctoral levels. The committee supports this.

(6) The proposals made by the University in order to introduce M. Phil. and Ph.D. programmes from 1977, besides continuing the M.A. programme, include staff, books, Journals, etc. and provision for scholarships, fellowships, etc. The committee suggests that the University should enter into maximum collaboration with the C.I.E.F.I. in its programmes of teaching and research including M.A., and M. Phil. courses.

(7) The committee recommends that the University may be assisted for appointing staff - academic, Technical and other as also for the purchase of Books & Journals, etc. to enable it to implement the programmes of teaching and research. The building needs have been discussed separately in the report.

(8) While recruiting faculty, care should be taken that all major areas of research and teaching to be pursued in the centre are evenly represented on the faculty at all the levels and that each major research group in the centre is a viable unit.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
(A) <u>Non-Recurring</u>		
Books & Journals	2.5	1.00
	<hr/>	<hr/>
Total:	2.5	1.00
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professors	2	-
Readers	4	-
Lecturers	7	-
Other staff	1	-

CENTRE FOR PHILOSOPHICAL STUDIES

1. The University has plans to introduce teaching and Research programmes at the centre for Philosophical Studies, from July 1977. The University had appointed a working group which has finalised its recommendations. These recommendations have been accepted by the planning board.

2. According to the University, the following three streams will be developed by the Centre in a phased manner:

(a.) First Phase-Philosophy of the Social Sciences

By this is meant, social, Political and Educational Philosophies; Philosophy of Culture; Philosophy of History; Methodologies of the Social Sciences; Philosophical Anthropology; Moral Philosophy; Philosophical problems relating to Development; etc.

(b.) Second Phase - Philosophy of Natural and Exact Sciences

By this is meant: the Logic of Sciences; the Methodologies of Physical and Biological Sciences; Modern Cosmologies; The weltanschauungen that are and can be based on modern science; Philosophies of Mathematics and the Sciences; Symbolic Logic; etc.

(c.) Third Phase - Classical Philosophies

Analytical and historical studies of the classical philosophies, especially of India, and then of the Far East, West Asia and Europe, etc.

3. The University will introduce M. Phil. programme from July 1977 and M.A. from July 1978. At the M. Phil and Ph.D. levels research in areas suggested to be developed in phase "First" will be undertaken. The researches would be analytical and problem - oriented and relevant to the present day and not historical and expository.

The M.A. course will be organised on the lines suggested by the UGC panel on Philosophy.

The committee supports the programmes of the University and recommends assistance for the appointment of Faculty, Books, Journals, etc.

4. The committee recommends that the University may be assisted for appointing staff - academic, Technical and others as also for the purchase of Books & Journals, etc. to enable it to implement the programmes of teaching and research. The building needs have been discussed separately in the report.

5. While recruiting faculty, care should be taken that all major areas of research and teaching to be pursued in the centre are evenly represented on the faculty at all the levels and that each major research group in the centre is a viable unit.

RECOMMENDATIONS

(A) <u>Non-Recurring</u>	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
Books & Journals	1.50	1.00
	<hr/>	<hr/>
Total	1.50	1.00
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professor	2	
Readers	4	
Lecturers	2	

(h.) SCHOOL OF CREATIVE ARTS.

1. The University has also plans to establish a School of Creative Arts, during the 5th plan. The University, in its plan, for the School has envisaged the followings:

(1) The School of Creative Arts will endeavour to bring into a harmonious pattern all the creative urges of man. If true education is essentially designed towards moulding young students into mature, poised, sensitive human beings, the importance of creative arts cannot be over-emphasised. The University of Hyderabad will attempt to encourage creative arts both on the theoretical and practical plans.

(2) The school will comprise the following departments:

(a) Music

This department will include a study of music in all its aspects - vocal and instrumental music (Karnatak and Hindustani), with some elementary knowledge of western system of music.

(b) Musicology

This branch of music will be exclusively concerned with the theoretical aspects of different systems of music.

(c) Painting

(d) Sculpture

(e) Drama

(3) The University will draw upon this school for organising its various cultural activities such as exhibition of painting, theatrical performances and programmes presenting vocal and instrumental music.

OBSERVATIONS:

2. The University has not yet appointed the working group on the School. The plans and programmes of the School are therefore yet to be worked out. However, the creation of such School in a place like Hyderabad cannot be ignored. The committee feels that in view of the other important programmes of the University, it would be desirable for the School of Creative Arts to undertake its academic activities later. The committee suggests that the University may appoint a working group for the School to formulate its plans and programmes of studies. It would, however, be desirable to appoint one senior faculty member at the Professor's or Reader's level and one at the Lecturer's level in order to plan the programmes of the School and also to assist the working group.

3. Though, the country cannot boast of many centres where the creative Arts are studied, ^{or} training is provided in different aspects of these arts, there are a few centres which have already done commendable work on several aspects of this area of human effort and achievement. A study of the work done in these centres is important in order to finalise the basis on which the school should function at this University. It should be possible for the University to invite eminent persons from other Institutions to be visiting Professors at the University and to deliver lectures for those who care to study these matters. Arrangements should also be made with those institutions for such students to go over to these centres and attend certain lectures. At this stage the committee recommends that the nucleus of a Library may also be built up which would consist of not only Books and Journals but also music records and other collections which would be relevant for a properly constituted school of Creative Arts. The committee would like to add a word of caution to the University, that while it has planned well conceived integrated courses in its other Schools, it may not play on a minor-key in this school and in a manner which may invite criticism from

4. The committee recommends that the University may be assisted for appointing staff - academic and technical, as also for the purchase of Books & Journals and Equipment etc.

RECOMMENDATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	<u>(Rs. in lakhs)</u>	
(A) <u>Non-Recurring</u>		
Books, Journals, Equipment	1.00	1.00
	<hr/>	<hr/>
Total	1.00	1.00
	<hr/>	<hr/>
(B) <u>Recurring</u>		
Professor or Reader	1	1
Lecturer	1	1

BUILDINGS

1. The University proposes to construct the following buildings during the 5th five-year plan period:

(1)	Instrumentation Centre including Air-conditioning.....	Rs. 15 lakhs.
(2)	Buildings for the 3 Science Schools (Life Sciences, Physics, Chemistry).....	Rs. 120 lakhs.
(3)	<u>Staff Quarters</u>	
	(a) Professors & Readers.... 70 Qrs.	
	(b) Lecturers 30 "	
	(c) Vice-Chancellor's Res.... 1 "	
	(d) Other categories including class IV ... 50 "	Rs. 100 lakhs.
(4)	Teacher's hostel..... 50 Suites	Rs. 15 lakhs.
(5)	<u>Hostel Complex:</u> 500 boys & 250 girls including furniture, hostel equipments, etc.	Rs. 75 lakhs.
(6)	Administrative Block... 1 phase 10,000 sq.ft. including furniture	Rs. 8 lakhs.
(7)	Guest House 20 suites	Rs. 8 lakhs.
(8)	Health Centre, Gymnasium, Sports and games complex, cooperative stores and cafeteria, etc.	Rs. 5 lakhs.
(9)	Boundary Wall only front portion (About 2 miles length)	Rs. 5.5 lakhs.
(10.)	Minor works	Rs. 10 lakhs

	Total	Rs. 361.5 lakhs -----

2. The University in support of the above proposals gave the following justifications:

(i) INSTRUMENTATION CENTRE BUILDING

Scientific Instruments worth Rupees sixty-five lakhs have already been acquired. These would be housed in an air-conditioned building, and this equipment would be accessible to all the Science Schools for use.

(ii) BUILDING OF THREE SCIENCE SCHOOLS

The University has already initiated its M. Phil. programmes in the three schools in collaboration with the research laboratories at Hyderabad. The working groups have already made their detailed recommendations about these schools and the M.Sc, and the Ph. D. programmes are to be started from 1977. Staff has also been appointed and more staff will be appointed in the near future.

(iii) HOSTEL & STAFF QUARTERS

The University Campus is situated in an area where residential facilities are practically nil, the construction of residential buildings will have to be taken in hand on top priority. It would also be essential to provide residential accommodation to bachelor teachers and those with small families.

(iv) ADMINISTRATIVE BLOCK

As the works on the academic complex buildings progress it is necessary to provide the administrative building also.

(v) GUEST HOUSE

The academic programmes of the University are integrated and inter-disciplinary in approach. The University will also collaborate with other National Laboratories, Universities and other Institutions

in the country. The programme of inviting faculty of other Universities and Scientists of the National Laboratories will be an important activity of the University. It would be essential to provide residential facilities to the visiting academic community and as also to others who visit the University for the official work. A guest house will therefore be a must on the campus.

(vi) HEALTH CENTRE, CO-OPERATIVE STORES, etc.

Facilities for Health Centre, Gymnasium, Sports and games complex, co-operative stores and cafeteria, etc. are essential on a University campus. They are more essential for a campus like that of Hyderabad University being away from the city and having no such facilities nearby. The essential nature of these facilities in the campus for the students and staff of the University needs no emphasis. These facilities have to be made available as soon as the teaching and research activities start in the campus.

(vii) BOUNDARY WALL

The University Grants Commission has already approved the construction of boundary wall for the University campus excluding the front portion. The construction of boundary wall for the front portion with two entrance gates will need to be completed on a priority basis from the security point of view.

3. The committee in this connection also took note of the following observations made by the working group of the Government of India on the establishment of the University:

Admission to the University should be so phased that the total enrolment at the end of the Fifth Five-year Plan should not exceed 3,000;

Provision should be made to enable students from other Universities to pursue some courses at the University and earn due credit/credits for the work done in the University towards the completion of their courses.

The construction of residential accommodation for students as well as staff should be given high priority and properly phased, with modern concepts in the construction of buildings subject to local modifications should be adopted in the construction of buildings on the Campus.

The Chief Minister and Education Minister, Andhra Pradesh and officers of the State Government repeatedly stressed that the University must start functioning to the extent possible from the academic year beginning in July 1974. It was pointed out that any delay in this was likely to create suspicion in the minds of the people of the state.

4. The committee also took note of the observations made in the report of the working group of the University on "Ideas competition for the design of the Master Plan of the University Campus." The group in this report has made a detailed study about the campus of the University of Hyderabad. Some of the following observations need worth mentioning:

"The University Campus should be designed to reflect the personality of the University and to radiate the dominant purposes for which it exists In its final form the campus should be distinguished by the quality of its physical environment and by the coherence

of its organisation and its practical convenience.....

The campus should be created to express the spirit and purposes of the academic community.....

Sound planning of the campus requires that the design of the various building complexes should be able to accept growth without affecting its beauty and architectural harmony..... The life of the Campus would revolve around the academic complex and other buildings complexes should constitute well formed and functionally patterned links of the academic nucleus. The academic complex should aim at facilitating inter-disciplinary work and effecting economies which result from sharing of activities, of course without impairing efficiency. Consideration of economy and efficiency require optimum and intensive utilisation of the physical facilities. Large and expensive rooms, Laboratories and workshops lying idle and unused for hours together present an ungraceful picture..

..... It is necessary to give due regard to the great cultural heritage of Hyderabad which has been a place of historical significance and meeting place of many cultures. Although the University site is apparently barren, the landscape is rich with unhewn sculpture and curiously shaped boulders and arranged rocks which lends themselves to exploitation by imagination of the architect..... keep expenditure on developmental works as low as possiblematerials should be specially selected as to reduce annual maintenance cost to the bare minimum.....utmost economy shall be aimed at and all possible rational measures are adopted consistent with the requirements of efficiency.....

..... The natural features of the site shall be kept

landscaping of the campus area..... The University is a composite community of teachers and learners and it is therefore necessary to discourage segregation in residential areas. Instead, a mixture of staff and students housing in proportion should be provided to form small social groups."

5. Keeping in view the progress made by the University in formulating its academic programmes, the location of the campus site, and having no facilities on or near the campus, the committee makes the following recommendations:

- (i) Instrumentation Centres: The committee supports the proposal under first priority.
- (ii) Buildings for Science Schools: The working groups have recommended the following plinth areas for these Schools and the animal houses:

(1.) Life Sciences	58,000 sq.ft.
(2.) Physics	58,600 "
(3.) Chemistry	58,500 "
(4.) Animal House	16,200 "

Total:	1,91,300 sq.ft.

The committee recommends that the University may be assisted for the construction of the above buildings under first priority, in accordance with the norms of the UGC.

The University also proposes to construct academic buildings for the Schools of Mathematics and Computer/ Information Sciences, School of Geosciences, School of Social Sciences and School of Humanities. The estimated cost of the buildings is about Rs. 100 lakhs which the University has included in second priority.

The committee suggests that construction of these buildings may be considered in the sixth five-year plan.

(iii) Staff Quarters: The committee has separately recommended the creation of 43 Professorships, 74 Readerships, and 71 Lecturerships. The Committee understands that the commission has agreed to provide staff quarters for 50% of the staff sanctioned during the fifth-plan in all the Universities. On this basis, the University of Hyderabad will be entitled to 58 type I quarters and 35 type II quarters. However, this approach of 50% cannot be made applicable to the University of Hyderabad which has just started from scratch and where no facilities for residential purposes are available near the campus. In view of this, the committee supports the proposals of the University for the construction of 70 type I quarters, 30 type II quarters under first priority. The quarters be built in accordance with the norms laid down by the UGC.

(iv) Vice-Chancellor's Residence: The committee supports the proposal under first priority. It will be a type I quarter with a provision for an office unit.

(v) Quarters for other Categories of Staff: The committee supports the proposal under first priority. 20 quarters may be of type "B" - plinth area 650 sq.ft.; 30 quarters type "A" - plinth area 480 sq.ft. The committee would

like to suggest that priority may be given to provide accommodation on the campus to such staff whose presence would be essential in view of the nature of their duties. The University may follow the guide-lines of the UGC in this regard.

(vi) Teacher's Hostel: The committee supports the proposal for the construction of a teacher's hostel under first priority in accordance with the norms laid down by the Commission. It was noted that the University has provided an area of 900 sq.ft. for a flat against an area of 720 sq. ft. suggested by the UGC.

(vii) Hostel Complex: The University has plans to construct hostels for 500 boys and 250 girls. The M.A., M.Sc., M. Phil., and Ph.D. programmes in most of the Schools will be introduced from July 1977 and in some schools from July 1978. The experts in their reports on individual Schools have recommended a modest student intake in each course. The total student enrolment may therefore do not require hostel facilities for 750 students in the fifth-plan. However, honours programmes will be implemented with effect from July 1980. The University may therefore be assisted for the construction of hostel for 750 students during the fifth-Plan, under first priority. The University is suggested to follow the norms laid down by the UGC, according to which the room area should not exceed 100 sq.ft. per student at the post-graduate and research levels. The committee also recommends assistance for the living room furniture, mess equipment

and utensils as also furniture for common rooms under first priority. The living room furniture will be in accordance with the norms laid down by the commission. The construction may be in 2 phases; I - 300 students; II - 250 Students.
(viii) Guest House: The committee supports the proposals under first priority. The University may build the guest house in accordance with the norms laid down by the commission. This will enable the University to have 8 single rooms and 4 double rooms with lounge and other facilities.

(ix) Buildings for Health Centre, Co-operative Stores, Gymnasium, etc.: The committee supports the proposals of the University under first priority. With regard to facilities for Sports and games, the committee was given to understand that separate funds are provided by the UGC out of the funds given by the Government of India for development of play-fields and Gymnasium, etc. The committee was also given to understand that because of the in-adequacy of funds the commission has not been accepting new proposals under the N.S.O. Scheme at present. Since such facilities are essential on a University Campus, the committee recommends that the University may be provided assistance by the UGC for creating such facilities on the campus as a special case.

(x) Administrative Block: The committee supports the proposal under first priority.

(xi) Minor works: The committee is unable to make any recommendation in this regard, Each proposal will need to be considered on its merit.

(xii) Boundary Wall: The committee supports under first priority .

6. The financial implications of the above recommendations have been worked out and are given below:

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in Lakhs)	
(1) <u>Buildings:</u>		
<u>Academic Complex buildings</u>		
1. Instrumentation Centre including air-conditioning		15.00
2. Buildings for Schools including laboratory fittings, electrification, laboratory furniture etc.		96.00
(2) <u>Residential Complex</u>		
1.) <u>Staff Quarters</u>		
a) Professors & Readers (type 1) 70 qrs.	51.80	
b) Lecturers II 30 qrs.	13.50	
c) Vice-Chancellor's residence	0.83	
d) Other categories including Class IV B-20, A-30	<u>9.70</u>	76.00
2.) Teachers' hostel		12.50
3) Hostel complex including furniture, equipment		70.25*
4.) <u>Other Constructions</u>		
a) Boundary Wall		5.50
b) Administrative building		8.00
c) Guest house		5.50
d) Accommodation for Health Centre, Gymnasium, sports and games complex, Co-operative stores and Cafeteria etc.		5.00
	<u>Total</u>	<u>293.75</u>
* 750 living space		66.00
Mess equipment		1.00
Living room fur.		2.50
Common room Fur.		0.75
		<u>70.25</u>

Rate of construction: Rs. 50/- per Sq.ft Acad, Bldg.
Rs. 35/- per Sq.ft Other "

DEVELOPMENT OF THE CAMPUS

1. The University has made proposals for the development of the campus. These include finalisation of the Master Plan, layout, grading, land-scaping, Horticultural Operation, construction of roads, paths, culverts, cross drains, sewage and sewerage arrangements, storm water drainage, etc. Funds have also been asked for providing water supply and electricity at the campus. The committee noted that the University has acquired an area of about 2,300 acres of land for the campus. The land is mostly flat with some undulations with scattered rock formation shrubs and several small irrigation tanks.

2. The University through the Government of A.P. has made arrangements for supply of filtered and drinking water in the campus from the Manjira reservoir as stated earlier. There are five open wells in the campus and one near the eastern boundary. Four of these wells have been drilled and deep bored. Seven tube wells have also been bored at different places. A few more tube wells may have to be bored and some more open wells have to be dug. Three over-head tanks, one sump and pipe lines are to be provided.

3. The A.P. State Electricity board has provided a temporary 11 k.v. line with a transformer in the campus for immediate supply of Electricity. In order to ensure electric supply with proper voltage to the various complexes of the University, it is proposed to construct three sub-stations at different places and install transformers.

4. Some steps have already been taken by the University for planting of trees in the campus. Soon after the Master Plan is available intensive horticultural operations for planting of trees, development of gardens and lawns etc. will be taken in hand.

5. The working group of the Government of India in its report had observed that "it will be, however, for the State Government to get the land properly developed before handing it over to the University authorities". The committee was given to understand that the Government of India in consultation with the State Government have clarified that the land will not be developed by the State Government and that there was no such commitment on the part of the State Government."

6. The University campus is situated beyond the Municipal limits and no facilities as required by the University are available on the campus. These facilities are essential on the campus and the committee recommends that funds may be provided for these purposes under first priority as indicated below. The details, as to how these schemes will be implemented may be finalised by the University directly with the UGC.

S.No.	Scheme	Ist priority	II priority
		(Rupees in lakhs)	
1.	Master Plan	1.50	
2.	Land-scaping, Layout, grading, Horticulture, etc.	8.00	
3.	Roads, Paths, Culverts, drains	21.00	
4.	Sewage & Sewerage, Storm water drainage	6.00	
5.	Water Supply	8.00	
6.	Electricity	3.50	
	Total:	48.00	

It was noted that each building of the University will have the facilities for septic tanks.

MISCELLANEOUS PROPOSALS

- (1.) Library: The committee has already recommended funds for Books and Journals, etc. for each School in the report of the respective Schools. Though the University will not be having its Central Library building during this plan, the committee has already emphasised the necessity of Central co-ordination, processing, etc. This is on page 36 of the report. The committee recommends one post of Librarian and two posts of Asst. Librarians for the University during the fifth-plan under first priority. A sum of Rupees 1.00 lakh is also recommended for the Library stationary, and Rupees 1.50 lakhs for Library equipment required for Central Xeroxing, Micro-filming facilities, etc. These recommendations are also under first priority.
- (2.) Central Instrumentation: The University, with a view to provide integrated inter-disciplinary programmes will inter-alia have schools in Life Sciences, Environmental Geosciences, Physics, Chemistry and Mathematics Computer/Information Sciences. These Schools will be broad based and would need variety of sophisticated instruments. The University will provide most of the common instruments in a Central place so as to avoid duplication. The committee noted that the University has already acquired some sophisticated instruments and more are to be added to this facility. The committee, in the individual reports of the Schools has given the list of the major instruments which would be needed by each School. The committee strongly supports the creation of this Central facility and recommends the following funds for the purchase of sophisticated instruments during the fifth-plan.

	<u>I Pr.</u>	<u>II Pr.</u>
	<u>(Rupees in lakhs)</u>	
Major Research Equipment	50.00	40.00

The committee also recommends one post of Principal Scientific Officer in the grade of Rs. 1500-2000 and one Scientific Officer in the grade of Rs. 700-1300 for this facility. The University

would need adequate technical staff in the pay scales of Rs. 350-900 and Rs. 425-700, for operating these instruments. In the initial stages, the University may have 2-3 senior technical Assistants and 2-3 Junior Technical Assistants. The University is advised to follow the recommendations made by the UGC committee on Central Instruments facilities in the Universities. The University's attention is also invited to the observations made by the committee on page ..35... of the report, in this regard.

(3.) Central Workshops: The University plans to set up a Central workshop facility for all the schools of the University. This central facility will include Mechanical workshop, Glass Blowing shop, Electronics Shop, and some provision for optical workshop including photographic facilities. The glass blowing shop will have facilities such as glass blowing lathes, grinder for ground joints, annealing oven, tools, jigs, and burners, etc. The University has asked funds for the creation of the above facilities in the University. The committee supports the proposals under first priority. A sum of Rs. 10 lakhs is recommended for the purchase of relevant machines, instruments, and other tools for creating all such facilities. Adequate technical staff at various levels would also be needed for proper functioning of each unit of the central workshop. This will however depend upon on the equipment, machines etc. which the University will provide in the workshop. The staff, which will be of different categories may be determined by the University in accordance with the guide lines suggested by the committee of the UGC for this purpose.

(4.) Consumables, Chemicals, etc.: The Schools in Sciences, particularly in Life Sciences, Environmental Geosciences, Chemistry and Physics, would need consumables such as Chemicals, glassware, solvents and other Laboratory supplies and animals for their programmes of teaching and research. The committee recommends that assistance may be provided

for this purpose. A provision of Rs.20 lakhs under first priority for the remaining period of the plan is made for such items. This would be at the rate of Rs.10 lakhs per annum for the Schools. A sum of Rs.10 lakhs is suggested under second priority.i.e. at the rate of Rs. 5.00 lakhs per annum.

(5.)Scholarships and Fellowships: The University is to admit students on an All India Basis. The working group on the University had recommended in its report that "in order to attract really talented students, there should be adequate provision for scholarships and fellowships". In view of this, the committee supports the proposals of the University for the award of Scholarships and merit-cum-means scholarships under first priority. The University has proposed a sum of Rs. 6 lakhs only for this purpose. The general issue as to what percentage of the total number of students will be given such scholarships is a matter of policy which the University may decide in consultation with the UGC.

The committee expects that it would be possible for the University to obtain funds from other Agencies like the C.S.I.R., ICAR., O.N.G.C., I.C.S.S.R., I.C.H.R. in the form of Research projects which will also have provision for scholarships and fellowships.

Most of the Schools have envisaged research programmes in collaboration with other schools, National Laboratories etc. The University has asked for fellowships (Junior & Senior) for each school. The University has to attract research scholars from all over the country. It has also to provide training facilities to students of Backward communities such as Scheduled Castes and Scheduled Tribes, in addition to the students and scholars coming from the under developed regions of the country.' The committee recommends a provision ~~of 40~~ junior research Fellowships to be awarded by the University for

such purposes. These may be awarded according to the guide lines of the UGC. The committee recommends that this may be provided outside the allocation.

(6.) Transport Facilities: The University proposes to purchase two buses, one truck, one staff car, and motor cycles/three wheeler scooters. It was stated that the State Road Transport will not be able to cope with the demand and it would be necessary to provide some transport facilities to the students and staff at the initial stages until other transport facilities are suitably developed. The truck will be used for the transportation of materials to the campus site. In view of the inadequate transport facilities of the State Government available at this stage and the distant location of the campus, the committee supports the proposals under first priority. A provision of Rs.5.85 lakhs is made for this purpose. It was noted that the University has already acquired one mini-bus, one jeep and one car at present.

(7.) Furniture and Office Equipment: Funds to the tune of Rs.4 lakhs have been asked for providing office furniture, equipment, etc. for the various offices of the University. The committee suggests a provision of Rs. 2.5 lakhs under first priority, and Rs. 1.50 lakhs under second priority.

(8.) Printing Press: The committee suggests that the proposal of the university for having a printing press may be postponed to the next plan.

(9.) PBX facilities: The committee supports this under first priority.

(10.) Non-teaching Staff: The University has made proposals for the appointment of non-teaching staff for its various offices. The committee noted that the University is at present working with a skeleton staff. With its increased activities and proposed developments the various offices will have to be properly staffed. The recommendations made by the committee under first priority are given in the Annexure _____. This would involve an estimated expenditure of Rs. for the remaining period of the fifth-plan. The committee has not made any recommendation for the posts of Architect and Asst. Architect as this involves a policy. The University may approach the commission separately for these posts.

(11.) Seminars/workshops/Visiting Fellowships/Publications: The University has asked funds for the organisation of seminars/workshops and for inviting visiting fellows. These will be important activities for promoting inter-disciplinary activities of the University. Some working groups have also suggested the publication of lecture notes. The committee supports the proposals of the university and recommends a provision of Rs. 2.50 lakhs for all these activities for all the schools during the remaining period of the fifth-plan.

PART - VII - FINANCIAL IMPLICATIONS

1. The commission allocated a sum of Rs. 6 crores for this University under two priorities. First priority being Rs. 4 crores and second priority being Rs. 2 crores. First priority will also include schemes already accepted by the commission. The schemes already accepted by the commission involve a sum of Rs. 1.71 crores. These schemes relate to the purchase of Books, Journals (Rupees 34.50 Lakhs), equipment (Rs. 53.10 lakhs) and some other proposals as given in annexure 6. The University is therefore left with a sum of about Rs. 2.59 crores under first priority. Against this, the University has formulated proposals involving a sum of Rs. 2.2 crores under first priority and Rs. 1 crore under second priority.

2. The University of Hyderabad has emerged out of the "six point formula" it has to provide integrated inter-disciplinary course in Humanities, social sciences, Natural and Life Sciences, at the Honours, M.A., M.Sc., M. Phil. and Ph.D. levels. The courses will be broad based, flexible, suiting to the needs of the region and the country and also taking note of social relevance. The University is to interact with National Laboratories and other institutions. In order to achieve these objectives well-conceived schools have been created. These schools are to be established and for these schools, buildings, equipment, Books, Journals, academic and supporting staff, etc. are to be provided. The needs of such a University with a variety of programmes/Courses cannot be determined like the needs of other traditional or established Universities. A different approach was therefore ~~important~~ in making recommendations for this University.

majority of the students. The University has to have an All India Character in the students community. It has also to take special care of Scheduled Caste and Scheduled Tribes students. Provision of adequate scholarships is also essential. The broad spectrum of the courses would require visiting faculty and hence the provision for visiting fellows. All these considerations had been kept in view by the committee in making its recommendations. The University is to function effectively at its own early. This is because of the special situation under which the University had to be established. It was therefore not possible for the committee to suggest the postponement of certain facilities which are to be provided in the University. This was another important consideration before the committee.

3. The campus site is far away from the city. It is just a barren land with no living facilities nearby. The campus is to be provided with roads, water, electricity, and sewage facilities. Residential facilities for staff and students, provision for health centre, co-operative store, etc. are also to be made.

4. The committee took all care in recommending the most essential requirements of the University keeping in view the position as stated in above paragraphs. The financial implications of the recommendations made under first priority amount to Rs. 783.92 lakhs and under second priority Rs. 86.50 lakhs it is obvious that even the first priority recommendations are more than Rs. 6 crores.

5. The committee understands that the commission has agreed to provide funds over and above the allocations made to the Universities for staff quarters of 50% of the faculty positions sanctioned during the fifth five-year plan period, for the construction of staff quarters for some of the essential staff, for campus development schemes of most of the central Universities, and for the development of play-fields and gymnasium. The committee observed that even if the provisions made for the above purposes are excluded from the recommendations made by it, the total recommendations of the committee under first priority still exceeds the allocations made by the U.G.C.

The committee was however unable to further minimise its recommendations in view of the special circumstances under which the university was created as also in view of the types of the teaching and research programmes to be provided by it.

6. The committee fully knows that the commission is aware of the situation and will take into consideration all the observations made by the committee in deliberating the recommendations made by it.

7. The Committee would particularly emphasize that suitable programmes for Hindi be introduced.

PART - VIII - ACKNOWLEDGEMENT

The committee puts on record its sincere thanks to Prof. Gurbakhsh Singh, Vice-Chancellor, University of Hyderabad, the Faculty, students and officers of the University in facilitating the visit of the committee.

1. Dr. A.R. Verma - Convener
2. Prof. S.C. Dube - Member
3. Prof. P.K. Ghosh - Member
4. Prof. H.K. Manmohan Singh - Member
5. Prof. S.C. Mishra - Member
6. Dr. Hari Narayan - Member
7. Dr. C.N.R. Rao - Member
8. Prof. O. Siddiqui - Member
9. Dr. M.L. Mehta - Secretary

Dated 24-25th November, 1976

Working Group on the establishment of the
Central University at Hyderabad.

...

1. Dr. George Jacob Chairman
Chairman
University Grants Commission
New Delhi.
2. Professor Satish Chandra Member
Vice-Chairman
University Grants Commission
New Delhi.
3. Professor Rais Ahmed . "
Director
National Council of Educational
Research and Training
New Delhi
4. Professor M. Santappa "
Director
Central Leather Research Institute
Adyar, Madras.
5. Professor B.K. Anand "
Dean
All India Institute of
Medical Sciences
New Delhi.
6. Professor P.J. Madan "
Pro-Vice-Chancellor
University of Baroda
Baroda.
7. Shri R.K. Chhabra "
Secretary
University Grants Commission
New Delhi.
8. Shri R.S. Chitkara Member-Secretary
Director
Ministry of Education &
Social Welfare
New Delhi.

Recommendations of Working Group of Govt. of India

1. The university should be a unitary university; its jurisdiction should extend over its campus. It should, however, have powers to establish and maintain special centres, specialized laboratories, etc. for research in places outside its jurisdiction.
2. The objects of the university should be to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit and by the example of its corporate life and in particular to make special provision for undergraduate courses in Humanities and Science in the educational programmes of the university and to take appropriate measures for promoting inter-disciplinary studies and research in the university.
3. The university should offer three-year honours courses and two-year Master's courses and one year M.Phil. or such other courses in addition to research facilities.
4. The university in the first phase should provide for integrated courses in the Humanities, Social Sciences, Commerce and Natural Sciences.
5. The traditional structural pattern of the universities in which a department is created for each separate discipline, should be replaced by creating a few well-conceived schools each of which should consist of a group of centres. The focus in each centre should be a major problem of study which will require an inter-disciplinary approach and which would be of special significance to the country in the present situation. The scope of the schools may be determined by the Planning Board after a full study of educational and research activities of the universities in the region.
6. The recommendations made by the / from time to time; particularly with regard to semester system, admission test, internal assessment, combination of subjects, work experience and inter-disciplinary studies, should be adopted.
7. The university should be open to persons of either sex and of whatever race, creed, caste or class. Special provision may, however, be made for admission for students of weaker sections, particularly scheduled castes and scheduled tribes.
8. Admissions to the university should be on an all-India basis and admission tests may be prescribed for admission to different courses. Apart from the reservations suggested in (g), no reservation be made for candidates belonging to a particular region or State.

9. Recruitment of staff should be on an all-India basis.
10. Provision should be made to enable students from other universities to pursue some courses at the university and earn due credit/credits for the work done in the university towards the completion of their courses.
11. In order to attract really talented students, there should be adequate provision for scholarships and fellowships.
12. The site for the university should have an area of atleast 1,000 acres.
13. The construction of residential accommodation for students as well as staff should be given high priority and properly phased, with modern concepts in the construction of buildings subject to local modifications should be adopted in the construction of buildings on the campus.
14. The medium of instruction in the university may be English.
15. Admissions to the university should be so phased that the total enrolment at the end of the 5th five-year plan should not exceed 3,000.
16. In constituting the Court, the Executive Council, the Academic Council, Boards of Studies etc., the recommendation made by the Gajendragadkar Committee on 'Governance of Universities' should generally be followed.
17. In order to plan properly the working and development of the university, a Planning Board consisting of persons of high academic standing should be set up for a period of three years or so. The Board should keep under review the standard of education and research in the university.

Annexure-3

Workshop and Woodworking machines already acquired

.....

1. Kirloskar Lathe
2. Arco Whitney Hydraulic Cutting, Punching and Notching machine.
3. Praga Tool Cutter Grinder.
4. Praga Surface Grinder.
5. Hydraulic Power Hacksaw
6. Batliboi Shaper
7. Praga Universal Milling Machine (on order)
8. Praga Drilling & Tapping Machine (on order)
9. Planer (36").
10. Bandsaw 7½ H.P.
11. Dimension Saw.
12. Moulder.
13. Dominion's Mortiser.
14. Cross cut saw (on order).
15. Heavy Duty Router (on order).
16. Advani Rectifier type Welding Machine.

List of Periodicals subscribed for the School of Mathematics

<u>S.No.</u>	<u>Title</u>
1.	Journal of American Statistical Association.
2.	Journal of Royal Statistical Society (Ser.A,B &C)
3.	Royal Society of London Proceedings (Mathematical)

List of Back Volumes procured for the School of Mathematics.

1. Mathematische Zeitschrift.
2. American Mathematical Monthly.
3. Communications on Pure and Applied Mathematics.
4. SIAM Journal of Applied Mathematics.
5. Mathematische Annalen.
6. Journal of the Institutes of Mathematics and its applications.
7. Quarterly Journal of Mechanics & Applied Mathematics.
8. Mathematical Gazette.
9. Anals of Mathematical Logic.
10. Anals of Institnt Fourier.
11. Journal of Functional Analysis.
12. Discrete Mathematics
13. Journal of Differential Equations.
14. Acquistion Mathematics.
15. Journal of Applied Probability.
16. Mathematical Systems Theory.
17. SIAM Theory of Analysis & Mathematical Analysis.
18. Proceedings of London Mathematical Society.
19. Indiana University Mathematical Journal.
20. Mathematics of Computation.

Contd.....

21. Memerssche Mathematik.
22. Mathematics of U.S.S.R. Sbornik (6)
23. SIAM Review.
24. Annals of Mathematics
25. Acta Mathematica
26. Russian Mathematical Survey.
27. Mathematical Programming
28. Inventiones Mathematica
29. Journal of Indian Mathematical Society.
30. Annals of Mathematical Statistics.
31. Mathematical Review.
32. Quarterly Journal of Mechanics & Applied Mathematics.
33. A.J. of Applied Mathematics.
34. SIAM Numerical Analysis.
35. Mathematical Gazette.

List of Back Volumes procured for the school of Life Sciences.

<u>S.No.</u>	<u>Title</u>
	(7)
1.	Biochemical Genetics.
2.	Journal of Cell Sciences.
3.	Biological Abstracts.
4.	Journal of bacteriology.
5.	Genetics.
6.	New Phytologists.
7.	Developmental Biology.
8.	Botanical Reviews.
9.	Journal of Experimental Biology.
10.	Journal of Experimental Zoology.
11.	Annales of Applied Biology.
12.	Journal of General Microbiology.
13.	Annual Review of Genetics.
14.	Annual Review of Microbiology.
15.	Society for Experimental Biology and Medicine. Proceedings.
16.	Planta.
17.	Ecology.
18.	American Journal of Botany.
19.	Canadian Journal of Microbiology.
20.	Journal of Insect Physiology.
21.	Radiation Botany.
22.	Genetical Research.
23.	Archives fur Microbiology.
24.	Chromosoma.
25.	Life Sciences.

Contd.....

26. Progress in Biophysics and Molecular Biology.
27. Transactions of Royal Entomological Society.
28. Bacteriological Reviews.
29. Journal of Experimental Botany.
30. Nature.
31. Botanical Gazettee.
32. Annual Review of Plant Physiology.
33. Quarterly Review of Biology.
34. Journal of Molecular Biology
35. Journal of Cell Biology
36. Evolution.
37. Journal of Morphology.
38. Progress in Nuclear Acid Research and Molecular Biology.
39. Advances in Applied Microbiology.
40. Advances in Enzymology & Related Subject.
41. Zeitschrift fuer Nature Gorsung.
42. Archives of Biochemistry & Biophysics.
43. Biochemical & Biochemistry & Biophysics.
44. Journal of Histochemistry and Cytochemistry.
45. Biochemica et Biophysica Acta.
46. Advances in Protein Chemistry.
47. Annual Review of Biochemistry.
48. Journal of Biochemistry.
49. Biochemical Journal.
50. European Journal of Biochemistry.
51. Biochemische Zeitschrift.
52. Molecular and General Genetics.
53. Theoretical and Applied Genetics.
54. Indian Journal of Plant Physiology.
55. Journal of Membrane Biology.

Contd.....

- (9)
56. Journal of Ecology.
 57. Journal of Virology.
 58. Mutation Research.
 59. Biological Reviews.
 60. Cytologia.
 61. Australian Journal of Zoology.
 62. Biology of Reproduction.
 63. Environmental Research.
 64. Canadian Journal of Microbiology.
 65. Journal of Zoology.
 66. Molecular and Cellular Biochemistry.
 67. Journal of Biological Chemistry.
 68. Annals of Botany (New Series).
 69. Cytogenetics.
 70. Canadian Journal of Genetics and Cytology.
 71. Biologists.
 72. Canadian Journal of Zoology.
 73. Archives fur Microbiology.
 74. Advances in Genetics.
 75. Virology.
 76. Photochemistry & Photobiology.
 77. Land Economics.
 78. Experimental Cell Research.
 79. Cell and Tissue Research.
 80. Review of Plant Pathology.
 81. Mycologia.
 82. Phytopathology.
 83. Plant Physiology.
 84. Journal of Paleontology.
 85. Solar Energy.

Contd.....

86. Environmental Pollution.
87. Journal of Soil and Water Conservation.
88. Journal of Soil and Water Conservation (India).
89. Studies in conservation.
90. American Journal of Botany.
91. Progress in Nuclie Research and Molecular Biology.
92. Journal of Bioenergetics.

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List of Periodicals subscribed for the school of Life Sciences.S.No.

1. American Journal of Botany.
 2. Archives Fur Microbiology.
 3. Australian Journal of Microbiology.
 4. Bacteriological Reviews.
 5. Biochemica Et Biophysica Acta (All Series).
 6. Biochemical & Biophysical Research Communications.
 7. Biochemical Genetics.
 8. Biochemical Journal.
 9. Biological Abstracts.
 10. Biologist.
 11. Botanical Gazette.
 12. Canadian Journal of Zoology.
 13. European Journal of Biochemistry.
 14. Genetics.
 15. Journal of Bacteriology.
 16. Journal of Biological Chemistry.
 17. Journal of Experimental Botany.
 18. Journal of Experimental Zoology.
 19. Journal of Microbiology.
 20. Journal of Molecular Biology.
 21. Molecular & Cell Biochemistry.
 22. Nature.
 23. Royal Society of London Proceedings (Biological.).
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LIST OF BACK VOLUMES PROCURED FOR THE SCHOOL OF PHYSICS

<u>S.No.</u>	<u>Title</u>
1.	Electronics.
2.	Journal of Mechanics.
3.	Physical Review
4.	Journal of Physical Society of Japan.
5.	Physical Society Proceedings.
6.	Physica.
7.	Journal of Physics.
8.	Molecular Physics.
9.	Review of Modern Physics.
10.	Journal of Chemical Physics.
11.	Royal Philosophical Society Transactions.
12.	Journal of Molecular Spectroscopy.
13.	Advances in Electronics & Electrophysics.
14.	Optical Society of American Journal.
15.	Journal of Applied Mechanics.
16.	Journal of Research of the National Bureau of Standards.
17.	Annalender Physics.
18.	Zeitschrift Fuer Physik.
19.	International Journal of Applied Radiation. and Isotopes.
20.	Archives for National Mechanics and Analysis.
21.	Vacuum.
22.	Progress in Theoretical Physics.
23.	Philosophical Magazine.
24.	Nuclear Instruments and Methods.
25.	Royal Society of London Proceedings.

Contd.....

26. Physics Abstracts. (13)
27. Nuclear Physics.
28. Annals of Physics.
29. Soviet Physics. (JETP)
30. Physical Reviews.
31. Physics Letters.
32. Journal of Physics & Chemistry of Solids.
33. Communications in Mathematical Physics.
34. Nuclear Science Abstracts.

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List of Periodicals subscribed for the school of Physics

<u>S.No.</u>	<u>Title.</u>	(14)
1.	Applied Physics Letters.	
2.	Canadian Journal of Physics.	
3.	Chemical Physics.	
4.	Chemical Physics Letters.	
5.	Earth and Planetary Science Letters.	
6.	IEEE Quantum Electronics.	
7.	Journal of Physics (All parts) (A-G)	
8.	Journal of Molecular Spectroscopy.	
9.	Journal of Physics & Chemistry of Solids.	
10.	Molecular Physics.	
11.	Nuclear Abstracts.	
12.	Nuclear Instruments & Methods.	
13.	Nuclear Physics (A+B).	
14.	Physica (All Series)	
15.	Physical Review (Series A-D)	
16.	Physical Review Letters.	
17.	Physics Abstracts.	
18.	Royal Society of London Proceedings.	

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P

List of Periodicals subscribed for the school of Chemistry.

<u>S.No.</u>	<u>Title</u>	(15)
1.	Acta Chemica Research.	
2.	Acta Chemica Scandinavica.	
3.	Angewandte Chemie.	
4.	Analytical Chemistry.	
5.	Annals De Chemie.	
6.	Australian Journal of Chemistry.	
7.	Bulletin of Chemistry Society of Japan.	
8.	Canadian Journal of Chemistry.	
9.	Chemische Berichte.	
10.	Chemistry & Industry.	
11.	Chemistry Letters.	
12.	Chemical Reviews.	
13.	Chemical Society London Journal (All Series).	
14.	Current Abstracts of Chemistry & Index Chemicus.	
15.	Chemical Abstracts.	
16.	Chemistry in Britain.	
17.	Chemical Communications.	
18.	Chemical & Pharmaceutical Bulletin.	
19.	Gazetta Chemica Italiana.	
20.	Helvetica Chemica Italiana.	
21.	Inorganic Chemistry.	
22.	Inorganic & Nuclear Chemistry Letters.	
23.	International Journal of Quantum Chemistry.	
24.	Journal of American Chemical Society.	
25.	Journal of Chemical Education.	

Contd.....

26. Journal of Chemical Physics. (16)
27. Journal of Organic Chemistry.
28. Journal of Physical Chemistry.
29. Recueil Des Travaux Chimiques des pays bas.
30. Society Chimique de France Bulletin.
31. Spectro Chemica Acta. (Pt. A & B).
32. Synthesis.
33. Synthetic Communications.
34. Tetrahedron & Tetrahedron Reports.
35. Tetrahedron Letters.

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P

ENGLISH
(PERIODICALS & JOURNALS)

<u>S.No.</u>	<u>Title</u>	(17)
1.	Keats & Shelly Journal	
2.	Publication of the Modern Language, Association of America.	
3.	American Literature.	
4.	College English.	
5.	Essays and Studies by Members of English Association.	
6.	Explicator.	
7.	Journal of Commonwealth Literature.	
8.	Modern Fiction Studies.	
9.	Modern Language Review.	
10.	New Theatre Magazine.	
11.	Poetry Review London.	
12.	Poetry.	
13.	Southern Review.	
14.	Criticism.	
15.	English Literature in Transition.	
16.	New Shakespeare Society, London Publication.	
17.	Royal Society of Literature of the United Kingdom.	
18.	Sewanee Review.	
19.	Shakespeare Society of London Publication.	
20.	Essays in Criticism Oxford.	
21.	English Studies.	
22.	Modern Language Journal.	
23.	Renaissance Quarterly.	
24.	Modern Language Notes.	
25.	20th Century Literature.	
26.	Modern Language Association.	

Contd.....2

<u>S.No.</u>	<u>Title</u>	
27.	New Directions.	(18)
28.	20th Century Literature.	
29.	Comparative Drama.	
30.	Journal of Linguistics.	
31.	Kenyan Review.	
32.	Nineteenth Century Fiction.	
33.	Studies in Linguistics.	
34.	Studies in Romanticism. (Boston)	
35.	Standard Studies in Language and Literature.	
36.	Years Work in English Studies.	
37.	Critical Quarterly.	
39.	Texas Studies in Literature.	
40.	Art and Literature.	
41.	English Journal.	
42.	Medieval and Renaissance Studies.	
43.	Essays and Studies by Members of the English Association.	
44.	Literature & Psychology.	
45.	Modern Language Quarterly.	
46.	Contemporary Poetry.	
47.	Michigan Quarterly Review.	
48.	New Verse.	
49.	Poetry and Drama.	
50.	Twentieth Century Verse.	
51.	Journal of Commonwealth Literature.	
52.	Journal of English Literary History.	
53.	Notes & Queries.	

Contd.....

54. Reviews of English Studies.
55. Studies in English Literature.
56. The Drama Review. (19)
57. Victorian Poetry.
58. Victorian Studies.
59. Years Work in Modern Language Studies.
60. Journal of Art and Aesthetics or Journal of
 Aesthetics and Art Criticism.
61. Review of English Literature.

62. Modern Philology.
64. Twentieth Century.
65. ELH. Journal of English Library History.
66. I.B.M. System Journal.

ANNEXURE 4

Break of the expenditure incurred on the purchase/
subscription of books & journals upto 8th Nov. 1976

A. <u>Summary of the expenditure</u>		Rs.	
1. Back volumes	(No. 15,927)	25,95,581.49	
2. Books	(" 1,549)	4,33,972.26	
3. Subscription of journals	(" 84)	<u>2,87,644.19</u>	
		<u>33,17,197.94</u>	

B. <u>Schoolwise break-up</u>		Books	Rs.	Back Vols.	Rs.
-----		-----	-----	-----	-----
1. School of Chemistry	(No. 633)	3,84,600.34		No. 4,092	6,44,354.42
2. School of Physics	(" 87)	7,767.11		" 793	3,91,990.36
3. School of Life Sciences	(" 28)	17,767.11		" 5,148	10,35,732.00
4. School of Mathemat- ics Computer/ Information Sciences.	(" 60)	4,019.46		" 1,140	2,35,764.17
5. School of Humanities (English & Philosophy)	(" 738)	20,089.11		" 2,075	1,32,982.00
6. School of Social Sciences (Econ.)	(" 738)	45.00		" 504	1,46,000.00
7. School of Environmental GeoSciences	--	--		" 185	9,755.00
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		(No. 1,549)	4,33,972.26	(" 15,927)	25,95,581.42
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C. <u>Subscription of journals break-up</u>		(for the year 1976)	
1. Chemistry	(No. 35)	79,307.37	
2. Physics	(" 15)	46,687.14	
3. Life Sciences	(" 22)	57,603.34	
4. Economics	(" 8)	2,492.90	
5. Mathematics	(" 3)	1,915.77	
6. Environmental GeoSciences	(" 1)	201.94	
-----		-----	-----
		(No. 84)	1,88,208.46
-----		-----	-----

List of scientific instruments for research
already acquired

1. C13 Fourier Transform NMR Machine (Jeol) 100 Megacycle.	Rs. 15,38,812.00
2. Continuous wave 100 megacycle NMR Machine (Joel).	
3. X-ray crystal analyser (Enraf Nonins, Holland)	Rs. 1,86,445.10
4. Perkin-Elmer IR, Computer Compatible machine model 283.	Rs. 2,19,638.25
5. Cary 17D recording, U.V. Visible & near infrared machine.	Rs. 3,88,257.30
6. Hewlett packard C,H&N Analyser	Rs. 3,04,115.90
7. Hewlett Packard GLC machine	
8. AEI MS50 Mass Spectrometer with facilities for GLC	Rs. 17,83,081.75
9. MSE Ultra Centrifuge with 7500 r.p.m.	Rs. 2,77,081.75
10. MSE Refrigerated Centrifuge (capacity 6 Liters)	
11. Beckman three chanel liquid scientillation counter.	Rs. 1,66,631.95
12. N.V. Phillips Liquid Nitrogen Machine	Rs. 3,49,389.85
13. 110 Empty Gas Cylinders Missui Bussan Chemical Machinery Co. Japan.	Rs. 77,335.85
14. Circulating Low Temperature Baths (Haake Mess tachinik GMBH)	Rs. 10,727.60
15. Water's High Pressure Liquid Chromatography.	Rs. 1,94,288.30
16. Refrigerator Fraction Colloctor (ISCO, USA)	Rs. 37,049.80
17. Scotsman ICE Flaker (Firmont- SPM)	Rs. 22,865.00
18. Mettler's Melting Point Apparatus	Rs. 48,781.10
19. Rotavapors, Magnetic Stirrer, Gelelectrophoresis etc.	Rs. 77,944.55

ANNEXURE - 6LIST OF SCHEMES ALREADY APPROVED BY THE UGC

<u>Sl No.</u>	<u>Scheme</u>	<u>Expenditure Approved</u>
1.	Adhoc Grant	35,00,000 (paid)
2.	Books and Journals	34,49,686
3.	Library Stacks & furniture	4,00,000
4.	Repairs, Golden Threshold and Gopal Clinic	1,75,000
5.	Boundary Wall	13,25,948
6.	Electric Pump with Switch Gears	2,00,000
7.	Electricity to buildings and electric connections to pumps	5,50,000
8.	Mini-Bus	1,00,616
9.	Workshop and wood working machine	5,25,000
10.	M. Phil. Fellowships	1,50,000
11.	Ideas competition	1,50,000
12.	Scientific equipment	53,10,215
13.	Temporary buildings for Science Schools	8,06,599
14.	Wood working workshop- cum- Storage shed	4,00,190
15.	Temporary shed for field staff	1,10,000
Total:		1,71,53,254

UNIVERSITY OF HYDERABAD

Names of the members of the Planning Board:

1. Prof. Gurbakhsh Singh,
Vice-Chancellor,
University of Hyderabad,
Hyderabad.
2. Dr. G.S. Sidhu,
Director,
Regional Research Laboratory,
Hyderabad.
3. Dr. Hari Narain,
Director,
National Geophysical Research Institute,
(Council of Scientific and Industrial Research),
Uppal Road,
Hyderabad.
4. Prof. E.V. Krishna Murth,
Professor of Mathematics,
Indian Institute of Science,
Banagalore.
5. Prof. S. Gopal,
Professor of History,
National Book Trust, India,
A-5, Green Park
New Delhi.
6. Prof. O.H. Siddiqui,
Tata Institute of Fundamental Research,
Homi Bhabha Road,
Bombay.
7. Prof. K. Satchidananda Murthy,
National Fellow in Humanities,
Chairman, Faculty of Arts,
Andhra University,
Visakhapatnam.
8. Prof. M. Shabbir Khan,
Professor of Economics,
Aligarh Muslim University,
Aligarh.

Names of the Members of the Academic Council:

1. Prof. V.V.S. Murti,
Head of the Chemistry Department & Dean
Faculty of Science,
University of Delhi,
Delhi.
2. Prof. Lallanji Gopal,
Head, Department of AIHC & Archaeology,
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Varanasi.
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University Grants Commission,
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4. Dr. Raziuddin Ahmed,
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5. Dr. K. Veerabhadra Rao,
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Telugu Academi,
Hyderabad.
6. Prof. G.S. Bhalla,
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Jawaharlal Nehru University,
New Delhi.
7. Dr. C. Parvathamma,
Prof. & Head of the Deptt. of Post-graduate studies
& Research in Sociology,
University of Mysore,
Manasa Gangotri,
Mysore.
8. Dr. F.R. Saha,
Director,
Indian Institute of Tropical Meteorology,
Randurg House, University Road,
Poona.
9. Prof. G.N. Ramachandran,
Institute Professor of Bio-Physics,
Indian Institute of Science,
Molecular Biophysics Unit,
Bengalore.
10. Dr. S. Menzoor Alam,
Department of Geography,
Osmania University,
Hyderabad.

Notes:- In addition, there will be 11 faculty members.

Names of the Members of the Executive Council:

1. Prof. Gurbakhsh Singh,
Vice-Chancellor
University of Hyderabad,
Hyderabad.
2. Prof. Rasheeduddin Khan,
Member, Rajya Sabha,
Dean, School of Social Sciences
Jawaharlal Nehru University,
New Mehrauli Road,
New Delhi.
3. Shri M. Ghalapathi Rao,
Editor,
National Herald,
Bahadurshah Zafar Marg,
New Delhi.
4. Dr. Y. Nayudamma,
Director-General,
Council of Scientific & Industrial Research,
Rafi Marg, New Delhi.
5. Dr. M. Santappa,
Director,
Central Leather Research Institute,
Adyar, MADRAS.
6. Dr. S. Zahoor Qasim,
Director
National Institute of Oceanography
Nio Post Office,
Dona Paula, GOA.
7. Shri D. Ramanuja Rao,
Secretary,
Andhra Pradesh Sahitya Akademy,
Kalabhavan, Hyderabad.
8. Dr. Ramesh Mohan,
Director,
Central Institute of English & Foreign Languages,
Hyderabad.
9. Prof. Balwanth Reddy,
Professor of Economics,
Administrative Staff College of India,
Bella Vista, Post Box No. 4,
Hyderabad.
10. Dr. A.S. Rao,
Managing Director,
Electronics Corporation of India Ltd.,
Cherlapally, Hyderabad.

Working Groups for different Schools

...

I. School of Mathematics & Computer Sciences

1. Prof. R. Narasimhan
Head, Computer Group
Tata Institute of Fundamental Research
Homi Bhabha Road
Bombay.
2. Prof. K.G. Ramanathan
School of Mathematics
Tata Institute of Fundamental Research
Homi Bhabha Road
Bombay.
3. Prof. M. Venkataraman
Professor and Head of the
Department of Mathematics
Madurai University
Madurai (Tamil Nadu).
4. Prof. J. Roy
Research Professor
India Statistical Institute
Calcutta-35.
5. Prof. E.V. Krishnamurty
Indian Institute of Science
Bangalore.

... Convener.

II. School of Environmental Geo-Sciences

1. Dr. C. Karunakaran
Director General
Geological Survey of India
Calcutta
2. Dr. M.N. Siddiqi
Assistant Director
Institute of National Oceanography
Panaji, Goa.
3. Dr. Mana
National Centre of the Government
of India for Nuclear Science and
Mathematics
Tata Institute of Fundamental Research
Homi Bhabha Road
Bombay.

P.T.O.

4. Prof. R.N. Dave
National Environmental Engineering
Research Institute
Jawaharlal Marg
Nagpur.
5. Prof. A.S. Ramadas
Head of the Department of Geology
Andhra University
Visakhapatnam.
6. Prof. V.K. Gaur
Professor of Geophysics
Department of Geology & Geophysics
University of Roorkee
Roorkee.
7. Prof. A.K. Saha
Director
Institute of Tropical Meteorology
Poona.
8. Prof. V.L.S. Bhimasankaram
Professor & Head of the
Department of Geophysics
Osmania University
Hyderabad.
9. Dr. Hari Narain
Director
National Geophysical Research Institute
Hyderabad.

... Convener

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Osmania University
Hyderabad.
2. Prof. B.R. Rao
Professor & Head of the
Department of Physics
Andhra University
Visakhapatnam.
3. Prof. M.V. George
Department of Chemistry
Indian Institute of Technology
Kanpur.

4. Prof. A.B. Biswas
Professor of Chemistry
Indian Institute of Technology
Bombay.
5. Dr. G.S. Sidhu
Director
Regional Research Laboratory
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Director
National Physical Laboratory
Hillside Road
New Delhi.
7. Prof. H.S. Hans
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Punjab University
Chandigarh.
8. Prof. B.S. Sood
Professor and Head of the
Department of Physics
Punjabi University
Patiala.
9. Prof. C.C. Patel
Institute of Sciences
Bangalore.
10. Prof. C. Mande
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Department of Physics
Indian Institute of Technology
Kanpur

(The Vice-Chancellor, Prof. Gurbakhsh Singh
will be the Convener).

P.T.O.

IV. School of Social Sciences

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Department of History
Calcutta University
Calcutta.
2. Prof. R.S. Sharma
Department of History
Delhi University
Delhi.
3. Prof. Sheik Ali
Department of History
Mysore University
Mysore.
4. Prof. S. Gopal
Professor of History
Jawaharlal Nehru University
New Delhi. ... Convener.

Philosophy

1. Dr. Daya Krishna
Professor and Head of the
Department of Philosophy
Rajasthan University
Jaipur.
2. Dr. Rajendra Prasad
Senior Professor of Philosophy
Indian Institute of Technology
Kanpur.
3. Prof. D.P. Chattopadhyaya
Ministry of Commerce
Udyog Bhavan
New Delhi.
4. Prof. T.R.V. Murti
46-A, Ravindrapuri
Varanasi-5.
5. Prof. Syed Vahiduddin
Retired Professor
Delhi University
Research Director
Institute of History of
Medicine and Medical Research
Madangir P.O.
New Delhi.

6. Prof. K. Satchidananda Murty ... Convener.
Andhra University
Visakhapatnam.

Regional Studies

1. Prof. S. Gopal
Professor of History
Jawaharlal Nehru University
New Delhi.
2. Dr. B. Gopal Reddy
Chairman
Telugu Sahitya Academi
Kala Bhavan
Saifabad, Hyderabad.
3. Dr. V.R. Narla
Editor
"Andhra Jyoti"
Hyderabad
4. Prof. K.V.R. Narasimham
Retired Professor of Telugu
Andhra University
Sripuram
Visakhapatnam.
5. Prof. K. Satchidananda Murty ... Convener.
Professor of Philosophy
Andhra University
Visakhapatnam.

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Annemalai University
Annemalainagar P.O.
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Professor of Sociology
Department of Sociology
(Centre of Advanced Study in Sociology)
Delhi School of Economics
University of Delhi
Delhi.

3. Dr. Surajit Sinha
Director
Anthropological Survey of India
Indian Museum
Jawaharlal Nehru Road
Calcutta.
4. Prof. O. Siddiqi
Molecular Biology Unit
Tata Institute of Fundamental Research
Homi Bhabha Road
Bombay.
5. Prof. Mohammad Shabbir Khan
Professor of Economics
Aligarh Muslim University
Aligarh.
6. Prof. S. Gopal
Professor of History
Jawaharlal Nehru University
New Delhi. Convener.

Sahani

Working Groups recommended by the Co-ordinating group of the
School of Social Sciences:

Department of Human Geography

Dr. S. Chakravorty
Prof. S. Manzoor Alam
Prof. Moonis Raza
Dr. V.L.S. Prakasha Rao

Department of Political Science and Public Admn.

Prof. Rasheeduddin Khan
Prof. Randhir Singh
Prof. Shanti Swarup
Prof. Kuldip Mathur
Prof. C.P. Bhambhri

Department of Psychology

Prof. M.M. Sinha
Prof. E. Parameswaran
Dr. J. B.P. Sinha
Dr. Asthana

Department of Sociology and Social Anthropology

Prof. Surajit Sinha
Prof. S.C. Dube
Prof. Yogendra Singh
Prof. Sachidananda
Prof. D' Souza
Prof. M.S.A. Rao

Centre for Social Polity

Prof. Tapas Majumder
Mr. J.P. Naik
Dr. Asok Mitra
Dr. V.A. Pai Pahandikar

Centre for Regional Development

Dr. Yogendra Alagh
Dr. Waheeduddin Khan
Prof. Moonis Raza
Prof. G. Parthasarathi

Centre for Population Studies

Dr. Asish Bose
Dr. J.R. Rele
Dr. B.K. Roy burman
Dr. Ghoshal

SCHOOL OF ENVIRONMENTAL GEOSCIENCESTOPICS FOR COVERAGE IN M. SC. & M.Phil. COURSES1. Natural Resources (General):

What is a natural resource? Renewable and non-renewable types of mineral deposits; metals (abundant and scarce); industrial minerals (chemicals and fertilisers); industrial rocks; fossil fuels (oil and coal); land, soils, water, forest resources. Solar, geothermal, tidal, wind and oceanic energies.

2. Renewable resources:

Role of renewable resources in national economy; ground water as renewable resource; hydrological cycle - systems view; physical properties of water; water-soil interaction, infiltration, evaporation, evapotranspiration; groundwater flow in hard and soft rocks; influence of topography ground water quality; geophysical and geochemical methods of estimation of groundwater resources; digital and analog modelling; optimal utilisation of ground water by linear programming method. Forest resources, land use planning. Estimation of wind, tide and solar energies; techniques and economics of their exploitation, assessment of environmental impacts.

3. Non-renewable resources:

Historical perspective of utilisation of non-renewable resources, origin and occurrence of mineral resources including problem of petroleum, environments of various important resources, strategies for exploration of various resources - geologic, geophysical and geochemical; forecasting of hazards in exploitation of these resources; strategies for optimal utilization of these resources for national economy: Conservation of resources. Geothermal energy - estimation of reserves; techniques and economics of their utilization - environmental impact assessment.

4. Exploration Techniques:

Methodology and strategy of exploration; basic principles and practices in gravity, magnetic, electric, electromagnetic and seismic methods; borehole logging; remote sensing and airborne surveys; marine surveys; radioactive methods; geochemical techniques.

5. Earth's processes:

Earth's radiation balance, soil temperature and moisture; physical properties of air; air temperature and humidity over earth's surface; flow over earth's surface (homogeneous, obstacle, ice, plant cover, forest, large lakes, valleys, city); modification of local weather, circulatory patterns in atmosphere.

6. Environmental hazards:

Thermodynamic principle, stability of an open system; conservation of mass, momentum and energy, constitutive relationships for solid and fluids;

energetics of environmental system; hazards from earthquakes, volcanoes, landslides, ground subsidence, avalanches, floods, tsunamis, thunderstorms, tornadoes, etc.; prediction, prevention, and control of these hazards.

7. Systems analysis:

Concept of a system, objective function, optimal policy analysis, gradient search method, linear programming, environmental modelling.

Principles of microeconomics and resource allocation, finance analysis.

Nature of Indian Society; basic planning approach, methodologies.

8. Elementary Data Processing:

Mathematical modelling, matrix algebra and analysis, special functions, Green's function.

Probability distribution - discreted continuous distributions, statistical inference, information theory, regression analysis, trend analysis, goodness of fit test, rudiments of filter theory and stochastic processes. Computer programming, calculus of finite differences, ordinary difference equations.

9. Advanced Data Processing:

Perturbational and variational techniques in environmental modelling; advanced communication theory and its application to applied geosciences - z-transform, sampling theorem, impulse response, convolution, deconvolution, adaptive filters, maximum entropy method... Optimisation - maximum principle, dynamic programming, non-linear programming; multivariate analysis, probability distributions, decision theory, information, point and interval estimation, goodness of fit tests, large scale systems - computer modelling; pattern recognition; computer softwares; application of all these techniques in various resource and environmental problems.

10. Suggested special paper (Any/one of the following)

1. Advanced Ore Geophysics
2. Advanced hydrology
3. Geochemical prospecting
4. Frontiers in Environmental Data Processing
5. Remote Sensing
6. Prediction of Earthquakes and volcanic eruptions
7. Mathematical modelling of natural hazards
8. Rock mechanics
9. Advanced climatology
10. Air-land-sea interactions
11. Land-use planning
12. Biogeochemistry

11. Dessertation/Project Work:

Application of techniques learnt in above courses.

12. Laboratory work and geodata processing exercises to complement the lecture material given in above papers.

Annexure 10SUMMARY OF THE FINANCIAL IMPLICATIONS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
1. Books & Journals(App. 1)	51.00	20.00
2. Equipment (App.2).....	92.50	55.00
3. Buildings (App.3).....	293.75	-
4. Campus Development(App.4)	48.00	-
5. Miscellaneous (App.5).....	39.35	11.50
	<hr/>	<hr/>
Total: (A)	524.60	86.50
	<hr/>	<hr/>
<u>P O S T S</u>		
6. Academic/Technical (App.6).....	50.52*	-
7. Non-teaching(App.7).....	2.80*	-
	<hr/>	<hr/>
Total: (B)	53.32	-
	<hr/>	<hr/>
8. Schemes already approved(Ann.6) (C)	171.00	-
9. Running Maintenance Expenditure (D)	35.00**	-
	<hr/>	<hr/>
Grand Total: (A+B+C+D) =	783.92	86.50
	<hr/>	<hr/>

* Estimated cost

** This includes lower categories of posts.

Total C + D = 206.00

Appendix - 1(1) BOOKS AND JOURNALS

	<u>I Pr.</u>	<u>II Pr.</u>
	<u>(Rupees in lakhs)</u>	
1. Mathematics Computer/Information Sciences	5.00	3.00
2. Env't. Geo Sciences	5.00	3.00
3. Physics	8.00	3.00
4. Chemistry	8.00	3.00
5. Life Sciences	8.00	3.00
6. Humanities	4.00	2.00
7. Creative Arts	1.00	1.00
8. Library Equipment	1.50	-
9. Library Stationary	1.00	-
10. Social Sciences	9.50	2.00
	<hr/>	<hr/>
Total:	51.00	20.00
	<hr/>	<hr/>

Appendix - 2(2) EQUIPMENT

	<u>M.Sc. & M.Phil.</u>		<u>Research</u>	
	<u>I</u>	<u>II</u>	<u>I</u>	<u>II</u>
	<u>(Rupees in lakhs)</u>			
1. Maths., Computer/Information Sciences	2.00	3.00		
2. Env't. Geo Sciences	4.00	3.00		
3. Physics	8.00	3.00		
4. Chemistry	8.00	3.00		
5. Life Sciences	8.00	3.00		
6. Major Research Equipment for all Science schools			50.00	40.00
7. Equipment for Central workshop including glass blowing	10.00	-		
8. Air-conditioning Animal House	2.50	-		
	<hr/>	<hr/>	<hr/>	<hr/>
Total:	42.50	15.00	50.00	40.00
	<hr/>	<hr/>	<hr/>	<hr/>

Appendix 3(₹.) BUILDINGS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
(a) <u>Academic buildings:</u>		
1. Instrumentation Centre including Air-conditioning	15.00	-
2. Buildings for Schools.	96.00	-
(b) <u>Residential Buildings:</u>		
1. <u>Staff Quarters</u>		
a. Professors & Readers	51.80	
b. Lecturers	13.50	
c. V.C.'s Residence	0.83	
d. Other categories - including class IV...	<u>9.70</u>	76.00
2. Teacher's Hostel	12.50	-
3. Hostel Complex	70.25*	-
4. <u>Other Buildings</u>		
a. Boundary wall	5.50	-
b. Administrative block	8.00	-
c. Guest house	5.50	-
d. Health Centre, Co-operative stores, etc.	5.00	-
	<hr/>	<hr/>
Total:	293.75	-
	<hr/>	<hr/>

* 750 Living rooms.....	66.00
Mess equipment and utensils, etc.	1.00
Living room furniture	2.50
com. room furniture...	0.75
	<hr/>
Total:	<u>70.25</u>

Rates of constructions- Academic Buildings @ Rs.50/- per sq.ft.
Other Buildings @ Rs.35/- per sq.ft.

(4.) CAMPUS DEVELOPMENT

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
1. Master Plan	1.50	-
2. Land-scaping, grading, Lay out and Horticulture	8.00	-
3. Roads, Paths, Culverts, drains.....	21.00	-
4. Sewage, Sewerage, Storm water disposal....	6.00	-
5. Water supply	8.00	-
6. Supply of Electricity.....	3.50	-
	<hr/>	<hr/>
Total:	48.00	-
	<hr/>	<hr/>

Appendix-5(5.) MISCELLANEOUS

	<u>1st Priority</u>	<u>2nd Priority</u>
	(Rupees in lakhs)	
1. Chemicals, Glassware, Solvents, Animals, Birds, other consumables.....	20.00	10.00
2. Scholarships..&.Fellowships.....	6.00**	-
3. Transport facilities.....	5.35	-
4. Furniture and Office equipment.....	2.50	1.50
5. P.B.X. Facilities.....	2.50	-
6. Seminars/workshops/visiting fellows/ Publications.....	2.50*	-
	<hr/>	<hr/>
Total:	39.35	11.50
	<hr/>	<hr/>

* Seminars/workshops - 1.00
 visiting fellows - 1.00
 Publications - 0.50
2.50

** 40 Junior research Fellowships outside the allocation

Appendix - 6

(a)

Academic staff recommended under first priority

S.No.	School/Centre	from 1977*			from 1978**		
		P	R	L	P	R	L
1.	Math.Compt.Infn.Scns.	4	10	6	-	-	-
2.	Envt. Geo Sciences	4	6	8	-	-	-
3.	Physics	5	10	8	-	-	-
4.	Chemistry	5	10	8	-	-	-
5.	Life Sciences	5	10	8	-	-	-
6.	English	2	4	7	-	-	-
7.	Philosophy	2	4	2	-	-	-
8.	Human Sciences	1	1	3	-	-	-
9.	Regional Studies	2	2	3	-	2	2
10.	Economics	1	2	2	2	4	4
11.	Sociology	2	1	-	-	2	3
12.	Pol. Science	1	1	-	1	2	3
13.	History	1	1	-	1	2	3
14.	Creative Arts	1 ⁺	-	1	-	-	-
15.	Unassigned	3	-	-	-	-	-
Totals:		39	62	56	4	12	15

* for a period of 18 months; ** for a period of one year;
+ or a Reader.

Rates:-

Estimated cost:-Rs. 47.19 lakhs.....(a)

Rs. 23,000 p.a. for "P", Rs.19,000/- p.a. for "R", and Rs.13,000/- p.a. for "L"

<u>Technical & Other Posts</u> <u>under first priority</u>		<u>Appendix 6(b)</u>
1.	S.T.A. for all Science Schools.....	10
2.	Administrative staff for all schools...	4
3.	Principal Scientific Officer (Instrumentation, Rs.1500-2000).....	1
4.	Scientific Officer(Instn.&workshop Rs.700-1300)...	1
5.	Librarian...	1
6.	Asst. Librarians	3
Total a + b = Rs.50.52 lakhs.		Estimated cost for all these posts for a period of 18 months is Rs.3.33 lakhs. (b)

Appendix - 7Non-teaching staff under first priority

<u>S.No.</u>	<u>Unit</u>	<u>Existing Posts</u>	<u>Posts recommended</u>
1	Registrar's Office	Registrar - 1 Asst. Reg.- 3 Supdt. - 1	Dy. Registrar - 1 Supdt. - 2
2	Finance Branch	Fin. Offr.- 1 A.F.O. - 1 Supdt. - 1	Dy.Fin. Officer-1 Supts. - 2
3	Internal Audit	-	Int.Auditor - 1
4	Engineering Dept.	Executive Engg.-1 Asst. Engg.(E) - 1	Supdt. Engg. - 1 Asst.Enggs. - 3 Supdt. (works)- 2
5	Other staff	-	Medical Officer-1 Director Physical Education - 1
6	Horticulture	Horticulturist - 1	Asst. Horticul- tufist - 1

Estimated cost for a period of 18 months : 2.80 lakhs.

Notes:- Revised pay scales for such posts in Central Universities have been taken for the purpose of determination of estimated cost.

Minutes of the meeting of the working group for regional studies held on May 15, 1975 at Hyderabad.

....

Members present:

Dr. B. Gopala Reddy
Dr. V.R. Narla
Prof. S. Gopal
Prof. K.V.R. Narasimham
Prof. K. Satchidananda Murty, Convener.

The Vice-Chancellor and the Officer on Special Duty of the Hyderabad University were also present.

1. A centre for Regional Studies may be established in the School of Social Sciences. Its objective should be promotion of studies and investigations in the literature, culture, art and architecture history, sociology, religions and economics of the Deccan and other parts of Andhra Pradesh, in an interrelated way. The studies and research in this centre should be (a) interdisciplinary and (b) give special attention to the modern period (of the last 200 years).

2. The courses and research in literature (whether Telugu or Urdu) in this Centre should be oriented towards the literary-critical and not the linguistic-philological. The study of any literature must be made, in the words of F.R. Leavis, a discipline of intelligence and sensibility instead of a discipline of scholarly industry and academic method. Leavis said Anglo-Saxon and History or Language are not necessary for a real understanding of modern English. Similarly, whatever is not necessary for a real understanding of modern Telugu or modern need not be taught in this Centre. A knowledge of a particular literature from the early period to the present day must be required of those specialising in it, but it must be such that it enables them to practise judgement, critical analysis and intelligent discussion both of literature and critical theory. In this connection the draft outline of the course in Telugu literature given by Prof. K.V.R. Narasimham (see Annexure 1) may be considered and adopted with substantial modification* in the light of the above suggestions. The research in this Centre in literature should also be in tune with this approach.

The courses and investigations in history in this centre should be oriented towards the socio-economic and not the

*e.g. deletion of Pre-Nannaya period; concentration on major literary figures avoiding the inclusion of all the lesser ones; study of how life and thought have and are influencing literature and how in turn literature has and is influencing them, and of the interaction between literature on the one hand and social, economic and political relatives on the other hand in every period and with reference to every literary figure.

dynastic-political, and the emphasis should be on the modern period; and those in economics should be relevant to the region and as far as possible capable of immediate application for the development of the region. In the case of other subjects also contemporary trends (e.g. in social organisations, religion), should receive greater attention.

3. The Centre should lay greater emphasis on research rather than on teaching. In this connection the themes and topics mentioned by Dr. V.R. Narla (see Annexure 2) may be considered as priority research areas.

4. The Centre should in the first instance start a post-M.A. course of an year's duration, viz., the M.Phil., say in 1976; and later, in 1977, an M.A. course.

5. The structure of the M.A. course in this Centre should be as follows:

I-Year - a common course in the history, culture, economics, sociology and literatures of the region - keeping in view the II year-Intensive special courses in one of the following: literature of the region (Telugu, Urdu); regional history, sociology of the region; regional economics; art and architecture of the region; culture and religions (modern developments) of the region; again keeping in view the suggestion in 1 and 2 above. Students specialising in any one of these fields should also take some courses in cognate fields; and students specialising in a regional literature should also take a course in another modern Indian literature. (E.G. Those specialising in Telugu shall take a course in Urdu, or Kanada, etc., and those specialising in Urdu in Telugu, or Kanada, etc.).

6. The M.A. Degree to be awarded in this Centre shall be determined by the candidates specialisation in the II year. Thus, for instance, a candidate who takes intensive special courses in regional history will be awarded M.A. in History and one who takes such courses in Telugu or regional sociology will be awarded M.A. in telugu or Sociology.

7. The following may be the staff pattern:

A. Three professors; of those two in modern (i) Telugu and (ii) Urdu literatures, and the third in any one of the following:

(iii) Modern art and architecture (iv) regional Sociology, (v) Socio-economic history, (vi) regional economics or (vii) Modern social philosophy. The professors in modern Telugu and Urdu literature should be persons qualified by their previous experience to organise studies and guide and undertake research on the lines suggested in 1 and 2 above. Similarly, the third professor in the Centre should be one who has studied his subject or conducted inquiries in it, with reference to the region in the modern period, and can organise studies and guide research on the lines suggested in 1 and 2 above.

-43-

B. Six Readers in the same seven subjects; the recruitment shall be so planned as to have a professor or a reader in every one of these subjects.

C. Nine lecturers in the same seven subjects.

D. Provision may be made for one or two other modern Indian literatures also, if resources permit. Thus courses in Kannada literature may be started in the first instance, and later in Marathi etc.

8. The maximum intake of students in the M.A. course should not exceed 25 in the first five years.

K. Satchidananda Murty
Convener.

114

Annexure-2

The Deccan area is a bridge between the North and South and its culture, geography and history have to be studied in detail. There has been no attempt in the past to study Modern Deccan History. The advent of the Dutch, the Portugese, the English, the French etc. have not yet been studied properly. A history of Machilipatnam is yet to be written. Much about the coming of the British and their impact may be known by this. The role of the Dutch and the French in Andhra, and their conflicts with the British have to be yet studied. The influence of European languages and literatures on Telugu Language and literature has to be studied. The cultural relations between Andhra and South East Asia and the mutual influence of Telugu and the languages of this area have to be studied. The impact of Maharashtra on Deccan, the migration of Andhra Farmers their economy, etc., have to be studied properly. There has been no research in the history of social reform in Andhra or of Telugu Journalism. All this should be done.

UNIVERSITY GRANTS COMMISSION

30

Meeting :

Dated : 21st Feb., 1977.

- Item No. 10 To consider report of the Visiting Committee appointed to review and assess the development proposals of the P.G. Courses in the colleges located in the District of Coimbatore - (i) Sri Ramakrishna Mission Vidyalaya Arts College, (ii) P.S.G.R. Krishnammal College for Women, (iii) Sri Vinashilingam Home Science College, (iv) P.S.G. Arts College, Coimbatore and (v) Government Arts College.
-

The Commission at its meeting held on 16th March, 1975, accepted the recommendations of the Committee appointed by the U.G.C. to finalise norms for the introduction of postgraduate course in the colleges and other related matters and accepted the recommendations regarding the norms for the introduction of postgraduate courses as given in Annexure-1. The Committee inter-alia observed that the norms should be applied to such departments which may be established in future and the existing colleges may be assisted to come upto these norms. It has also recommended that it could be desirable to carry out a survey of the existing postgraduate colleges in relation to these norms. However, in the case of postgraduate colleges affiliated to Madras University, the report of the survey of the existing postgraduate course in relation to these norms is still awaited from Madras University.

Pending the receipt of this report, the Commission decided to continue its programme of providing assistance to the affiliated colleges for improvement of existing facilities for postgraduate courses on a selective basis during the 5th plan. The development proposals were invited from the colleges in the prescribed proforma. The Colleges were also informed that the assistance from the U.G.C. during the 5th plan will primarily be for the strengthening of the faculty, improving the library and laboratory facilities and providing workshops and other similar facilities which will enable colleges to achieve and maintain proper standards. A copy of letter issued in this regard indicating the norms and sharing basis for providing assistance for the development of postgraduate departments is placed as Annexure-II.

The proposals received were to be examined with the help of a Visiting Committee. Accordingly, a Visiting Committee, consisting of the following members was appointed for the postgraduate colleges of Coimbatore and Tiruchirappally :

1. Prof. C. D. Narasimhaiah
Department of English
Mysore University
Mysore.

(31)

2. Prof. E.S. Rajagopal
Dean of Sciences
Indian Institute of Science
Bangalore.
3. Dr. K.T. Ramakrishna
Department of Economics
Kakatiya University
Warangal.
4. Dr. K.G. Aliyodi
Department of Zoology
Calicut University
Calicut.
5. Dr. N.R. Krishnaswamy
Department of Chemistry
Bangalore University
Bangalore.
6. Dr. Sp. Shanmuganathan
Principal
Pachaiyappa's College
Madras. (Representative of
Madras University)
7. Mrs. S. Ramamurthy
Assistant Secretary
University Grants Commission
New Delhi. (Secretary to the
Committee).

This Committee visited the postgraduate colleges of the Coimbatore District on 13th and 14th September, 1976.

There are six colleges offering postgraduate courses in Coimbatore District. The development proposals were received only from five colleges such as (1) P.S.G. Arts College, Coimbatore, (2) P.S.G.R. Krishnammal College for Women, Coimbatore, (3) Sri Vinashilingam Home Science College for Women, Coimbatore, (4) Sri Ramakrishna Mission Vidyalaya Arts College, Coimbatore and (5) Government Arts College, Coimbatore.

The main observations and recommendations of the Committee are quoted below :

1. "The Committee feels that, while it is desirable that postgraduate teachers should be in touch with undergraduate work, the work must not be such as to drain their energy, especially in view of the introduction of the semester scheme at the postgraduate level under which the responsibility of the teachers has increased quantitatively as well as qualitatively. Unless their undergraduate work is marginal the teachers are unlikely to find any time for their own reading, reflection and even a modicum of research.
2. There is need for immediate appointment of teachers with research qualifications in the colleges which have postgraduate departments.

P.T.O.

3. The existing staff should be given facilities on a war-footing, as it were, to acquire the first research degree of M.Phil. in the first instance as stimulus for further intelligent, independent investigation. The Committee realises there are not enough guides in University Departments themselves to handle this enormous problem. Meanwhile, therefore, the Commission may consider recommending to the universities that they insist on annual publication of one or two papers even of a rudimentary research level from every postgraduate teacher in addition to participation in seminars, workshops, and summer institutes which a cluster of colleges in the same region may organise periodically with University and University Grants Commission assistance, resulting in detailed reports and critical assessments from the participants as a first step in the direction of research. Such a step would make the teachers research minded and give them the necessary confidence to begin their research activities without waiting indefinitely for registration for degrees.
4. What needs to be done urgently is to provide incentives for colleges with postgraduate departments to invite specialists within the region to visit them and make it obligatory for all teachers in the discipline concerned from different institutions to take advantage of such lectures and use the opportunity to make personal contacts with the visiting specialists with a view to furthering their research interests. It is here that retired university teachers of standing can perhaps be best used as they have obviously more time to give instead of using them as in the present practice, for routine lecturing in university and postgraduate centres.
5. Teachers are not ordinarily deputed by colleges to acquire research degrees as it entails expenditure which they can hardly afford. Instead, therefore, of offering to pay the emoluments of substitutes, the Commission may consider paying the salaries of permanent employees from the date the substitutes are appointed in the colleges.
6. The Committee also notes that many teachers are trying to do the Ph.D. or M.Phil. in their own colleges on a part-time basis. Such inbreeding is hardly likely to improve their calibre or usefulness even if they acquire additional degrees. An unfortunate impression has gained currency among institutions and individual teachers that acquiring research degrees is all that matters while it is but earnest of a mind that is alive. But the mind must be kept, as it were in constant repair. It is with this end in view that the Committee has recommended that the Commission insist on annual publication of articles, reviews and critical reports of participation in workshops, seminars and conferences".

Other observations in respect of each college are as given below:

1. The P.S.G.R. Krishnammal College for Women and P.S.G. Arts College are younger colleges but the Committee was very much impressed by the layout, buildings, library, laboratory, their general maintenance, organisation and all-round performance. A large number of students in these colleges receiving pre-university and undergraduate instruction, far from interfering with postgraduate work seemed, for the present at least, to be a welcome feature of these institutions.
2. The Committee reacted favourably to Sri Ram Krishna Mission Vidyalaya Arts College and Avinashilingam Home Science College for furthering the high educational objectives with which they were founded. Sri Avinashilingam Home Science College offers instructions from nursery to postgraduate courses and these various levels seem to have integrated themselves homogeniously giving a particular advantage in as much as they help in the successful demonstration of educational theories and experiments.
3. While the Committee sympathised with the authorities of Sri Avinashilingam Home Science College for grants to six specialised courses in Home Science as independent departments, it could not consider them so. However, as a special case and in appreciation of the good work they have done in community extension programme, an adhoc grant of Rs. one lakh in addition to the normal grant is recommended to the postgraduate Home Science Department as a whole in the college.
4. The Government Arts College, has as many as 7 postgraduate departments and seemed in need of additional buildings, books, periodicals, equipments, but nothing is more important or urgent than attention to the improvement of faculty. As a Government institution it is subject to periodical transfers of its teachers though the periodicity may vary. But to transfer them one for one basis may seriously affect the quality of postgraduate instruction which calls for specialisation. In addition, to acquiring teachers with research qualifications the Committee recommends that a considerable number of promising younger teachers should, as a first step, be encouraged to acquire the first research degree of M.Phil. while senior teachers with research degrees should be given facilities to pursue higher research and publication on their own. While the Committee recommends grants, it strongly feels that the college be advised to send proposals to the U.G.C. in accordance with the proscribed procedures through the Madras University.

The financial implications of the recommendations college-wise are summarised below : (Details are given in annexure III.)

Name of the College	Spill-over	Committee's recommendations	Basic grant approved	Balance to be approved.
	Rs.	Rs.	Rs.	Rs.
Sri Ramakrishna Mission Vidyalaya, Coimbatore.	-	2,95,000	20,000	2,75,000 (NR)
P. S. G. R. Krishnammal College for Women	-	70,000	-	70,000 (NR)
Additional Staff:				
Reader ... 1				Reader-1(R)
Sri Avinashilingam Home Science College for Women, Coimbatore.	7,014	3,77,500	30,000	3,47,500 (NR)
P. S. G. Arts College Coimbatore	45,167	7,14,000	60,000	6,54,000 (NR)
(Professors ... 3 including a field supervisor) in the college scale of Rs. 800-1250.				
				Prof.-3(R)
Government Arts College, Coimbatore	-	7,48,000	-	7,48,000 (NR)
Additional Staff:				
Reader ... 1				Reader-1(R)

The detailed reports of the Committee for 5 colleges are given in Annexure-IV.

The recommendations of the Committee are placed before the Commission for consideration.

A.S(D)/D.S(DI).

Conditions and Norms common to Humanities and Social Sciences & Sciences for introduction of Post-graduate courses in Colleges.

35

1. A college may be allowed to start postgraduate course in a subject only when there is persistent demand for teaching in that subject and enrolment of a Minimum number of students every year is ensured. Opening of a new post-graduate class should be invariably linked with the manpower needs of the region. The College must be permanently affiliated and should have shown consistently good results at the undergraduate level during the last five years.
2. The college may be considered for further assistance only if.
 - a) Available facilities in the shape of library, laboratory equipment and faculty reflect the commitment of the department and the college to the development of particular subject. The commitment of the college would in particular be seen from its overall recruitment policy e.g. whether it has the practice of appointing only people of consistently good academic record and Ph.D's as far as possible.
 - b) It serves the needs of the students community coming from the undergraduate colleges of the region as reflected in enrolment.
 - c) The department has the scope and potentiality for development of a specialisation in a particular area not available in the other colleges and universities of the region.
 - d) There is a clear out programme of research and training to ensure quality at the initial stage of starting department.
 - e) A.C.B. has faculty comparable in quality to that of a University department and demonstrates potential of growth and specialisation
3. Post-graduate courses need not necessarily be started only in such subjects which are taught at the degree level in the affiliated colleges. Inter-departmental/inter-disciplinary courses may be preferred.
4. The college should make provision of funds for enabling department teachers to attend National Conferences in their subjects every year.
5. The condition for opening post-graduate department in the college as prescribed by the university may be insisted upon specially with regard to the staff, books and equipment before providing any further support for the development of the department.
6. Annual colloquiums may be organised for the benefit of the college teachers and the students in which university and college teachers should participate.

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P.T.O

(36)

Conditions and norms for introduction of Post-graduate courses in Humanities and Social Sciences in Colleges.

1. A minimum of four teachers recognised by the University as post-graduate teachers (see paragraph 2 below) be appointed at the initial stage. i.e. staff may be increased gradually depending upon the increase in the hours of work and the introduction of the special papers. In a post-graduate department there should be at least four teachers with M.Phil or equivalent degree or research work, of whom there should be at least two teachers with Ph.D. degree or equivalent research work.
2. For effective post-graduate teaching, the first pre-requisite is the quality of teachers. It is imperative that teachers at this stage should have developed critical faculties of evaluating the major developments in their subject. For this purpose it should be laid down that only those persons would be recognised for post-graduate teaching who have some papers to their credit in standard research journals. In addition:
 - a) They should be required to go through and pass a post-Master's degree/diploma in Research Methodology.
 - b) In order that a post-graduate teacher may be able to specialise and carry out advanced studies/research he should not be expected to take more than two papers in two years.
 - c) The teachers should have enough time to keep themselves abreast with the latest development in their subjects. For this purpose, it may be laid down that the work load of a recognised teacher should not be more than 12 lectures a week.
3. A college department should have adequate material and other equipment. The departmental library should have enough copies of recommended books and at least three standard journals published during the last 10 years. For books and journals the college should provide per department Rs. 15,000/- as non-recurring and Rs. 5,000/- p.a. as recurring.
4. The college should provide a fixed amount every year, not less than Rs. 5,000/- for development of research activities in the department.
5. As far as possible at least two papers out of 8 papers should be different from those taught at the University.

Conditions and general norms for introduction of
Post-graduate course in Science subjects in Colleges.

37

Strengthening of the teaching staff and recruitment of suitably qualified persons is the most important factor required for post-graduate Education besides availability of necessary laboratory, library and other facilities. A department seeking affiliation for starting/running post-graduate classes should have at least six teachers with Post-M.Sc. qualifications, such as M.Phil. or research experience as evidenced by publications. Further at least three such teachers should have a Ph.D. degree or research publications of equivalent standard. It will also be essential for such departments to have at least one viable research programme undertaken by the staff members. Similarly, before any particular specialisation in the subject can be offered as special paper at the M.A./M.Sc.- level there should be on the staff of the department at least two persons who are qualified in that special discipline. The total strength of the staff of such departments would, however, depend upon the total work-load including under-graduate instruction.

Generally an intake of 15 students should be considered as an optimum size of a unit of post-graduate class. No post-graduate classes should be permitted to be started if the intake is less than ten students with 50% or more marks in the subject concerned. For purposes of increasing admissions also the unit of 10-15 should be taken into account.

-.-.-.-

University Grants Commission
Bahadur Shah Zafar Marg
New Delhi.

Annexure II to Item No. 10

SECRETARY

D.O. No.F.7-1/74(P/CP)

29 August 1975. (38)

Dear Registrar/Principal:

The University Grants Commission has decided to continue its programme of providing assistance to affiliated colleges for improvement of facilities for postgraduate courses on a selective basis, during the Fifth Five Year Plan. Accordingly, the Commission has finalised programme etc. for preparation of development proposals by colleges. I enclose a copy (Appendix) thereof, so that the college may prepare and send its development proposals for the plan period 1974-79 in accordance with these guidelines.

The assistance from the University Grants Commission for development of colleges during the Fifth Plan period will primarily be for strengthening the faculty, for improving the library and laboratory facilities and for providing workshop and other similar facilities which will enable colleges to achieve and maintain proper standards. In this connection, the norms prescribed for different postgraduate courses as notified vide this office letter No.F.9-1/74(D-4) dated April 1975 may be kept in view.

The purposes for which assistance would be available, the extent and pattern of assistance are indicated below:-

PURPOSES :

- i. building upto 25% of the total grant
- ii. equipment upto 20% of the total grant
- iii. books upto 20% of the total grant
- iv. additional staff upto 27% of the total grant
(including 10% for faculty improvement)
- v. miscellaneous items - 3% of the total grant.

Ceiling of Assistance per college
in the Plan period

UGC's share

a. Humanities and Social Sciences.
All Postgraduate Departments in
the Humanities and Social Sciences
in affiliated colleges.

Upto Rs.1 Lakh per
department.

b. Postgraduate Science Department.

1. Physics & Chemistry Departments

Upto Rs.2 lakhs per
Department.

2. Botany, Zoology, Geology, Bio-chemistry
and Home Science Departments.

Upto Rs.1.50 lakh per
Department.

3. Anthropology, Geography and
Mathematics including
Statistics Department

Upto Rs.1 lakh per
Department.

p.to.

29

3. Sharing basis

<u>Building</u>	<u>UGC's share</u>	<u>University/State Government/College</u>
(Teaching and Laboratory, Library)	50%	50%
Equipment and books	100%	Nil
Workshop including shed	100%	Nil
Animal House facility	100%	Nil
<u>Additional Staff</u>		
Reader *	100%	Nil
Lecturer	75%	25%
Technical Staff	100%	Nil

* when sanctioned by the Commission.

Assistance for additional staff would be available on the undertaking that colleges would continue and maintain such posts from their own funds, when Commission's assistance ceases at the end of 1978-79. A specific programme of faculty improvement would be drawn up by the College as a priority item to enable it to come up to the norms suggested by the Commission.

4. As you are aware, Commission's assistance is not available for starting new courses or for fulfilling any of the conditions of affiliation. It is also not available for purchase or acquisition of land or for purchase or acquisition of existing buildings or for renovation, dismantling and repairs of existing structures. It will also not be available for maintenance items as also for purchase of routine chemicals and glass-ware.

The assistance for postgraduate departments will be available only for such departments which have provided facilities for postgraduate studies for at least two years and are in a position to supply the results of the first batch of students, from the college, in the university examination.

The College may prepare composite proposals for the development of Postgraduate studies in the departments which would be examined with the help of a Visiting Committee appointed by the Commission before such proposals are accepted for assistance.

Five copies of the consolidated proposals should be sent by Colleges through the Universities to which they are affiliated, to the UGC office as early as possible. A copy of the proposals may also be forwarded to the State Government (in the proforma prescribed for each purpose).

Yours sincerely,
sd/-
(RK Chhabra)

To: Principals, All Non-Professional Post-Graduate Colleges included under Section 2(f) of the UGC Act and Registrars of all Universities other than Agricultural/ Ayurvedic Unitary.

Financial implication of recommendations of the Committee appointed for the Postgraduate Colleges of Tiruchirapalli and Coimbatore.

(170)

1. Sri Ramakrishna Mission Vidyalaya Arts College, Coimbatore.

Name of the Department & purpose	Spill-over Rs.	Committee's recommendations Rs.	Basic grant approved Rs.	Balance to be approved Rs.	
<u>Physics Department :</u>					
1. Building (UGC share)	-	50,000	-	50,000	
2. Workshop equipment	-	25,000	-	25,000	
3. Laboratory equipment	-	50,000	10,000	40,000	
4. Library books	-	30,000	5,000	25,000	
5. Faculty Improvement Programme	-	30,000	-	30,000	
6. Guest Lecturers/ Visiting Fellow	-	15,000	-	15,000	
Total :	-	2,00,000	15,000	1,85,000	(NR)
<u>Mathematics Department :</u>					
1. Equipment	-	20,000	-	20,000	
2. Books	-	35,000	5,000	30,000	
3. Faculty Improvement Programme	-	25,000	-	25,000	
4. Guest Lecturers	-	15,000	-	15,000	
Total	-	95,000	5,000	90,000	(NR)
G. Total		2,95,000	20,000	2,75,000	

p.t.o.

(41)

(2) PSGR Krishnammal College for Women,
Coimbatore:

Name of the Department and purpose	Spill-over	Committee's recommendations	Basic grant approved	Balance to be approved
	Rs.	Rs.	Rs.	Rs.
<u>Department of English :</u>				
1. Books and journals including back volumes.	-	30,000	-	30,000
2. Faculty Improvement Programme	-	20,000	-	20,000
3. Equipment	-	10,000	-	10,000
4. Miscellaneous Guest Lecturers/ Visiting Fellowships.	-	10,000	-	10,000
Total	-	70,000	-	70,000 (NR)

Additional
Reader .. 1

Reader-1 (R)

(3) Avinashilingam Home Science College for Women, Coimbatore :

(12)

Name of the Department and purpose	Spill-over	Committees's recommendations	Basic grant approved	Balance to be approved
	Rs.	Rs.	Rs.	Rs.
<u>Department of Home Science :</u>				
1. Construction of food testing laboratory (UGC share).	-	24,500	-	24,500
2. Equipment	2,000	31,000	10,000	21,000
3. Books and Journals	-	31,000	5,000	25,000
4. Visiting appointments/guest lecturer etc.	-	10,000	-	10,000
5. Faculty Improvement Programme	-	33,000	-	33,000
6. Special recommendations towards F.I.P (Home Science)	-	1,00,000	-	1,00,000
7. Additional staff	3,700	-	-	-
Total	5,700	2,29,500	15,000	2,14,500 (NR)
<u>Department of Biochemistry :</u>				
1. Extension of laboratory for tracer studies	-	37,500	-	37,500
2. Equipment		38,000	10,000	28,000
3. Books and Journals	232	40,000	5,000	35,000
4. FIP/Visiting Lecturers.	82	32,500	-	32,500
5. Additional staff	1,000	-	-	-
Total :	1,314	1,48,000	15,000	1,33,000 (NR)
G. Total	7,014	3,77,500	30,000	3,47,000 (NR)

43

(4) P.S.G. Arts College, Coimbatore:

Name of the Department and purpose	Spill-over	Committee's recommendations	Basic grant approved	Balance to be approved
	Rs.	Rs.	Rs.	Rs.

Department of Economics:

1. Equipment	-	10,000	-	10,000
2. Books and journals	-	50,000	10,000	40,000
3. Miscellaneous - F.I.P./Guest Lecturers	-	8,000	-	8,000
4. Additional Staff:				
Professor - 1 (in the college scale of Rs.800-12 50)	-	-	-	-
Total:	-	68,000	10,000	58,000 (N.R.)
				Prof. - 1 (R)

Department of Commerce:

. Building (extension of teaching accommodation)	-	25,000	-	25,000
. Books and Journals	-	25,000	-	25,000
. Miscellaneous - F.I.P./Guest Lecturers	-	5,000	-	5,000
. Additional Staff:				
Professor - 1 (in the college scale of Rs.800-1250)	-	-	-	-
Total:	-	55,000	-	55,000 (N.R.)
				Prof. 1 (R)

p.t.o.

1	2	3	4	5
<u>Department of Tamil:</u>				
Buildings (P.G. Block)	45,167	-	-	-
Books & Journals	-	25,000	10,000	15,000
Miscellaneous - F.I.P./Guest Lecturers	- -	8,000	-	8,000
TOTAL:	<u>45,167</u>	<u>33,000</u>	<u>10,000</u>	<u>23,000 (N.R.)</u>

Department of Social Work:

Equipment (Jeep for field work)	-	20,000	-	20,000
Books and Journals	-	45,000	-	45,000
Miscellaneous - F.I.P./Guest Lecturers	-	18,000	-	18,000
Additional Staff:	-		-	
Field Supervisor - 1 (in the Professor scale of Rs.800-1250)				
TOTAL:	<u>-</u>	<u>83,000</u>	<u>-</u>	<u>83,000 (NR)</u>

Field Supervisor - 1 (R)

Department of Mathematics & Statistics

1. Extension of laboratory building	-	25,000 (UGC Share)	-	25,000
2. Equipment	-	20,000	10,000	10,000
3. Library books	- -	25,000	3,000	22,000
4. Miscellaneous - F.I.P./Guest Lecturers	-	25,000	-	25,000
TOTAL:	<u>-</u>	<u>95,000</u>	<u>13,000</u>	<u>82,000 (NR)</u>

p.t.o.

(45)

1	2	3	4	5
<u>Department of Physics</u>				
1. Extension of laboratory building	-	50,000 (UGC share)	-	50,000
2. Laboratory equipment	-	60,000	10,000	50,000
3. Library books	-	50,000	4,000	46,000
4. Miscellaneous - F.I.P./Guest Lecturers	-	30,000	-	30,000
TOTAL	-	1,90,000	14,000	1,76,000 (NR)
<u>Department of Chemistry</u>				
1. Extension of laboratory building	-	50,000 (UGC share)	-	50,000
2. Equipment	-	70,000	10,000	60,000
3. Library books	-	50,000	3,000	47,000
4. Miscellaneous F.I.P./Guest Lecturers	-	20,000	-	20,000
TOTAL	-	1,90,000	13,000	1,77,000 (NR)
Grand Total:	45,167	7,14,000	60,000	6,54,000 (NR)

Prof. 3 (R)
(in the college scale)

(5) Government Arts College, Coimbatore

Name of the Department	Spill-over	Grant recommended during the 5th Plan
	Rs.	Rs.
1	2	3

Department of Commerce:

Books and Journals	-	50,000
Equipment (calculator etc)	-	5,000
Miscellaneous - F.I.P./Guest Lecturers	-	8,000

Additional Staff:

Reader 1
(in the UGC scale)

TOTAL:

63,000 (N.R.)

Department of Chemistry

1. Scientific equipment	-	50,000
2. Books and Journals including back numbers	-	40,000
3. Miscellaneous - F.I.P./Guest lecturers	-	10,000
4. Workshop (shed and equipment) including glass blowing	-	1,00,000

Total:

2,00,000 (NR.)

Department of Zoology

1. Animal house	-	25,000
2. Scientific equipment	-	25,000
3. Books and journals including back numbers)	-	90,000
4. Miscellaneous - F.I.P./Guest Lecturers	-	10,000

Total:

1,50,000 (N.R.)

47

<u>Name of the Department and Purpose</u>	<u>Spill-over</u>	<u>Grant recommended during the 5th Plan</u>
	Rs.	Rs.
<u>4. Department of Mathematics:</u>		
1. Equipment	-	25,000
2. Books and journals (including back number)	-	65,000
3. Miscellaneous - F.I.P./Guest Lecturers.	-	10,000
	Total -	<u>1,00,000 (N.R.)</u>
<u>5. Department of Botany</u>		
1. Herbarium	-	25,000
2. Books and journals (including back numbers)	-	75,000
3. Equipment	-	40,000
4. Miscellaneous - F.I.P./Guest Lecturers	-	10,000
	Total	<u>1,50,000 (N.R.)</u>
<u>6. Department of English:</u>		
1. Library books	-	50,000
2. Back volumes of journals including current periodicals.	-	25,000
3. Miscellaneous - F.I.P./Guest Lecturers.	-	10,000
	Total -	<u>85,000 (N.R.)</u>
	Grand Total	7,48,000 (N.R.)
		Reader 1. (R)

UNIVERSITY GRANTS COMMISSION

Report of the Visiting Committee appointed for assessing the development proposals of the post-graduate Departments of the colleges located in Tiruchirapalli and Coimbatore.

Sri Ramakrishna Mission Vidyalaya Arts College ,
Coimbatore.

The Committee constituted by the ~~University Grants Commission~~ to review the development of postgraduate Departments and assess the 5th plan development proposals of the post graduate Departments of the colleges affiliated to Madras University, in the Districts of Coimbatore and Tiruchirapalli, visited Sri Ramakrishna Mission Vidyalaya Arts college, Coimbatore on the 13th September, 1976. It consisted of the following members:-

1. Prof.C.D.Narasimhaiah,
Department of English,
Mysore University,
Mysore.
2. Prof. T.S.Rajagopal ,
Dean of Sciences,
Indian Institute of Science,
Bangalore.
3. Dr.K.T.Ramakrishna,
Department of Economics,
Kakatyia University,
Warangal.
4. Dr. K.G.Adiyodi,
Department of Zoology,
Calicut University.
5. Dr.N.R.Krishnaswamy,
Department of Chemistry,
Bangalore University,
Bangalore.
6. Dr. Sp.Shanmuganathan, (Representatives of Madras
Principal, University)
Pachaiappa's College,
Madras.
7. Mrs. S.Ramamurthy, (Secretary to the
Assistant Secretary, Committee)
University Grants Commission,
New Delhi.

The committee held discussions with the Principal and representative of the Managing body and college Advisory Committee, Heads of the Departments and examined the various Physical facilities available in the college for running post graduate courses.

Established in 1964 , Sri Ramakrishna Mission Vidyalaya Arts college is located 18 miles away from Coimbatore City. It is a men's college affiliated to Madras University, managed by a private body. It forms a part of a 300 acre campus in which other educational institutions such as Teacher Training college, Polytechnique Model High School, Primary school and nursery school are situated..

The courses conducted by the College and nature of and year of their affiliation , are as given below:-

Sr. No.	Courses Subject-wise	Year in which the course was affiliated (started)	Nature of affiliation
1.	P.J.C.Humanities P.J.C.Science	1964-65 1964-65	permanent -do-
2.	B.A. History B.A. Co-operation	1968-69 1973-74	-do- -do-
3.	B.Sc.Mathematics B.Sc. Physics B.Sc. Chemistry(Anc.Paths. & Physics) B.Sc. Chemistry(Anc.Physics & Botany)	1968-69 1968-69 1969-70 1970-71	-do- -do- -do- -do-
4.	B.Com	1971-72	Provisional
5.	M.Sc. Mathematics M.Sc. Physics	1971-72 1971-72	-do- -do-
6.	M.A. Social Work	1975-76	-do-
7.	B.A. Corporate Secretaryship	1975-76	-do-

Physical facilities:-

It was noted that Sri Ramakrishna Vidyalaya is situated amidst 300 acres of land out of which 10 acres are utilised for the construction of Sri Ramakrishna Vidyalaya Arts College Building, 5 acres for the construction of residential quarters for staff, 10 acres for the

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construction of 4 hostels and 30 acres are ear-marked for play-fields. There are 25 class rooms, 17 staff rooms, 5 common rooms and 13 laboratories with an area of 2868 sq. ft. for PUC, B.Sc., M.Sc. courses. The library has a total floor area of 3274 sq. ft. The area of the reading room is 1999 sq. ft. in which 84 reading seats are provided. The area of the stack rooms is 1275 sq. ft. The total number of books in the library is 42,501. The college issues an average of 350 books per week to students and teachers. open shelf system is followed for P.G. Classes.

The college subscribes for 78 journals on different subjects.

Enrolment & Teachers:-

It was noted that the college has a total strength of 800 students and 52 staff members, 530 students reside in the hostels and 292 students attend as day scholars from the neighbouring areas. The staff and student ratio works out to 1:16.

The average work-load per week per teacher is as given below :-

1. Formal Lectures 12/14 hours of lecture work for staff in science and humanities department respectively.
2. Tutorials/Seminars. 1 hour.
3. Practical work, if any 4 hours for science department staff.
4. Other duties 2 hours.

The enrolment of the college during 1975-76 for undergraduate and post-graduate courses is as given below:-

Year	B.A.			B.Sc.			M.Sc.			
	Co-op	Hist-ory	Corp-ship	Maths	Phy-sics	Chem-istry	B.Com.	M.A. soci-al work	Math-ics	Phys-ics
I-yr.	35	-	7	38	-	39	66	24	13	7
II-yr.	28	-	-	24	-	31	48	-	11	9
III-Yr.	24	39	-	34	23	33	70	-	-	-

....4....

Development activities of the college:-

The Committee was informed that the college is planning to develop a research Department to carry on research that will be useful to the students as well as to the community around. However, it faces difficulties owing to the inadequacy of trained staff. It also plans to develop an extension department which will do community service in the villages around the college and involve the students in projects like functional literacy programmes, health education, co-operative education, leadership education, organising work camps to lay roads, building class rooms or lunch rooms for schools, etc. and also programme to start a rural community development centre in the college with the help of the students and staff of the M.A. Social work with community development work as elective subject.

The Committee noted that college has an NCC unit with 100 cadets and a Unit of National Service Corps with 60 students. The programme of NSS include organising camps developing lay-grounds, building lunch rooms for village schools etc. The programme of social service league include organising camps in villages, building class rooms for the village school, laying approach roads, and conducting educational survey of the villages. The college has student union, athletic association, Tamil Association and various other associations. These associations organise meetings Seminars, and Symposia and encourage students to participate in them and has organised health service activities in the neighbouring villages.

There are four hostels run on a co-operative basis accommodating 530 students.

Post-graduate Departments:-

It was observed that the college conducts Master's Degree Courses in Physics/English and Social work. There is semester system for post-graduate courses in Physics and Mathematics. The college has spent an amount of Rs.1,28,923/- towards the purchase of Laboratory equipment during the period from 1972-73 to 1974-75 (3 years) and Rs.40,356.05 towards purchase of books and journals.

The Committee was informed that the college has taken active steps towards the faculty improvement programme.

This college was not assisted during the 4th plan under the scheme of development of postgraduate departments.

Department of Physics:-

M.Sc. Course in Physics was introduced in the year 1971-72. There are 10 students for the postgraduate

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course in Physics with six teachers , out of whom two (one professor and one lecturer) are Ph.Ds. During 1975-76 9 students appeared for M.Sc. in Physics out of whom 3 passed securing first class and 6 securing second class Its students have been securing 100% pass for the last three years for this course.

This department has a well equipped laboratory for and intake of 8 students per year. Semester system has been introduced for M.Sc. Physics from the year 1975-76 and the syllabus has been updated and increased in deptt. workshop practice has also been made a requirement. The Library needs to be further strengthened . The college has requested for a grant of Rs.60,000/- for the purchase of equipment and Rs.40,000/- for the purchase of books and a grant of Rs.20,000/- for faculty improvement programme including assistance in organising seminars. Since the college desires to increase the intake of students from 8 to 12 per annum, it also desires to have an additional floor to the present M.Sc. block to provide additional laboratory space and class rooms. The estimated cost of the construction is Rs.one lakh. It further desires to have a workshop at total cost of Rs.26,385/-. A total area of 14,572 sq. ft. , is provided for laboratories of which 5,744 sq.ft. is in physics Laboratory including P.U.C. and B.Sc. Physics Laboratory,

Observations and recommendations:-

The Committee examined the Physical facilities available and discussed with the head of the department their proposals for development during the fifth plan. The committee observed that the Department of Physics, though young had produced good results. However, the present building is quite over-crowded and inadequate especially for the laboratory classes. Therefore, the Committee recommends a contribution from the JGC towards the extension to the Physics building . There is the need for augmenting the physics Workshop facilities , which is also recommended. Further to avoid the isolation of the college from the mainstream of academic activity, a programme of Guest Lectures and Faculty improvement programme is recommended. The consolidated financial implications of the recommendations are as given below:-

	1. Building (JGC share)	.....	Rs.50,000
	2. Workshop equipment	.....	Rs.25,000
	3. Laboratory equipment	.....	Rs.50,000
uding	4. Books and Journals/back volumes.	Rs.	30,000
	5. Faculty improvement programme...	Rs.	30,000
	6. Guest lectures/Visiting fellowships	Rs.	15,000

Total : Rs.2,00,000

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Department of Mathematics:-

The committee noted that in the Department of Mathematics M.Sc. degree course was started in 1971-72 with an intake capacity of 12 students per year. So far four sets of students have completed their M.Sc. From 1972-73 to 1974-75 a total of 21 students appeared for M.Sc. in Mathematics out of whom 4 secured first class and 3 second class. This course has been brought under the semester system and the syllabus has been updated. So there is need to equip the library with latest books and back numbers of journals.

There are 24 students for M.Sc. in Mathematics with a total teaching staff strength of nine out of whom one is Ph.D. degree holder.

In order to give practical experience to the students in statistics, the college has proposed to get electronic calculators and a typewriter with mathematical symbols. It has proposed to buy an astronomical telescope to teach concepts in Astronomy in a more meaningful way.

Under the faculty improvement programme, the college has sponsored one staff member to Ramanujan Institute of Mathematics for studying M.Phil. during the year 1976-77. It also proposes to depute other staff members for doing research leading to Ph.D. for a period of two years and one member for studying M.Phil. during 1977-78 and 1978-79. It proposes to organise seminars etc. to increase the academic depth of staff members.

Observations and Recommendations:-

The committee noted that the Department of Mathematics has been doing good work and has also one or two members of the staff with research experience. However, it felt that there is a need to get a few electronic calculators and allied equipment. The Committee likes the Department to consider biasing the students to problems of applied mathematics including computer methods, where considerable employment opportunities seem to exist. Towards this end, the following recommendations are made:-

- | | | | |
|----|---|-------|-----------|
| 1. | Books & journals including
back volumes. | | Rs.35,000 |
| 2. | Equipment | ..... | Rs.20,000 |
| 3. | Faculty improvement programme | | Rs.25,000 |
| 4. | Guest lecture | | Rs.15,000 |

Total : Rs.95,000

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Social Work:-

The Department of Social Work has 24 students with a total teaching staff strength of 4. Since this department has been started only during the year 1975-76 it does not qualify for assistance from the UGC at this stage.

General Observations:-

The committee reacted favourably to Sri Ramakrishna Mission Vidyalaya Arts College for furthering the higher education objectives with which they were found. It noted that the college has only 3 post-graduate departments out of which two (Physics and Mathematics) presently qualify themselves for the grants.

Keeping in view the recommendations of the post-graduate Committee appointed by the University Grants Commission that the existing colleges may be assisted to come upto the norms and they should not be disqualified if the existing facilities in the colleges are less than the recommended norms, the Committee recommended that the college may be assisted for the improvement of the existing facilities to come up to norms prescribed by the University Grants Commission.

Acknowledgements:-

The Committee records its gratefulness to the Principal, Heads of the Departments and other authorities of the college for the co-operation extended to it during its visit to the college.

Sd/-

1. C.D.Narasimhaiah
2. E.S.Rajagopal
3. K.T.Ramakrishna
4. K.G.Adiyodi
5. N.R.Krishnaswamy
6. Sp.Shanmuganthan
7. S.Ramamurthy.

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UNIVERSITY GRANTS COMMISSION

Report of the Visiting Committee appointed for assessing the development proposals of the Postgraduate Departments of the Colleges located in Tiruchirapalli and Coimbatore.

P.S.G.R.Krishnamal College for Women, Coimbatore.

The Committee constituted ~~by the University Grants Commission~~ to review the development of Postgraduate Departments and assess the 5th Plan development proposals of the Postgraduate departments of the colleges affiliated to Madras University, in the districts of Coimbatore and Tiruchirapalli, visited P.S.G.R. Krishnamal College for Women, Coimbatore on 13th September, 1976. It consisted of the following members:-

1. Prof.C.D.Narasimhaiah,
Department of English,
Mysore University,
Mysore.
2. Prof. E.S.Rajagopal,
Dean of Sciences,
Indian Institute of Science,
Bangalore.
3. Dr.K.T.Ramakrishna,
Department of Economics,
Kakatyia University,
Warangal.
4. Dr.K.G.Adiyodi,
Department of Zoology,
Calicut University.
5. Dr.N.R.Krishnaswamy,
Department of Chemistry,
Bangalore University,
Bangalore.
6. Dr.Sp.Shanmuganathan, (Representative of the
Principal, Madras University.)
Pachaiyappa's College,
Madras.
7. Mrs.S.Ramamurthy, (Secretary to the Committee)
Assistant Secretary,
University Grants Commission,
New Delhi.

The Committee held discussions with the Principal, Head of the Departments and the Correspondent of the College.

The college, established in 1933 and permanently affiliated to Madras University is managed by a private

body(G.R.G.& Sons Trust) With the help of a Governing body. It is situated in a rural area with the P.G.G.P. Krishnamal High School in a two storeyed building with well-equipped library and laboratory. It has an extensive play-ground. There are two girls'Hostels for the students and a special hostel built for teachers.

In 1964, the college was upgraded to a first-grade College offering three-year degree courses for B.A. The courses conducted and the year of affiliation, are as given below:-

Pre-University	.....	1963
B.Sc. Chemistry	.....	1964
B.A.Literature	.....	1964
B.A.Economics	.....	1964
B.Sc.Botany	.....	1967
B.Sc.Physics	.....	1968
B.A.History	.....	1969
M.A.	.....	1969
B.Com.	.....	1970

There are 81 teachers and 1042 students in under-graduate courses and 8 teachers and 44 students in post - graduate courses. The details of students enrolment for the year 1970-71 to 1974-75 are given below:-

<u>Course</u>	<u>1970-71</u>	<u>1971-72</u>	<u>1972-73</u>	<u>1973-74</u>	<u>1974-75</u>
P.U.C.	549	550	620	636	670
<u>Degree Science:</u>					
I year	103	100	109	113	102
II Year	87	94	95	104	104
IIIyear	85	85	89	92	102
<u>Degree Arts:</u>					
I Year	142	173	187	144	142
II year	146	135	153	182	134
IIIyear	123	143	125	152	177
<u>Degree B.Com.:</u>					
I Year	55	60	59	70	75
II year	..	53	59	55	71
IIIyear	..	..	52	59	54
<u>P.G.(M.A):-</u>					
I Year	15	20	21	21	21
II year	9	14	20	23	19
Grand Total:	1314	1441	1589	1651	1671

The work-load in respect of English Department is given below:-

S.No.	Designation	Lecture Work	Super- vision	Correction of records & note books.	Tutorial system
1.	Professor & Head of the Department	16 hrs.	-	-	20 students
2.	Prof/ Addl. Prof.	14 hrs.	-	-	20 "
3.	Lecturer	16/17 hrs.	-	-	20 "
4.	P.G. Teachers	2 hrs.	-	140 books	20 "
5.	Tutors (B. A)	-	2 hrs.	20 approx.	20 "

The Committee was happy to note that the college is the first women's institution in the Tamilnadu State to introduce B.Com. Course.

Finance:

The committee was informed that this college receives maintenance grants from the Tamilnadu State Govt. besides its income from fees, contribution from the Management and other sources. During 1974-75 the total income of the college was Rs.12.77 lakhs including development grants received from the State Govt. and other sources. The expenditure was also a similar amount, as indicated below:-

1. Salaries to teaching staff	...Rs.6,63,141-10
2. Administration staff (including library staff)	...Rs.1,18,320-80
3. Library books and journals	...Rs. 19,563-30
4. Scholarships and stipends	...Rs.1,69,587.25
5. Others	...Rs.3,01,650-03
Total:	<u>...Rs.12,77,262-48</u>

Physical Education & Other activities:-

The committee noted that the students of this college take keen interest in physical education. The college has facilities for indoor and outdoor games. They also participate in the National Cadet Corps, Social Service League and extra-curricular activities.

Under Social Service League, the students have visited hospitals and slums. Also League members have started Adult Education in the area nearby. A sales campaign was conducted and the proceeds have been utilised for the help of the deserving students of the college and the orphan children in the area.

Under extra-curricular activities, the College Union has, in its different associations, conducted many oratorical contests, debates, quiz programmes, dramatic competitions and seminars. They have won several prizes and shields in competitions. Some of the students won prizes as best debaters in Tamil and English and in inter-collegiate debates.

Postgraduate Department:-

The college conducts only one post-graduate course i.e. M.A. in English Language and Literature.

P.G. Department of English:-

In the year 1971, the college got affiliation for M.A. Course in English Language and Literature. It has sent a proposal for the purchase of books and journals at an estimated cost of Rs. one lakh during the 5th Plan for the Post-graduate Department of English. The post-graduate library is accommodated in the library building which has a floor area of 2,100 sq.ft. The total number of reading seats provided in the Library is 80. The total number of books in the library is 13,900. The number of journals already subscribed to by the college is 60. The library has an open-access system. The expenditure incurred by the College for books and journals during the past three years is given below:-

<u>Year</u>		<u>Books</u>	<u>Journals</u>
1972-73	....	Rs.17,887/-	Rs.3,420/-
1973-74	....	Rs.13,820/-	Rs.5,275/-
1974-75	....	Rs.19,564/-	Rs.6,001/-

The Postgraduate department of English had an enrolment of 42 students during the year 1975-76 with a total teaching staff of 8 for both undergraduate and postgraduate courses. The enrolment from 1970-71 to 1974-75 for post-graduate course in English (both the 1st and 2nd year) was as given below:-

<u>Year</u>		<u>Enrolment</u>
1970-71	.....	24
1971-72	.....	34
1972-73	.....	41
1973-74	.....	44
1974-75	.....	40

In the examination results for the postgraduate course in English from 1970-71 to 1974-75 against 82 students appeared for final year, 3 secured first class and 51 secured second class. During 1975-76 the pass percentage for M.A. in English Literature was 95%.

Observations and Recommendations:-

This is the only college in Coimbatore imparting postgraduate course in English Literature for women students. However, it is observed that this Department has no teacher with Ph.D. or M.Phil. Degree or research experience. The college authorities brought to the notice of the committee that it is difficult to get teachers with such qualifications. However, some of its teachers have already registered for Ph.D. and M.Phil. under Faculty Improvement Programme so as to conform to the UGC norms.

The Committee also noted that grant of Rs.22,500/- sanctioned to the college for the purchase of books and journals during the 4th plan had been fully utilised by the College alongwith its own share.

The Committee recommends that the college should take vigorous steps for faculty improvement and in the meantime since the Department of English has no teacher with research experience, a post of Reader may be sanctioned.

The financial implications of the recommendations are as given below:-

1.Books & Journals	.....Rs.30,000	(Rs.20000/- for books and Rs.10000/- for jour- nals)
2.Faculty improvement	....	Rs.20,000/-
3.Misc. Visiting Fellowships, /Guest lecture etc....	Rs.10,000/-	
4.Purchase of equipment (linguaphone tape etc.)	Rs.10,000/-	
Total:	Rs.70,000/-	

Additional staff:

Reader 1 (UGC scale)

General Observations:-

This college is one of the younger colleges which have reasonable amount of physical facilities such as buildings, library, laboratory. The Committee was impressed by the lay-out of the building, general maintenance, organisation and all-round performance.

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The Committee noted that this college has fully utilised the facilities available in the shape of library and faculty and it serves the needs of the students community coming from the undergraduate Colleges of the surrounding areas. However, it should have a clear cut programme of research. It was noted that it has taken steps for faculty improvement programme so as to conform to the norms laid down by the Commission and encourages teachers to attend national conferences in their subjects every year. However, it should organise more annual colloquia for the benefit of the teachers and students, in which university and college teachers should also participate.

Acknowledgements-

The Committee records its gratefulness to the Correspondent, Principal, Heads of the Departments and other authorities of the P. S. G. R. Krishnammal College for Women, for the facilities and co-operation extended to it during the visit to the college. It is also grateful to the Correspondent Mrs. G. Chandrakanthi for the hospitality shown to it during the visit.

Sd/-

1. C.D.Narasimhaiah
2. E.S.Rajagopal
3. K.T.Ramakrishna
4. K.G.Adiyodi
5. N.R.Krishnaswamy
6. Sp. Shanmuganathan
7. S.Ramamurthy.

UNIVERSITY GRANTS COMMISSION

Report of the Visiting Committee appointed for assessing the development proposals of the Postgraduate Departments of the Colleges located in Tiruchirapalli and Coimbatore.

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SRI AVINASHILINGAM HOME SCIENCE COLLEGE FOR WOMEN, COIMBATORE

The Committee constituted by the University Grants Commission to review the development of Postgraduate Departments and assess the 5th Plan Development proposals of the Post-graduate departments of the colleges affiliated to Madras University, in the districts of Coimbatore and Tiruchirapalli, visited Sri Avinashilingam Home Science College for Women, Coimbatore on 14th September, 1976. It consisted of the following members:-

1. Prof. C. D. Narasimhaiah,
Department of English,
Mysore University,
Mysore.
2. Prof. T. S. Rajagopal,
Dean of Sciences,
Indian Institute of Science,
Bangalore.
3. Dr. K. T. Ramakrishna,
Department of Economics,
Kakatyia University,
Warangal.
4. Dr. K. G. Adiyodi,
Department of Zoology,
Calicut University.
5. Dr. N. R. Krishnaswamy,
Department of Chemistry,
Bangalore University,
Bangalore.
6. Dr. Sp. Shanmuganathan, (Representative of
Principal, Madras University)
Pachaiyappa's College,
Madras.
7. Mrs. S. Ramamurthy, (Secretary to the Committee)
Assistant Secretary,
University Grants Commission,
New Delhi.

The Committee also held discussions with the Founder of the College Sri Avinashilingam, Principal and Heads of the Departments of Home Science and Bio-Chemistry.

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Sri Avinashilingam Home Science College came into existence in 1957 as one of the institutions in the educational complex providing for women's education from the nurse school stage upto the post graduate level in one campus. It has been recognised as one of the institutions devoted to the cause of women's education endeavouring to uphold the high traditions of Shri Ramakrishna, Swami Vivekananda and Mahatma Gandhi and to instal in the students a sense of learning and to live and work in co-operation.

The college is permanently affiliated to Madras University and is managed by a private body Sri Avinashilingam Educational Trust.

The Committee noted that the college is one of the biggest for Home Science in India, providing 9 undergraduate courses and 6 postgraduate courses in Arts and Science. It is also recognised for Doctorate in Food and Nutrition, Child Development, Home Management and Home ~~Sc~~ Science Extension

The college offers courses in P.U.C., B.A., B.Sc., in Mathematics, Chemistry, Zoology, Home Science, Economics, Indian Music and Tamil Literature majores with ancillaries. Further it also conducts M.Sc. courses in Home Science and Bio-Chemistry. Postgraduate diploma courses in Nutrition and Dietetics Food Science and Preservation, Pre-School Education and Interior Design and Environment are also offered by the College.

It has got programme for running short-term courses, adult education programmes, refresher courses, seminars, rural development work etc.

The Committee was informed that this college is the only institution to the University of Madras providing for training and research in six field of Home Science Education.

Physical Facilities:

The Committe was taken around to show the physical facilities available. It was happy to note that the area of the college campus is 10.79 acres of which 8 acres are earmarked for play grounds and other purposes. The area utilised for construction of college buildings and hostels is 24620sq. ft. There are 45 class rooms /lecture theatres. There is a library with 430 reading seats.

The total floor area of the library is 7865 sq.ft. For postgraduate courses an area of 1542 sq.ft. demarcated. There is a separate room exclusively meant for periodicals. Total number of books in the library is 46,072. There is open shelf system in the library for staff and postgraduate students. There are 30 science laboratories for a batch of 20 students each.

The college has enough facilities for sports and games for the students.

Enrolment:-

During 1975-76 the total enrolment of the College was 1400 with a total teaching strength of 112. The details of enrolment during 1975-76 is given below:-

	Arts (Humanities & Social Sciences)	Science	Commerce	Home Science	Total
<u>1975-76</u>					
a) Pre-University	201	423	-	-	624
b) <u>First Degree</u>					
I year	122	144	-	91	357
II year	90	148	-	127	364
III year	117	133	55	53	368
	-----	-----	-----	-----	-----
	339	848	55	281	1713
	-----	-----	-----	-----	-----
c) <u>Postgraduate:</u>					
I Year	14	13	-	48	75
II Year	-	12	-	50	52
	-----	-----	-----	-----	-----
	14	25	-	98	137
	-----	-----	-----	-----	-----
d) Research	-	-	-	-	-
e) Diploma Course	-	-	-	51	51
	-----	-----	-----	-----	-----
	-	-	-	51	51
	-----	-----	-----	-----	-----

The examination results for postgraduate courses during 1974-75 and 1975-76 are given below:-

	M.Sc.	Home Science		P.G.Diploma	
	Appeared	Passed in		Appeared	Passed
		Div.			in Divn.
		I	II	I	II
1974-75	44	25	19	-	-
1975-76	49	29	20	46	42

630 students reside in hostels . The students of this college in the Department of Home Science and Bio-Chemistry have been securing almost cent-percent pass every year.

The average work-load per teacher is given below:-

1. Formal Lectures	.....16 hrs.
2. Tutorials/Seminars	..... 4 "
3. Practical Work,if any	..... 4 "
4. Other duties	..... 1 "Counselling.....4.....

The Committee was informed about the various activities of the college such as N.C.C., National Service Corps, Students' Union, Social Services Association, and career Counselling unit etc.

Work Experience:-

The Committee was happy to note that the college provides work experience for the students by giving training in various fields like typing, library assistance, gardening, drinking water facilities, canteen, handicrafts, ambar charkha, spinning, Stationary assistance and ironing. In 1974-75, 130 students were the beneficiaries of the programme and received Rs.5200/-. In 1975-76, 200 students enrolled in work experience and an amount of Rs.5,500/- was spent on remuneration. The growth and development of this institution are three dimensional i.e. increase in the number of students, activities and in wages.

Postgraduate Courses:

The Committee noted that the college conducts Post-graduate courses (M.Sc.) in Home Science and Bio-chemistry

1. Postgraduate course in Home Science:-

The college specializes in 6 branches in M.Sc. Course of Home Science, as given below:-

Br. I	M.Sc.Home Science	....Home Management.
Br.II	M.Sc.Home Science	....Institution Management and Dietetics.
Br.III	M.Sc.Home Science	....Food and Nutrition.
Br.IV	M.Sc.Home Science	....Textiles & Clothing.
Br. V	M.Sc.Home Science	....Child Development.
Br.VI	M.Sc.Home Science	....Extension Education.

There are 11 well equipped laboratories for Home-Science. There is a separate building for post-graduate research in Home-Science. The Committee was happy to note that the post-graduate library has a collection of about 15,000 books on Home Science allied subjects. There are 32 teachers in the Department of Home Science for teaching both undergraduate and and post graduate courses. Two of the teachers are Ph.D. degree holders. The college has been incurring an average expenditure of more than Rs.11,000/- per year on laboratory equipment.

From the year 1970-71 to 1975-76 a total of 276 students appeared for the final year M.Sc. in Home Science in its different branches. Out of this 132 students secured first class and 139 second class. The students of this college have been securing first rank in the University for M.Sc. Food and Nutrition for the past 6 years (from 1970-71 to 1975-76). The students of the branch Home Management secured first position in the University thrice during the past 6 years.

In post-graduate diploma courses in Home Science i.e. Diploma in Nutrition and Dietetics, Food Science and Preservation, Pre-School Education and Interior Design and Environment against 46 students who appeared during 1975-76 42 secured first class and 4 second class.

The Home Science Department of this college is recognised for doctorate in Food Nutrition, Child Development, Home Management and Home Science Extension. During 1976-77 the College admitted 90 students for M.Sc. Home Science distributed among 6 branches and 53 students for postgraduate diploma courses.

Research:

The Committee was informed that a three year research programme on the evaluation of locally available inexpensive but nutritious foods and low cost vegetable mixtures with human trials is in progress. Two projects on 'Nutrition and Mental Development' and 'Efficiency of the Methods of Nutrition Education' both sponsored by the I.C.M.R. are over. High lysine maize feeding project is another human feeding project conducted by institution. The research in leaf protein involves feeding 300 children in six villages. A project on Nutrition/Health Education and environmental sanitation at primary school is also being carried out.

Publications:

The Committee was happy to note that the Department of Home Science has brought out 16 publications besides a bio-monthly journal, the Indian Journal of Nutrition and Dietetics so as to meet, to some extent, the problems in Home Science in India. It also started a science magazine, a monthly release in Tamil 'Vignana Chudar'.

There are students from different parts of the world who attend special programmes as well as regular courses in Home Science in this college.

The various steps taken to effect faculty improvement programmes, were appraised to the Committee. It noted that towards this end the staff members in the Department helped postgraduate students to select research topic for their thesis and help them in its implementation and write up. The research findings are being published in scientific journals projects are conducted by each student for courses in the curriculum and with the assistance of the staff members. The post-graduate students accompanied by teachers visit nearby rural areas to assess the existing nutritional status and impart nutrition education and evaluate the same. The teachers participate in summer institutes in human nutrition for college teachers, organised since 1969 under the sponsorship of ICAR/FAO/UNICEF. They also participate in the workshops and orientation courses sponsored by the Madras University to understand the existing curriculum and to

teach it by effective methods . The college further proposes to send its staff for training under faculty improvement programme . The teachers of the Home science Department contribute articles of scientific interest to scientific journals and popular magazines.

The proposals for this department for the development during 5th plan inter-alia include the following:-

1. Construction of food testing Laboratory for the branch of Food & Nutrition.	.....Rs.49,000
2. Purchase of books and journals	.....Rs. 31,000
3. Purchase of equipment	.....Rs. 31,250
4. Faculty improvement programme	.....Rs. 33,600
Total:	Rs. <u>1,44,950</u>

During 4th Plan the Commission sanctioned the following grants to the college:-

Home Science building	.....	Rs. 36,000
Equipment and furniture	.....	36,000
Books and journals	.....	7,200
Additional Staff	.....	<u>11,700</u>
Total :		<u>Rs. 90,900</u>

The college has fully utilised these grants alongwith its own share.

The committee felt that the college requires a food testing laboratory to develop simple food testing procedure and to educate and benefit the consumer. It requires strengthening of the existing Laboratory facilities with additional latest precision equipment in development proper laboratory technique among the students.

Since this college has taken steps in faculty improvement programme and many of the teachers have already been registered for Ph.D. and M.Phil. so as to conform to the norms prescribed by the UGC for assistance for postgraduate courses, the Committee recommends the following grants:-

Recommendations:

Construction of food testing laboratory (UGC share)	...Rs.24,500
Purchase of scientific equipment	... 31,000
Purchase of books & journals including back volumes.	... 31,000
Faculty improvement programme	..... 33,000
Visiting appointments/Guest lectures etc.	... <u>10,000</u>
Total :	..... <u>129,500</u>

2. Department of Bio-Chemistry:-

The Committee noted that this is the only college offering M.Sc. course in Bio-Chemistry in Coimbatore. This course got affiliation in the year 1969. There are 24 students in this department for both first and second year with 5 teachers (2 professors, 2 lecturers and 1 Demonstrator). Two professors are Ph.D. degree holders. All the teachers working in this department are permanent. There are 3 laboratories for the Department of Bio-Chemistry.

An area of 4,483 sq.ft. is provided for the Laboratory for M.Sc. in Bio-Chemistry. The expenditure incurred by the college for purchase of laboratory equipment from 1972-73 to 1974-75 is as given below:-

1972-73	.....	Rs. 33,788-95
1973-74	.....	Rs. 13,960-58
1974-75	.....	Rs. 24,038-74
Total :		<u>Rs. 76,788-22</u>

The expenditure towards books and journals during the years 1972-73 to 1974-75 is as given below:-

<u>Item</u>	<u>1972-73</u>	<u>1973-74</u>	<u>1974-75</u>
Books	5,400	5,300	5,900
Journals	5,300	6,000	6,250

There are 617 books in the library on Bio-Chemistry. The library needs to be further strengthened.

The Commission sanctioned a grant of Rs.81,000/- during 4th Plan towards construction of laboratory building, purchase of equipment, books and journals, appointment of a Senior Lecturer and for special lectures by experts. These grants have been fully utilised along with its own share.

Programmes for faculty Improvement (Existing):-

The Committee was informed about the programmes for faculty improvement of the department of Bio-Chemistry, according to which each staff member is required to take up a small research project and work on it. In the past, the following projects had been taken up and completed successfully. The research findings of the above projects are already published in scientific journals:-

- (a) Availability of Beta-Carotene from Carrots in a human feeding trial.
- (b) Analysis of three hybrid varieties of wheat for selected nutrients.

- (c) The effect of boiling ,steaming and paning on the mineral and vitamin content of three vegetables.
- (d) Chemical changes occuring in sunflower oil on cooking and its acceptability.
- (e) Evaluation of a weaning mixture based on local foods.
- (f) Nutrition education in a carry home food project.

It noted that the staff members contribute articles of scientific interest to popular scientific journals like 'Vignana Chudar', a Tamil Monthly. They also take the students of M.Sc. Bio-Chemistry to some village in Coimbatore District every year, camp there for ten days and conduct a survey on the nutritional status of the school-going children or pregnant ladies or any other group of villagers. This information is passed on to the extension workers for follow up action and further research.

The Bio-Chemistry Department conducted a Summer Institute in Nutritional Bio-Chemistry for college teachers in May, 1970.

Programmes to be undertaken in the futures:-

1. The committee noted the plans of the Department to under-taken the following Research projects in future by the staff:-

- (a) Utilisation of sunflower oil in human dietaries (two years' project).
- (b) Effect of sunflower oil as a source of dietary fat and fatty acids on liver lipid accumulation in rats(two years' duration).
- (c) effect of insect infestation on the chemical composition and nutritive value of bengal gram and field bean (one year duration).

2. Extension Programme:

The committee was informed that it proposes to set up a clinical laboratory for the public at nominal rates i.e. on 'no profit no loss' basis to that would provide work experience to II Msc. Bio-Chemistry students and extension work to the Department. Only the initial outlay has to be met as the laboratory is expected to be self-maintained.

3. It noted the further training programmes of the Department according to which:-

- (a) A staff member will be deputed to B.A.R.C., Bombay to learn the use of isotopes in bio-chemical research.

- (b) A staff member will be sent to the Advanced Centre in Bio-Chemistry at the Indian Institute of Science, Bangalore to learn modern bio-Chemical techniques.

Observations and Recommendations:-

This college is running an M.Sc. course in Bio-Chemistry and has well equipped, well-organised and well maintained laboratories. When the Committee visited this college, class work was in progress and the Committee held a discussion with some students of Bio-Chemistry. The course contents are attractive and the accent is on the Bio-Chemistry of foods. The Department has an adequate number of modern instruments and most of them are being utilised. The staff includes some who hold research degrees and who have been well trained in research methods. Active research work is also going on in this department.

The department desired a grant of a new laboratory for tracer studies. This is an important area of research in Bio-chemistry and does require a well planned separate laboratory. In view of the fact that the department has been turning out good work this grant may be sanctioned. The UGC's share for this item would be a maximum of Rs.37,500/-. The balance of the total grant(Rs.1.5 lakh) may be allocated as follows:-

Equipments	.....	Rs.38,000
Journals and books	....	Rs.40,000
Faculty Improvement, visiting lecturers etc.	....	Rs.32,500

General Observations & Recommendations:-

The committee noted that the college has taken intensive and extensive measures towards faculty improvement programmes. The faculty of the college has been actively participating in summer schools, seminars, refresher courses short-term courses, publication of literature etc. This college has scope and potentiality for development of Home Science in its different fields. The post-graduate departments of the college have adequate materials and other equipments and its libraries are well equipped with standard journals and books. The college provides enough funds for books and journals every year. It also provides facilities for research in Home Science Department. The staff of the post-graduate college are well qualified in the discipline in which they are teaching. It offers instructions from kindergarden to post-graduate courses and these various levels seem to have integrated themselves homogeniously giving a particular advantage in as much as they help

in the successful demonstration of educational theories and experiments .

Special recommendations regarding the College:-

The Committee sympathised with the authorities in their request for grants towards faculty improvement programme to the six specialised courses in Home Science as independent departments widen Home Science, but it could not consider them so, at least for the present. However, as a special case and in appreciation of the good work they have done in community extension programmes, an ad hoc grant of Rs. one lakh in addition to the normal grant of an equal sum is recommended to the post-graduate department of Home Science as a whole to the college towards faculty improvement programme.

Acknowledgements:-

The Committee records its gratefulness to the Principal , Heads of the Departments and other authorities of the Sri Avinashilingam Home Science College for Women for the co-operation extended to it during its visit to the college.

Sd/-

1. C.D.Narasimhaiah
2. E.S.Rajagopal
3. K.T.Ramakrishna
4. K.G.Adiyodi
5. N.R.Krishna swamy
6. Sp. Shanmugana than
7. S. Ramamurthy.

UNIVERSITY GRANTS COMMISSION

Report of the Visiting Committee appointed for assessing the development proposals of the Postgraduate Departments of the Colleges located in Tiruchirapalli and Coimbatore Districts.

P.S.G. Arts College, Coimbatore.

The Committee constituted by ~~the University Grants Commission~~ to review the development of Postgraduate Departments and assess the 5th Plan development proposals of the Postgraduate Departments of the Colleges affiliated to Madras University, in the districts of Coimbatore and Tiruchirapalli, visited P.S.G., Arts College, Coimbatore on 14th September, 1976. It consisted of the following members:

1. Prof. C.D. Narasimhaiah,
Department of English,
Mysore University,
Mysore.
2. Prof. E.S. Rajagopal,
Dean of Sciences,
Indian Institute of Science,
Bangalore.
3. Dr. K.T. Ramakrishna,
Department of Economics,
Kakatiya University,
Warrangal.
4. Dr. K.G. Adiyodi,
Department of Zoology,
Calicut University.
5. Dr. N.R. Krishnaswamy,
Department of Chemistry,
Bangalore University,
Bangalore.
6. Dr. Sp. Shanmuganathan, (Representative of the
Principal, Madras University)
Pachaiappa's College,
Madras.
7. Mrs. S. Ramamurthy, (Secretary to the Committee)
Assistant Secretary,
University Grants Commission,
New Delhi.

The Committee held discussions with the Principal and Heads of the Departments of the college. It has also visited the libraries and laboratories of the various Departments.

The P.S.G. Arts college was started on 15th August, 1947 and is permanently affiliated to Madras University. The college secured permanent affiliation for B.A. courses in English, Tamil Economics and secured provisional affiliation for Psychology and Corporate Secretaryship in 1975. It has also secured permanent affiliation for B.Sc. in Mathematics, Statistics, Physics, Chemistry, B.Com. Course, M.A. in Economics, Tamil, Social Work, M.Sc. in Mathematics, Statistics, Physics, Chemistry and M.Com.

This college is managed by a private body (Registered) Trust - M/s P.S.G & Sons Charities, Coimbatore and is a co-educational institution.

The enrolment for various courses during the year 1975-76 is as given below:-

<u>Course</u>	<u>Total number of students</u>	
B.A. Degree	...	351
B.Sc. Degree	...	638
B.Com. Degree	...	446
M.A. Economics	...	55
Tamil	...	56
Social work	...	27
M.Sc. Mathematics	...	32
Statistics	...	31
Physics	...	37
Chemistry	...	35
M.Com. Degree	...	53
Research	...	3
		<u>1785</u>
Pre-University	...	<u>930</u> Total: <u>2715</u>

Its development activities and projects include electroplating, designing simple instruments, X-Ray studies spectroscopy etc. The committee was informed that the college desires to take up some work in foundry iron and foundry practices since Coimbatore has large number of foundries and produces nearly half the total number of pumps sets produced in India.

Academic Distinction :-

The Committee was informed that the college has always secured first few ranks amidst the Arts College of Madras University.

Extra Murial Activities:-

The extra murial activities of the college include N.C.C., Social Service league, N.S.S. etc. The college has a Social Service League and National service Scheme. Variou

squads are organised with the help of the staff members for recreational, cultural, adult education activities. Camps are also conducted.

The college has several associations which organise weekly seminars on various subjects. Orientation programmes are organised in the college besides orientation courses to train teachers for National Service Scheme. A Centre on employment information and guidance has been started by the college.

Physical Facilities :-

The committee was shown the physical facilities available for the college. The college is situated in an area of 52.5 acres. Each Department has a separate building with adequate facilities for library, laboratory, class rooms etc. There are hostels for men students, women students and teachers in the campus. 500 boys and 60 girls are accommodated in the hostels besides 24 teachers. There are 13 staff quarters for the teachers to stay. Hostels are run on co-operative basis.

The laboratories are well equipped for class work and to certain extent for research. The College has also audio-visual aids such as closed-circuit television with camera, 51 numbers of 16 mm films, 137 film strips, 2 numbers of 16 cm projectors, 3 overhead projectors, 4 slide projectors, 2 spidioscopes besides hundred of charts and models.

Library:

It has observed that the general library has an area of 12700 sq.ft. with 250 reading seats. It has introduced open access system. It noted that amount spent on library books and journals during the past 3 years is as given below:-

1970-71	.....	Rs.40,329-33
1971-72	.....	Rs.91,331-64
1972-73	.....	Rs.91,280-54
1973-74	.....	Rs.54,308-44
1974-75	.....	Rs.82,780-25
1975-76	.....	Rs.91,970-12
Total:		<hr/>
		Rs.461,550-32

Rs.30,000/- was spent on journals. It has a collection of over 30,000/- books and subscribes for 145 journals.

The Committee noted that this college has been recommended by the Madras University for autonomous status.

....4.....

The Departments of Economics, Tamil, Mathematics, Chemistry and Commerce are recognised for research.

Teaching staff:-

The college has one principal, 19 professors and 74 Assistant professors, besides 5 part-time Assistant Professors, 30 Tutors and Demonstrators, one Physical Director, one physical training instructor and one Librarian. Research activities commenced in this college w.e.f. 1970. During this period the college has produced 4 Ph.D's, 3 M.Litts., and published several research papers.

The average work-load per teacher per week is as given below:-

1. Formal Lectures

Humanities subjects	.....	16 hours per week
Science subjects	.....	8 to 10 hours per week.

2. Tutorials/Seminars

2 hours seminars for postgraduate classes

3. Practical work, if any

About 10 hours for Science subjects.

4. Other duties Nil.

Research Methodology and Seminars:

The college conducted two research methodology courses - one in 1973-74 and another in 1975-76. It also conducted 5 seminars within this period.

Fabrication of equipment:-

The committee noted that with the technical knowledge available among the teaching community at the P.S.G. Industrial Institute, the College has attempted to fabricate and develop equipments for research and for day today use. During the year 1975-76 the Physics Deptt. built one Festia-Ebert type spectrograph, an Amphone, and a Visicator (the last two were built by one Shri C. Narendran, Assistant Professor of Physics).

Postgraduate courses:-

It was noted that the college conducted post-graduate courses in 3 fields such as M.A. in Economics, Tamil and

Social work; M.Sc. in Mathematics, Physics and Chemistry and M.Com. In addition, six departments (Economics, Tamil, Mathematics, Physics, Chemistry and Commerce) are recognised for research leading to Ph.D. degree of the University of Madras.

During 1975-76, the college secured 40 first classes distributed among 7 subjects (Economics -1; Tamil -7; Mathematics -8; Statistics -5; Physics -10; Chemistry -8; and M.Com. -1). Seminar participation is compulsory for postgraduate students - each student has to participate prepare one paper at least every year and has to preside at least over one meeting wherein another student reads a paper. The papers read during the past two years are kept in every Department.

During 1975-76, 152 papers were read at the Seminars organised in the college for various subjects. All postgraduate courses are on Semester pattern from 1976-77 and each subject has 25 marks for continuous assessment. Postgraduate students in Chemistry, Statistics, Social work, Economics, Physics and Commerce had project work/ Dissertation for University Examination.

It was noted that the financial position of the college is quite sound. It can undertake any programme of development as and when sanctioned by the UGC. The college has taken up research only recently and it is hoped more scholars will do research on full time basis.

1. Department of Economics:-

The Committee was informed that the college secured permanent affiliation for M.A. Course in Economics in 1966. This Department published 7 papers, 3 books and 57 articles. There are 56 students and 9 teachers for both undergraduate and postgraduate teaching. Two professors are Ph.D. Degree holders. Four other Assistant Professors are already working for Ph.D. The average work-load per teacher is 18 hours per week including seminar work.

The Committee noted that during 1975-76 out of 27 students appeared, one student secured first class and 26 second class. During the past three years the students of this department secured pass percentage varying from 95 to 100%. Two students are doing research leading to Ph.D.

There are over over 3300 books on the subject in the library. This Department requires one more teacher with research qualifications. The library requires to be strengthened with back numbers of journals and books on the subject.

The Committee noted that during 4th plan period, the Commission sanctioned to this college a grant of Rs.31,400 for building of Economics Block, Rs.3,000/- for furniture and Rs.7,500/- for books and journals which had been utilised fully along with its own share. Project work is part of the M.A. course in Economics.

This department has a good record of progress and potential for further development. It conforms to the UGC norms and their proposal for the development for fifth plan is justified.

Recommendations:

Professor ... 1 (in college scale)	...	Rs.17,000	(Rs.800-1250)
Books and journals	...	Rs.50,000	
Equipment (including a typewriter with mathematical symbols)	...	Rs.10,000	
Miscellaneous - F.I.P./ guest lecturer etc.	...	Rs. 8,000	-----
	Total: ...	Rs.85,000	-----

2. Department of Commerce:

The Committee noted that this department has 52 students with 15 teachers out of whom one is Ph.D. It has published 4 research papers and read 20 papers in the Seminar organized during 1975-76. Five teachers - one Professor and 4 Assistant Professors are engaged in research work. In April 1976, 27 students appeared out of which one student secured first class and 19 second class. One scholar is doing research leading to Ph.D.

There are two class rooms for this department. The extension of accommodation is required to provide a reading room facility to the department and use the hall for purposes of seminars and discussions. Hence a grant of Rs.25,000/- (UGC share) is recommended towards the construction of extension of teaching accommodation. The library of this department needs to be strengthened. Improvement of teaching can perhaps be achieved by the appointment of a Professor with a good Ph.D. degree or requisite research experience.

P.T.O.

It was noted that this department has a good record and potential for further development. Its proposals for the development for the fifth plan are fully justified.

Recommendations:

Extension of teaching accommodation (UGC share)	...	Rs.25,000
A Professor in the College scale (with research experience)	...	Rs.17,000 (Rs.800-1250)
Library books and journals	...	Rs.25,000
F.I.P./Guest lecturer etc.	...	Rs. 5,000

Total:	...	Rs.72,000

3. Department of Tamil:

The Committee was informed that the college secured permanent affiliation in 1967 for M.A. course in Tamil. This department has 56 students with a total teaching staff strength of 17 for both undergraduate and postgraduate teaching, out of whom 2 are Ph.Ds. Two other teachers have submitted their thesis for Ph.D. and two more have registered for Ph.D. Among the scholars two have obtained Ph.D., one has submitted the thesis and seven are working for Ph.D. During 1975-76, out of 30 students appeared for M.A. final year, 7 students secured 1st class and 22 second class. The department published a total of 55 papers and read 25 papers at the Seminars organized during 1975-76. Besides these, several teachers have published several articles and books.

During 4th plan, the Commission made a grant of Rs.9,000/- for books and Rs.45,157/- for the construction of postgraduate block and purchase of furniture. The college has utilized this grant fully along with its own share.

Recommendations:

Library books and journals	...	Rs.25,000
Miscellaneous - F.I.P./ guest lecturer etc.	...	Rs. 8,000

Total:	...	Rs.33,000

3. Department of Social Work:

The Committee noted that M.A. in Social work secured permanent affiliation in 1962. There are 27 students for this course and 3 teachers out of whom 2 are Ph.Ds. The teachers of this department published 9 papers and 12 articles. They have read 13 papers in the Seminars during 1975-76. One teacher is engaged in research leading to Ph.D. From 1971-72 to 1974-75 out of 97 students appeared, 8 students secured first class and the remaining second class. It was noted that during 4th plan period, the Commission did not assist this department.

The Committee felt that this department requires a jeep for field work and the library needs strengthening. A field supervisor is necessary to arrange institutional visit for students and guide them.

Recommendations:

Equipment (a jeep for field work)	...	Rs. 20,000 (UGC share)
Library books and journals	...	Rs. 45,000
Field supervisor in the scale.. of Prof. of the college	Rs.	17,000 (Rs.800-1250)
F.I.P./guest lecturer	...	Rs. 18,000
Total:	...	Rs.1,00,000

5. Department of Mathematics, Statistics & Physics:

General Observations:

The Committee was impressed by the vigour and enthusiasm displayed by the Department of Physics and Mathematics. The staff have shown an awareness of the newer trends in college education and in establishing links between the class-room teaching and practical experience. With the availability of a digital computer in a nearby institution, the two departments should take up project work involving computer programming and applications. The two departments are also in need of extension to their buildings, for class room and laboratory work. The Committee, however, could not favourably consider the request for additional Professorships in the departments. The Committee feels that with the emergence of many staff members with research experience and the possible status

of an autonomous college, this must be deferred for the present. However, the Committee recommends substantial faculty improvement guest lecturer programmes to further the harmonious growth of the departments.

6. Department of Mathematics & Statistics:

It was noted that there are 83 students and 20 teachers out of whom 3 are Ph.Ds. Five teachers are presently engaged in research work. This department has published a total of 35 papers and read 39 papers in the Seminars during 1975-76. Out of 37 students appeared during April 1976 examination, 13 students secured first class and 15 second class. One scholar is doing research leading to Ph.D. The Committee has noted that during 4th plan period, the Commission approved a grant of Rs.8,000/- for laboratory equipment and Rs.24,000/- for books and journals. The college has utilized this grant fully along with its own share.

Recommendations:

Extension of laboratory building (UGC share)	...	Rs.25,000
Purchase of equipment	...	Rs.20,000
Library books and journals	...	Rs.25,000
Guest lecturer/F.I.P.	...	Rs.25,000

Total:...		Rs.95,000

7. Department of Physics:

The area of physics laboratory is 4,200 sq.f.t. There are 36 students in the department with 17 teachers out of whom 2 are Ph.Ds. Three other teachers are engaged in research work. This department has published a total of 22 papers and read 28 papers in the Seminars. During April 1975 examination out of 19 students appeared, 10 secured first class and 9 second class. This department has built Fostie-Ebert Type Spectrograph and Visicator (Visitor Indicator).

During 4th plan period, this department was not assisted.

P.T.O.

Recommendations:

Extension of laboratory building (UGC share)	...	Rs. 50,000
Purchase of laboratory equipment	Rs. 60,000	
Library books and journals (including back volumes)	...	Rs. 50,000
F.I.P./guest lecturer	...	Rs. 30,000
Total:	...	Rs. 1,90,000

8. Department of Chemistry:

This department has 34 students with 18 teachers out of whom 4 are Ph.Ds. Three other teachers are doing research leading for Ph.D. This department has published 25 papers and read 28 papers in the Seminars during 1975-76. Out of 15 students appeared in April 1976 examination 8 students secured first class and one second class. One scholar is doing research leading to Ph.D. This department designed tempticolmeter which can be used as a photoelectric colorimeter, titremeter for potentiometric and amperometric titrations and as a device to measure temperatures to the sensitivity of 0.01°C . Further an industrial type electroplating laboratory at a cost of Rs.40,000/- is getting erected in the Chemistry Department to do research on commercial electroplating processes like colour anodizing etc.

During 4th plan period, the Commission approved a grant of Rs.82,500/- for the Department of Chemistry towards purchase of equipment (including furniture) and Rs.15,000/- for books and journals. The college has utilized this grant fully along with its own share.

Observations and Recommendations:

This college has been implementing the revised M.Sc. programme prescribed by the University of Madras with great enthusiasm. It was indeed gratifying to note that all the subjects for project work under the new M.Sc. programme have been very carefully chosen keeping in view that there are many small scale industries in and around Coimbatore. Particular mention may be made of two of the projects - one on an improved procedure for the manufacture of 8-naphthol from naphthalene and another on the utilisation of sun flower stumps for making paper. Most of the members of the staff are young and enthusiastic and have had adequate training

in research methods. The department also possesses a few sophisticated instruments and most of them are being used. The member noticed only one idle instrument - an infracord spectro photometer.

While the research laboratories are fairly well-equipped and maintained, the Committee felt that the laboratories used for regular class work, both undergraduate and postgraduate, were not equally well maintained or equipped. For instance, arrangements for work under reduced pressure were too inadequate. The laboratory table-tops presented a picture of poor maintenance. These are minor defects and can be easily rectified. It must be here again emphasised that in a teaching institution, the accent must be on proper and sound training and therefore, the problems which are chosen for project work should not be of a too specialised nature. The students, before they pass out of the institution, must become familiar with the various operational techniques of experimental Chemistry, at least some of the modern instrumental methods, molecular models, and with various reagents, including those requiring special care in handling and purification. At the same time, the teachers must be encouraged to pursue their research work which may be so planned that it does not break away completely from the postgraduate teaching programme. Such an approach will have the advantage that the research work and the teaching programme will benefit from each other. At the same time the two will not be water-tight compartments each requiring independent allocation of time and finances. It is, therefore, suggested that the department may be advised to buy new equipment and apparatus, with the grant now being sanctioned, keeping in view the considerations outlined above.

The department has adequate teaching staff and particularly if the pre-university course is eliminated, it will not be necessary to immediately recruit another qualified Professor. Further, some of the senior teachers are well qualified and trained for independently guiding research work. Therefore, the Committee recommends that the grant asked for under additional staff may be better utilised for buying more equipment for furnishing the post-graduate laboratory and for books and journals. The instruments at present available in the department are neither too many nor too sophisticated to require the appointment of a full-time research assistant or a technical assistant.

P.T.O.

Recommendations:

Extension of laboratory building (UGC share)	...	Rs. 50,000
Purchase of laboratory equipment	...	Rs. 70,000
Books and journals including back volumes	...	Rs. 50,000
F.I.P. and guest lecturer etc..	...	Rs. 20,000
Total:	...	Rs. 1,90,000

General Observations about the College:

The Committee was very much impressed by the lay-out buildings, library, laboratory, general maintenance, organization and alround performace of the P.S.G. Arts College. A large number of students in the college has been receiving pre-university and undergraduate instruction. The Committee observed that these teaching programmes were not interfering with postgraduate work. This is a welcome feature of this institution. The Committee noted with satisfaction that the postgraduate departments had made good use of such grants as were given them in the past.

The Committee was happy to note that this college has been securing good results consistently at the postgraduate level. It has taken all the steps to come upto the norms suggested by the UGC. Available facilities in the shape of library, laboratory, equipment and faculty reflect the commitment of the postgraduate departments to develop the particular areas in the respective subjects. It was noted that this college serves the needs of the students community coming from the undergraduate colleges of the region. Its various postgraduate departments have scope and potentiality for development and specialisation in certain areas.

There is clear-cut programme of research in the college. It has faculty comparable in quality to that of a university department and it demonstrates potential of growth and specialization. The college has been providing adequate funds for enabling teachers to attend national conferences in their subjects every year. The Committee also noted that the college has been organizing seminars and colloquia for the benefit of its teachers. Its departmental libraries have enough copies of recommended books and the college has

been providing more than the amount prescribed in the UGC norms towards books and journals. It has also been providing more than Rs.5,000/- for the development of research activities

The Committee felt that, while it is desirable that postgraduate teachers should be in touch with undergraduate work, the work must not be such as to drain their energy, especially in view of the introduction of the Semester scheme at the postgraduate level under which the responsibility of the teachers has increased quantitatively as well as qualitatively. Unless their undergraduate work is marginal the teachers are unlikely to find any time for their own reading, reflection and even a modicum of research.

What needs to be done urgently is to provide incentives for colleges with postgraduate departments to 'invite' specialists within the region to visit them and make it obligatory for all teachers in the discipline concerned from different institutions to take advantage of such lectures and use the opportunity to make personal contacts with the visiting specialists with a view to furthering their research interests.

The Committee records its gratefulness to the Correspondent, Principal, Heads of the Departments and other authorities of the college for the facilities and co-operation extended to it during its visit to the college. It is also grateful to the college authorities for the hospitality shown and the facilities provided for the stay and internal travel of the members.

Sd/-
(Prof.C.D. Narasimhaiah
(Prof. E.S. Rajagopal)
(Dr. K.T. Ramakrishna)
(Dr. K.G. Adiyodi)
(Dr. N.R. Krishnaswamy)
(Dr. Sp. Shanmuganathan)
(Mrs. S. Ramamurthy)

Sahani

UNIVERSITY GRANTS COMMISSION

Report of the Visiting Committee appointed
for assessing the
Development proposals of the Post-graduate Depart-
ments of the colleges located in Tiruchirapalli
and Coimbatore.

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GOVERNMENT ARTS COLLEGE, COIMBATORE:

The Committee Constituted by the ~~University Grants Commission~~ to review the development of Postgraduate Departments and assess the 5th plan development proposals of the post-graduate departments of the colleges affiliated to Madras University, in the districts of Coimbatore and Tiruchirapalli, visited Government Arts College, Coimbatore on 13th September, 1976. It consisted of the following members:-

1. Prof. C.D.Narasimhaiah,
Department of English,
Mysore University,
Mysore.
2. Prof. E.S.Rajagopal,
Dean of Sciences,
Indian Institute of Science,
Bangalore.
3. Dr. K.T.Ramakrishna,
Department of Economics,
Kakatyia University,
Warangal.
4. Dr. K.G.Adiyodi,
Department of Zoology,
Calicut University.
5. Dr. N.R. Krishnaswamy,
Department of Chemistry,
Bangalore University,
Bangalore.
6. Dr.Sp.Shanmuganathan, (Representative of the
Principal, Madras University)
Pachaiyappa's College,
Madras.
7. Mrs. S.Ramamurthy, (Secretary of the Committee)
University Grants Commission,
New Delhi.

The committee noted that Government Arts College,
Coimbatore, has not sent the proposals for the development

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of postgraduate courses during the 5th plan period in the prescribed proforma alongwith the basic data through the Madras University as prescribed in the procedure laid down by the UGC. However, as scheduled in the programme of visit arranged by the Madras University, the committee visited the libraries, laboratories of the various post-graduate departments. During the visit, the college supplied to the members, copies of proposals pertaining to the development of postgraduate courses of the college during the fifth plan alongwith the college calendar.

The committee advised the college authorities to send the proposals for the development of postgraduate departments in the prescribed proforma alongwith basic data through the Madras University. Pending the receipt of these proposals, through proper channel the Committee made the following observations and recommendations:

It was noted that the Government Arts College, Coimbatore, 109 years old, had its origin in the Anglo-Vernacular School founded in 1852 by Mr. F.B. Thomas who was the Collector of Coimbatore between 1859 and 1862. This school was later developed into a High School and it had the University entrance and F.A. Courses added to it in the years 1867 and 1868 respectively. The Institution came to be known as "Coimbatore College". In the year 1919, the institution was renamed "Government College, Coimbatore". In 1931, the college was shifted to the present building which formerly housed Medical School. In 1946, the Secondary School course was separated from the college and was handed over to the District Educational Officer. In the same year the B.A (Pure Geography) and B.Com. Courses were started thus raising the status of the Institution into a First Grade College. In 1948, affiliation was granted for opening the B.A. Economics and History (Group IV-B) course. In 1950, the B.A. degree courses in Botany and Zoology as main subjects were introduced. In 1952, the Degree of Bachelor of Oriental Languages (B.O.L.) was started which was converted in the year 1954 into B.A. Tamil Group V.

In 1956, the pattern of University Education in Tamilnadu was re-organised by the University of Madras by abolishing the Intermediate course and introducing the one year Pre-University Course. Consequent on this, the new three year degree course was introduced in the following year. The same year the Pre-professional Course in Agriculture was started in this college as an interim arrangement for 3 years until it was eventually transferred to the local Agricultural College from the academic year 1961-62.

In the year 1960, Tamil was introduced as the medium of instruction in the B.A. degree course in this college

in Geography and Economics. Further in the same year three new B.A. degree courses in History, Political Science and Psychology were opened. This college was then in fact chosen as the pilot college for implementation of the Government's policy of adopting Tamil as the medium of instruction in colleges at degree level.

In 1963, B.Sc. degree courses with Chemistry and Physics as the major subjects were introduced. In June, 1965, the B.A. course in English language and Literature was started. An evening College was started in the same year with Pre-University Course for students who had passed the S.S.L.C. Examination and had completed 18 years of age (now relaxed by two years). The B.A. degree and B.Com. courses in the Evening College were started in the following academic years.

At the beginning of the academic year 1966-67, the college was raised to the status of post-graduate institution with the introduction of M.Sc. Courses in Botany and Zoology and the M.A. Courses in English Language and Literature. Subsequently, the M.Sc. course in Mathematics was introduced in the year 1969, the M.Com. Course in 1972 and the M.Sc. course in Chemistry in 1973.

In the year 1971, English and Tamil were introduced in the B.A. and B.Sc. courses respectively as parallel media of instruction.

Tutorial System:-

It was noted that

Under the tutorial system prevailing in the college each student will be assigned to the care of one of the members of the staff who will be available for consultation and advice on all matters including academic and social.

Other activities of the college:

N.S.S., N.C.C., Physical Education etc:-

The NSS was started in 1969. The NSS programmes cover institutional work, institutional projects, rural projects and urban projects. Under the Institutional work, the students work with educational agencies as volunteers. Under the institutional projects, improvement of college and school campuses, playfields, class rooms, gardens, etc. is involved. It offers opportunities for service to the community to 100 degree and postgraduate class students. Normally, a student will have to choose any one of the four avenues available, namely the N.S.S., N.C.C., N.S.O., and Social Service League.

Physical Education :-

It was noted that every candidate is required to undergo a course of physical training prescribed or recognised by the college. Apart from compulsory physical training activities, provision is made for practise and participation in all games for both men and women students. There is an athletic committee which organises physical training activities, arranges talks on physical education and advises on policies and programmes for promoting games and sports. There is also an athletic council.

Other Associations:-

The Committee was informed about various activities of the college associations pertaining to various subjects and the Social Service League which spread education among the rural people and visit slum areas, in the city and suburban areas.

Library:-

The Committee noted that the college library consists of a General Library and special libraries in Mathematics, Physics, Chemistry, Botany, Zoology, English, Tamil, Sanskrit, Hindi, History, Geography, Commerce, Psychology, Politics and Economics for the use of the students and staff. The library contains 30,000 volumes. The majority of the books are in the General Library. The rest are in special libraries in charge of the respective professors.

College Clinic:

It was noted that there is a medical clinic in the college to conduct medical examinations to the students. A part-time medical officer is also available in the college to give free medical treatment and advice to the college.

Hostel:-

There is a hostel in the college to provide housing and boarding facilities to the students who are coming from outside the city. It is run on a co-operative basis.

Post Graduate Departments:

The committee observed that the college conducts seven postgraduate courses such as M.Sc. courses in Mathematics, Chemistry, Botany, Zoology and Physics, M.A. course in English Language and literature and M.Com.

In the year 1974-75 the Semester system of Examinations was introduced in the M.Sc. course in Chemistry and this was extended to the other M.Sc. and M.Com courses in the year 1975-76 and from the academic year 1976-77 it has been extended to the M.A. Degree course as well.

Enrolment in postgraduate courses during 1976-77 are as follows:-

		<u>Strength in post-graduate class.</u>
M.Sc. Mathematics	...	40(I and II)
M.Sc. Chemistry	...	24(I and II)
M.Sc. Botany	...	24(I and II)
M.Sc. Zoology	...	26(I and II)
M.Com.	...	30(I and II)
M.A. English Literature	...	40(I and II)
M.Sc. Physics	...	10(I year only)

The staff position is as indicated below:-

		<u>Senior Prof.</u>	<u>Adml. Prof.</u>	<u>Asstt. Prof.</u>	<u>Tutors</u>
1. M.A. English	..... -	1	1	17	15
2. M.Sc. Mathematics (Principal)	... 1	1	-	15	-
3. M.Com.	..... -	1	1	7	2½ *Part-time *Lecturer.
4. M.Sc. Physics	..... -	1	-	7	6
5. M.Sc. Chemistry	..... -	1	1	8	8
6. M.Sc. Zoology	..... -	1	1	8	3
7. M.Sc. Botany	..... -	1	1	6	4
Total:	..... 1	7	5	68	42

1. Department of Commerce:

It was noted that the college is one of the oldest institutions offering courses. B.Com was started in 1940.

The M.Com course was introduced in the college in the year 1972. Sanctioned intake is -15 per year. The number during 1970-77 is - 30. This department consistently secured good results throughout in M.Com Examinations.

The pass percentage varied between 86% to 100% during the period 1973-74 to 1975-76. This department has a library with 1973 volumes and 5 journals. It is well stocked, especially in the area of business management. Since 1972, the Department has spent Rs.10,000/- on books and Rs.1250/- on journals.

The strength of the teaching staff is 15 which include one Professor, one additional professor, four part-time professors(2 chartered accountants and two practising lawyers) and two tutors. The workload of the department is as indicated below:

Professor 12 hours a week
Additional professor &..... 16 hours a week.
Asstt. professors

The staff is well qualified except for the norms prescribed by the JGC for research qualifications of M.Phil. or Ph.D. degrees.

It was noted that due to administrative difficulties deputation for research is impeded. It was further noted that the members of the staff under forty are deputed for specialised training in cost Accountancy for I.C.W. and Company Secretaryship(A.C.S).

It is recommended that a post of Reader may be sanctioned in the JGC scale, to provide a teacher with research qualifications and to be filled in preferably with teachers with M.Phil. or Ph.D. degrees. Diversification of specialisation between this college and P.S.G. Arts College is recommended.

Recommendations:-

One Reader in the JGC scale (post to be filled in by teachers with research qualifications)	Rs.37,000/- (approx)
Books	Rs.30,000/-
Journals(including back number)....	Rs.20,000/-
Equipment(Calculator etc.)	Rs. 5,000/-
FIP/Guest lectures	Rs. 8,000/-
	<u>Total : Rs. 1,00,000/-</u>

2. Department of Chemistry:-

It was noted that M.Sc. course in Chemistry was

introduced in 1973. There are 24 students in first and second year of the courses with a total teaching staff strength of 13 comprising of one Professor, one Additional professor, 8 asstt. professors and 3 Tutors. The pass percentage during 1974-75 was 60% and during 1975-76, 75%. This department desired assistance towards the purchase of books and equipment, construction of a library hall, faculty improvement and additional staff.

Observations and recommendations:-

Though the Department has been running an M.Sc. course for the past 3 years the library as well as the laboratories are not adequately equipped. At the same time, the proposals given to the Committee by the College included requests for equipment and apparatus (for example a grinding model), which are far beyond the needs of an institution mainly devoted to teaching. While the Committee appreciates the desire for acquiring sophisticated instruments, a consideration of priorities in an ill-equipped institution cannot be ignored. Further, it may be pointed out that Coimbatore has a University Department of Chemistry as well as an Agricultural University which have or are in the process of acquiring most of the modern instruments needed for high quality research work. Young teachers of the Government Arts College must be encouraged to utilise these facilities to the maximum extent possible. Therefore, the accent as far as this institution is concerned, for the present plan period, at any rate must be on apparatus which can be effectively utilised in the teaching programmes of the Department as well as for the research work of a routine nature. Hence, the department may be advised to send a revised list of apparatus and equipment, while granting the amount permissible under this sub-head.

A similar argument may be advanced with regard to improvements in the department library. Since most of the books at present available in the library are old and outdated, the Department may be sanctioned a larger grant than what has been asked for to enable it to acquire an adequate stock of up-to-date books and journals, including back numbers of important journals.

Recommendations:-

Books and journals (including back numbers of volumes)	.....	Rs. 40,000	
Scientific equipment	.....	Rs. 50,000	
FIP/Guest lectures	.....	Rs. 10,000	
Workshop for Science Deptts. including glass blowing (shop & equip)	.....	Rs. 1,00,000	
Total:		<u>Rs. 2,00,000</u>	...8....

3. Department of Physics:-

It was noted that M.Sc. in Physics was started only during 1976-77. The number of seats sanctioned is 10. At present on the staff there are 14 members such as one professor, 4 assistant professors, and 6 Demonstrators. The proposals of the college include : additional posts of one additional professor, one assistant professor , and conversion of one post of Demonstrator to that of an Assistant Professor during 1976-77. One professor proposes to do M.Phil at the University Postgraduate extension Centre , Coimbatore.

There is one library Hall and laboratory for M.Sc. Physics 1st year. There are 10 students for postgraduate course in Physics with a teaching staff strength of 14, comprising of one professor , 7 additional professors, besides 6 tutors . Since the first batch of students are expected to pass out in 1977-78 only , this department does not qualify for assistance at this stage.

4. Department of Zoology:-

The postgraduate course(M.Sc.) in Zoology was started in 1966-67 . There are 26 students for M.Sc. in Zoology with a teaching staff of 13 comprising of one professor one additional professor , 3 assistant professors and 3 tutors. Out of these , two are Ph.D. holders and one is M.Sc. by research. Four assistant Professors have registered for part-time research leading to Ph.D. and have research experience between 2/3 years . The teachers have some experience in guiding research of M.Sc. students for dissertations. This Department offers endocrinology as a special paper. Seven students of this Department have secured first class for the M.Sc. final examination held in May , 1976 and the remaining secured second class. The college has also secured first , third and fourth ranks in the examination held in 1976 for M.Sc. Zoology. The Department has a library , laboratory and other facilities. The average pass percentage during the last 5 years (1971-72 to 1975-76) was 95 %.

Recommendations: & observations:-

This is the only college providing instructions for M.Sc. in Zoology at Coimbatore. The library is outdated . Nearly half of the volumes are only of historical interest. The Department is badly in need of research journals particularly in the field of endocrinology. It would be advisable to acquire back volumes journals and as many as reference books and text-books published recently. The Committee found that the Department has

already adequate space. There is need for promoting more research in the Department.

Recommendations:-

Library Books and journals including back numbers.	....Rs.90,000
Equipment	....Rs.25,000
FIP/Guest lectures	....Rs.10,000
Animal House (Equipment and building)	... Rs.25,000
Total :	<u>..Rs.1,50,000</u>

5. Department of Mathematics:-

The post graduate course in Mathematics was started in the year 1969-70. There are 20 students with a staff strength of 17 comprising of one senior professor one professor and 15 additional professors . The pass percentage during the last 5 years varied between 40% and 70%. The library needs to be strengthened. Calculators and a typewriter with mathematical symbols may be provided.

Recommendations:-

Books and journals (incl.back numbers)	..... Rs.65,000
Equipment including Typewriter with Mathematical symbols and calculators.	.....Rs.25,000 Rs.10,000*
FIP/Guest lectures*	<u>Total : Rs.1,00,000</u>

6. Department of Botany:-

This Department has 24 students (for 1st and 2nd year) and a teaching staff strength of 12 comprising of one Professor , one Additional professor, 6 Assistant professors and 4 tutors. The postgraduate departments are accommodated in two laboratories-cum-lecture halls. The average pass percentage for the past 5 years (1971-72 to 1975-76) was 81 %.

Recommendations & Observations:-

The Department of Botany has a library fairly adequate to cater to the needs of the M.Sc. students. The library is further to be strengthened with more current journals and back numbers . There is no member on the staff with a Ph.D. or M.Phil. degree or with

research experience which is indeed sad. Urgent steps may be taken to provide persons with adequate research experience on the staff and to depute some of them for research.

Recommendations:-

Herbarium	.....	Rs.25,000
Books and journals (including back numbers)	.....	Rs.75,000
Equipment	.....	Rs.40,000
FIP/Guest lectures	.....	Rs.10,000

Total	.....	<u>Rs.1,50,000</u>

7. Department of English:-

M.A. Course in English was introduced in 1966-67. This department has 40 students with a teaching staff strength of 34, comprising of one professor, one additional professor, 17 assistant professors and 15 tutors for both undergraduate and postgraduate classes. This Department has got a separate library and book bank. There are 2,532 books in the library. In co-operation with the Physics Department this Department uses the Audio-visual aid for teaching subjects in general and linguistics in particular. Library needs to be strengthened.

Recommendations:-

Library books (for books in the area of modern literature, American Literature and Indian Writings in English)	....	Rs.50,000
Back Volumes of journals and current periodicals.	....	Rs.25,000
FIP/Guest lecturers	....	Rs.10,000

Total :	....	<u>Rs. 85,000</u>

General Observations:-

Government Arts college has, as many as 7 post-graduate departments and seems to be in need of additional buildings, books, equipment and periodicals but nothing is more important than attention to the improvement of Faculty. As a Government institution, it is subject to periodical transfers of its teachers though the periodicity may vary but to transfer them on one for one basis may

seriously affect the quality of postgraduate instructions which calls for specialisation. In addition to acquiring teachers with research qualifications, the Committee recommends that a considerable number of promising young teachers should first be encouraged to acquire the first research degree of M.Phil., while senior teachers with research degrees should be given facilities to pursue higher research and publication on their own.

Acknowledgement:-

The Committee records its gratefulness to the Principal, Heads of the Departments and other authorities of the college for the facilities and co-operation extended to it during its visit to the college.

Sd/-

1. C.D.Narasimhaiah
2. E.S.Rajagopal
3. K.T.Ramakrishna
4. K.G.Adiyodi
5. N.R.Krishnaswamy
6. Sp. Shanmuganathan
7. S.Ramamurthy.

Confidential

UNIVERSITY GRANTS COMMISSION

49

Meeting :

Date : 21st February, 1977

Item No. 11 To consider the recommendations of the National Seminar on Correspondence Education held at Panjabi University, Patiala.

51-54 The National Seminar on Correspondence Education sponsored by the Indian University Association for Continuing Education was held at Panjabi University, Patiala, October 4-6, 1976. It had 23 participants from 17 universities. The recommendations made at the Seminar are generally in line with our guidelines formulated for processing the proposals received from the universities for the introduction of Correspondence Courses. A copy of the recommendations made at the Seminar is enclosed (~~Annexure-A~~)*

The main recommendations of the seminar are summarised below:

1. There should be periodical reviews of Correspondence Courses Institutes.
2. The universities concerned and the U.G.C. should ensure that a proper survey of the needs of the area is carried out before allowing the establishment of a new Institute of Correspondence Courses.
3. Universities which do not offer Correspondence Courses should explore the possibility of using course material of other universities which have correspondence course institutes.
4. Each Department in the Correspondence Courses Institutes should be headed by a Reader and have two to three lecturers. There should be provision for senior positions also in subjects where postgraduate correspondence courses have been instituted.
5. Regular and frequent workshops/seminars/Conferences etc. should be organised for the training and updating of Correspondence Courses teachers.
6. The course material for the postgraduate students should be fairly comprehensive and not just in the form of guidelines.
7. Surpluses of Correspondence Courses Institutes, if any, should be used for the development and streamlining of correspondence courses and not diverted to general university funds.

p.t.o.

Confidential

UNIVERSITY GRANTS COMMISSION

49

Meeting:

Date : 21st February, 1977

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51-54
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2. The universities concerned and the U.G.C. should ensure that a proper survey of the needs of the area is carried out before allowing the establishment of a new Institute of Correspondence Courses.
3. Universities which do not offer Correspondence Courses should explore the possibility of using course material of other universities which have correspondence course institutes.
4. Each Department in the Correspondence Courses Institutes should be headed by a Reader and have two to three lecturers. There should be provision for senior positions also in subjects where postgraduate correspondence courses have been instituted.
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6. The course material for the postgraduate students should be fairly comprehensive and not just in the form of guidelines.
7. Surpluses of Correspondence Courses Institutes, if any, should be used for the development and streamlining of correspondence courses and not diverted to general university funds.

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50

8. Central Government and the State Governments should be requested that the students of Correspondence Courses who come from weaker sections of society should be treated at par with such students of regular colleges or universities and the same facilities of free concessions and scholarships be extended to them also.
9. Efforts should be made to develop common programmes for students of different correspondence courses institutes in social sciences etc. where there is so much common ground to be covered.
10. The University Grants Commission and allied bodies should be requested to allow the universities offering Correspondence Courses to establish Evaluation and Statistics cells for carrying out research on different aspects of Correspondence education and to collect and compile relevant data.
11. The University Grants Commission should give special grants to the Correspondence Courses Institutes for setting up their own printing units, extension of building and strengthening of library cum-study centres.
12. In order to curb the evil of coaching academies and "teaching shops", the universities should be advised not to throw open their doors indiscriminately to allow all types of candidates to appear privately at the various university examinations.
13. The academic responsibility of running postgraduate correspondence courses should rest with the Directorates/Schools/ Institutes of Correspondence Courses. For this purpose, in terms of the UGC guidelines, the Institutes should constitute subject committees.
14. For teaching at the Personal Contact Programme, the Correspondence Courses institutes should pay Rs.25.00 per period for undergraduate classes and Rs.40.00 per period for postgraduate classes.
15. Correspondence Courses teachers should be governed by government of India rules for working on Sundays or holidays and get compensatory leave in lieu thereof.

The matter is placed before the Commission.

AS(ER)/DS(ER)

Recommendations of the National Seminar on
Correspondence Education held at Punjabi
University, Patiala on October 4-6, 1976.

The Seminar on Correspondence Education sponsored by the Indian University Association for Continuing Education and organised by Professor Bakhshish Singh, at the Punjabi University, Patiala adopted the following recommendations at its final session on October 6, 1976:-

1. There should be periodical reviews of Correspondence Courses Institutes.
2. The Universities concerned and the UGC should ensure that a proper survey of the needs of the area is carried out before allowing the establishment of a new Institute of Correspondence Courses. The proposals of the universities already offering certain correspondence courses for starting new courses should also be examined after carefully assessing the needs of such courses.
3. Correspondence Courses should be broadbased to include job-oriented, inter-disciplinary courses, continuing education courses, in-service training courses in different subjects, as also Technical Courses such as Engineering, Medical etc. The Seminar is of the opinion that Correspondence Courses and Continuing Education courses should form an integrated system.
4. Universities which do not offer Correspondence Courses should explore the possibility of using course material of other universities which have correspondence courses institutes.
5. The Universities having Directorates/Institutes/Schools of Correspondence Courses should have a faculty of Correspondence Education and the Directors/Principals; Readers/Associate Directors/Deputy Directors and Lecturers/Assistant Directors must be treated at par with Professors, Readers and Lecturers respectively for all purposes. The faculty of Correspondence Education should be responsible for the over-all development of Correspondence Courses. The teachers of Correspondence Courses, must be borne on the strength of the Directorate/Institute/School of Correspondance Courses and the posts of

(52)

Junior Lecturers/Instructors/ Tutors should be upgraded and redesignated as Lecturers. The Correspondence Courses Institutes should be treated as full-fledged university departments and the teachers should be designated as Professors, Readers and Lecturers. Each Department in the Correspondence Courses Institutes should be headed by a Reader and have two to three lecturers. There should be provision for senior positions also in subjects where Postgraduate correspondence courses have been instituted.

6. Regular and frequent workshops/seminars/Conferences etc., should be organised for the training and updating of Correspondence Courses teachers.
7. Considering the difficulties of Correspondence courses students in not having access to Library facilities etc., the seminar strongly feels that the course material for the postgraduate students should be fairly comprehensive and not just in the form of guidelines.
8. Surpluses of Correspondence Courses Institutes, if any, should be used for the development and streamlining of correspondence courses and not diverted to general university funds.
9. Central Government and the State Governments should be requested that the students of Correspondence Courses who come from weaker sections of society should be treated at par with such students of regular colleges or universities and the same facilities of fee concessions and scholarships be extended to them also.
10. The University Grants Commission and the Indian University Association for Continuing Education should request the Ministry of Information and Broadcasting to extend Radio/TV programmes for correspondence Courses students. Efforts should be made to develop common programmes for students of different correspondence courses institutes in social sciences etc., where there is so much common ground to be covered.
11. The University Grants Commission should give special grants to the Correspondence Courses Institutes for setting up their own printing units, extension of buildings and strengthening of library cum-study-centres.

12. The University Grants Commission and allied bodies should be requested to allow the Universities offering Correspondence Courses to establish Evaluation and Statistics cells for carrying out research on different aspects of Correspondence education and to collect and compile relevant data.
13. In order to curb the evil of coaching academies and "teaching shops", the Universities should be advised not to throw open their doors indiscriminately to allow all types of candidates to appear privately at the various University examinations.
14. Having considered the UGC guidelines for correspondence Courses at the post-graduate level and in the light of the experience of the Institutes running postgraduate correspondence Courses, the National Seminar strongly recommends that the academic responsibility of running postgraduate correspondence courses should rest with the Directorates/Schools/Institutes of Correspondence Courses. For this purpose, in terms of the UGC guidelines, the Institutes should constitute subject committees comprising:
 - i) Representatives of the University teaching departments concerned.
 - ii) Representatives of the Directorate/Institutes/School of Correspondence Courses.
 - iii) Representatives of the teachers working in post-graduate colleges.

The Director should be the Convener of the Subject Committees.

15. For teaching at the Personal Contact Programme the Correspondence Courses institutes should pay Rs. 25.00 per period for undergraduate classes and Rs. 40.00 per period of postgraduate classes.
16. Correspondence Courses teachers should be governed by Government of India rules for working on Sundays or holidays and get compensatory leave in lieu thereof.

(54)

- 17 A National Council for Correspondence Education be formed in order to ensure proper coordination, systematic expansion and streamlining of the Correspondence method of imparting education in the country. The National Council should also bring out a Journal on Correspondence Education to acquaint the correspondence educators in India with the latest trends and research on correspondence education.

October 6, 1976.

Sd/-
(Bakshish Singh)
Director
National Seminar on Correspondence
Education,
Panjabi University, Patiala.

55

UNIVERSITY GRANTS COMMISSION

CONFIDENTIAL

Meeting :

Dated : 21st February, 1977.

Item No.12:- To consider a reference from the Indian National Science Academy, New Delhi regarding establishment of professional chairs to commemorate the services of distinguished scientists.

The Indian National Science Academy, New Delhi has sent a proposal regarding the establishment of four professional chairs at the national level to commemorate the services of distinguished scientists i.e. (1) Prof. Homi J. Bhabha, (2) Prof. C.V. Raman, (3) Sir K.S. Krishnan and (4) Prof. S.N. Bose. An extract from the letter received from the Indian National Science Academy is reproduced below:-

"Recently at a meeting of the National Committee for U.G.C. a suggestion was made that four professional chairs at national level may be established in the Academy to commemorate the services of the distinguished Indian scientists - Prof. Homi J. Bhabha, Prof. C.V. Raman, Sir K.S. Krishnan and Prof. S.N. Bose. The matter was discussed at the recent meeting of the Council of the Academy. In view of the fact that the Academy has already instituted medals to commemorate the services of these distinguished scientists, the Council was of the view that this proposal be referred to the University Grants Commission for their consideration.

I shall be grateful if you will kindly have the matter considered by the Commission and let us know the decision in due course".

The matter is placed before the Commission for consideration.

AS (GP) / DS (GP)

UNIVERSITY GRANTS COMMISSION

CONFIDENTIAL

Meeting:

Date : 21st February, 1977.

Item No. 13: To consider the following proposals received from Aligarh Muslim University for additional assistance during the V Plan period -

(56)

- a) Assistance for staff, books and building for the department of Statistics.
- b) Creation of two posts of Physical Instructors in the Women's College.
- c) Construction of hostel for 600 students.
- d) Assistance for Scholarships.

a) Assistance for staff, books and building for the department of Statistics.

The Fifth Plan Visiting Committee to Aligarh Muslim University recommended the following assistance for the Department of Statistics which was set up as an independent department in 1975:

(i) Recurring

Priority

	I	II	III
Professor ..	1	-	-
Reader ..	-	1	-
Lecturer ..	2	-	-
Any other ..	1	-	-
	<hr/> 4	<hr/> 1	<hr/> -

(ii) Non-Recurring

Books & Journals ..	0.30	0.20	0.10
Building ..	-	3.00	1.00
Equipment ..	0.50	0.25	0.25
Total:	<hr/> 0.80	<hr/> 3.45	<hr/> 1.35

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(51)

- 2 -

The Commission at its meeting in October, 1975 accepted the recommendations of the Visiting Committee and approved the posts recommended by the Visiting Committee under I & II priorities and grants for books and equipment recommended under first priority.

The university has now requested that following additional assistance over and above already approved may be provided to the department of Statistics during the Fifth Plan period:

- i) Post of one Lecturer in Statistics in the Women's College.
- ii) Two posts of Senior Investigators to guide and help the postgraduate students in the field work courses which are essential for practical training in collection, compilation and processing of data.
- iii) An ad-hoc grant of Rs.1,00,000 for essential books and journals
- iv) Assistance for an additional built up area of 8,000 sq.ft. as the present accommodation available to the Department of Statistics is extremely inadequate.

A copy of the letter received from the University
61 is at appendix-I. Extract from the report of the Visiting
Committee in respect of the Department of Statistics and
@p 62-63 Women's College are at Appendix-II. @

b) Creation of two posts of Physical Instructors
in the Women's College.

The Aligarh Muslim University has approached the Commission for the creation of two posts of Physical Instructors in the Women's College of the University. The University has stated that one Physical Directress was appointed in the Women's College for physical training of the girl students in the past when the strength of students was only about 200. The strength of students has now gone up to 1,000 and it is felt that one physical Directress is insufficient for the physical training of 1,000 students and to organise sports and games both in the morning and evening. The university has requested the Commission for its approval for the creation of two posts of Physical Instructors for the college in the pay scale of Rs.700-1600.

p.t.c.



c) Construction of hostel for 600 students.

The Aligarh Muslim University has requested for the approval of the Commission for the construction of a Hostel for 600 students. The University has stated that the residential accommodation required for students is very acute. The University is a residential university and the proportion of resident and non-resident students should be at least 75% to 25%. The actual percentage of residence is 55%. In order to ease the situation, the university proposes to build a hall of residence for 600 students. The Visiting Committee in its report has recommended for the construction of an Administrative Block. In case the Commission approves the construction of an Administrative Block, the accommodation at present available where the offices are housed will become available for residential purposes providing accommodation to 120 students. Thus the minimum requirements for a Hall will be for 480 students for which the proposed estimates work out to about Rs.86 lakhs.

A copy of the note on Hall of residence received from the university is enclosed (Appendix-III).* An extract from the Visiting Committee in respect of Halls of residence is also attached (Appendix-IV).@ The Commission has not approved any assistance to the university for hostel during the V Plan period.

d) Assistance for Scholarships

The Aligarh Muslim University appointed a sub-committee to consider the question for revising the number and value of scholarships being awarded to the students at various levels. The academic council and executive council of the university generally accepted the recommendations of this committee and the finance committee while noting the decision of the executive council desired that the proposal may be considered by the UGC under the V Plan proposals. The details of merit scholarships and studentships which are proposed to be made effective from academic session 1973-74 are given below:

S.No.	Stage	No. of Scholarships	Expenditure per annum Rs.
1.	P.U.C.	30	5,995
2.	Degree	77	73,670

p. t. o.

(59)

3.	Postgraduate	235	2,48,696
4.	Scholarships to Girls at PUC level	4	1,100
5.	Scholarship for B.Sc.(Hons.)	8	" 2,640
6.	Junior Research Fellowships	50	7,00,000
Total:		<u>404</u>	Total: <u>10,32,101</u>

p 66-69 As the University proposes to make the revised rates effective from academic session 1973-74, the total expenditure during V Plan would be about Rs.61.92 lakhs for six years. A copy of the letter received from the University is enclosed (Appendix-V). It may be mentioned that the Commission has already allocated 40 junior research fellowships to the Aligarh Muslim University during the V Plan period to be awarded as follows:

- (a) 10 fellowships to be reserved for candidates belonging to scheduled castes and scheduled tribes.
- (b) 10 fellowships be reserved for candidates belonging to the backward and weaker section of society and students from States such as Manipur, Nagaland and other backward and under-developed States of the country.
- (c) 2 fellowships be reserved for non-muslims for pursuing research in Islamic Philosophy.
- (d) 2 fellowships be reserved for muslims for pursuing research in Sanskrit;
- (e) 16 fellowships be awarded on an All India basis for pursuing research in other disciplines ensuring that at least 50% of fellowships are awarded to candidates from Universities in States other than U.P.

The ceiling of assistance during the V Plan period for Aligarh Muslim University is Rs.250 lakhs. The Commission has so far approved a total grant of Rs.169.60 lakhs to the university which does not include assistance



recommended by the Visiting Committee for books and equipment under II and III priorities. The financial implications of the proposals made now by the University will be Rs.153.22 lakhs (for a) Rs.4.80 lakhs; for b) Rs.0.5 lakh, for c) Rs.86.00 lakhs and for d) Rs.61.92 lakhs for six years).

The proposals of Aligarh Muslim University are placed before the Commission for consideration.

AS/DS(D-2)

Copy of letter No.DC/74/76 dated 14-10-1976 received from the Office of the Registrar (Development Section) AMU, Aligarh addressed to the Secretary, UGC, New Delhi regarding V Five Year Plan - AMU, Department of Statistics - Additional requirements of.

41

This kindly refers to your letter No.F.1-7/75(D-2a) dated 21.2.1976 conveying the sanction of the Commission of the proposals of the University on the recommendation of the Visiting Committee under the V Five Year Plan.

I am directed to say as under:

1. That there is no post of lecturer in Statistics at the University Women's College where the subject is taught.

A post of Lecturer may, therefore, kindly be sanctioned for the University Women's College in Statistics;

2. That Senior Field Investigators are required to guide and help the Postgraduate students in the field work courses which are essential for practical training in collection, compilation and processing of data.
3. Two posts of senior Field Investigators may, therefore, kindly be sanctioned.
3. That the Department of Statistics has been bifurcated from the Department of Mathematics and established separately only in 1975, no moderate library of essential books and journals of statistics of its own exists to build up which is so essential for a full-fledged Department.

It is, therefore, requested that the U.G.C. may be pleased to sanction an Adhoc grant of Rs.one lakh for it.

4. That the present accommodation available to the Department of Statistics was found extremely inadequate by the Visiting Committee which recommended an additional built-in area of 8,000 sq.ft. but the U.G.C. could not find its way to approve of it.

It is, therefore, requested that the Commission may please be to reconsider the matter and keeping the dire need of the Department in view sanction the aforesaid built-in area for the Department.

Extract from the Report of the
Visiting Committee

(42)

Department of Statistics:

1. The Department of Statistics which earlier used to be a part of Mathematics department was established as an independent department in 1975. It offers courses leading to the degrees of B.Sc., M.Sc. and Ph.D. and diploma in Statistics. The student enrolment during 1974-75 was Diploma - 22, B.Sc. - 62, M.Sc. - 42, and Ph.D. - 15. The faculty includes 2 Readers and 6 Lecturers.
2. The research activities are in Statistical Inference; Non-parametric methods; Non Linear Programming; Information theory and Stochastic processes. Except for 3 Lecturers, the remaining faculty possess research qualifications. During 1966-74, 3 Ph.D. degrees were awarded and 10 research papers were published. During Fifth Plan it is proposed to consolidate the activities of the department.
3. The Department of Statistics is presently housed in a wing of the building of the Department of Mathematics. The space and other facilities are extremely inadequate. The Department needs to be strengthened in order to consolidate its activities during the 5th Plan. The Committee recommends provision for building faculty, books, journals and equipment etc.

WOMEN'S COLLEGE

1. Background

The Aligarh Muslim University Women's College was established in 1907 as a Primary School by Dr. Shaikh Mohammad Abdullah, a pioneer of Women's Education in India. This school was subsequently upgraded as a High school in 1921, as an Intermediate College in 1923 and as a Degree College in 1957 and has since been regarded as a maintained institution of the University.

2. Courses and Level of Instruction

The courses offered by the college and the level of instruction are given below:

<u>Courses</u>	<u>Levels of Instruction</u>
Science: Physics, Chemistry, Botany, Zoology, Mathematics, Home Science, Geography	Pre-university, Pre-Medical & B.Sc.(Honours)

63

Courses

Levels of Instruction

Arts:	Arabic, English, Hindi, Linguistics, Persian, Philosophy, Sanskrit, Urdu, Fine Arts, Theology.	Pre-university and B.A. (Honours)
<u>Social Science:</u>	Economics, Education, Islamic Studies, Political Science, Psychology.	Pre-university and B.A. (Honours)

A Note on Hall of Residence

HALES OF RESIDENCE

The accommodation situation for students in this University has deteriorated very considerably. The Aligarh Muslim University is a residential institution but the residential proportion has declined to about 55%. By counting the so-called attached borders as actual in-mates of hostels, which they are not, the residential proportion is camouflaged and shown as round 65%. The actual proportion, however, is 55% and is bound to decline as admissions increase however slowly. It should be noted that for the past two years the University has kept a very tight rein on admissions and numbers admitted have not been allowed to increase despite the immense increase in the popularity of the University as judged by the applications for admissions which have gone up from about 16,000 in 1975 to 20,000 in 1976 - an increase of 25% in one year.

It is, therefore, of the utmost importance that hostel accommodation be provided in order to restore the residential proportion to a reasonable figure such as 75%.

The Visiting U.G.C. Committee has already recommended additional accommodation for 150 students. But this accommodation was not finally sanctioned by the UGC. This accommodation falls far short of any reasonable requirements. The minimum need of the University is accommodation for 600 students so as to raise the number of hostel in-mates from approximately 5,500 to 6,100, a rise of the residential ratio approximately from 55% to 61%.

An estimate of additional accommodation for 600 students in a new Hall of Residence has been prepared. This amounts to Rs.1,04,28,000 (information enclosed).

However, as at present the University's administrative offices are keeping space in a Hall of Residence (Sir Syed Hall) equivalent to the accommodation for 120 students. This space would be released for students if an Administrative Block already approved by the Visiting Committee for the Fifth Plan, is built. In that case the net additional requirements for hostel accommodation for students would only be (600 - 120 = 480 students). An estimate for this accommodation comes to about Rs.86,00,000/-.

An extract from the Visiting Committee
in respect of Halls of Residence

45

HALLS OF RESIDENCE

1. The main character of the University as stated earlier is teaching and residential. Every student on admission is required to live in a hostel within a hall unless otherwise exempted or enrolled as an attached boarder on non-resident student. It is desirable that number of non-resident students be kept down and that it is not allowed to exceed 25% of the total student strength of the University.

2. At present there are 10 halls of residence in the University - 8 for men and 2 for women students. The number of resident during the session 1974-75 was 5718. There is over-crowding to the enrolment of 839 according to the norms laid down by the University. Pursuant to the recommendations set out earlier for shifting the academic activities of the department of Geography, law and Commerce to the new building for which provision has been made a area not less than 20000 sq.ft. would be released in S.S. Hall for hostel purposes. Further, when an Administration building is set up additional space should be available in S.S. Hall for hostel accommodation. The Committee recommends that a hostel for accommodating about 150 students be built during this plan period and that a sum of Rs.10 lakhs be allotted as a first priority for the purpose. The university has to take all possible steps to contain cost of construction. There present standars are high. A sum of Rs.5.00 lakhs is recommended under 2nd priority.

APPENDIX-V to Item No.13

Copy of letter No.93/D.S dated 30th
December, 1976 received from the Registrar,
AMU, Aligarh addressed to the Secretary,
University Grants Commission, New Delhi
regarding Fifth Five Year Plan - Institution
of Scholarships under -

(46)

I am directed to say that the University authorities had for some time past under consideration the question of rationalisation of University scholarships. To examine this question, the Academic Council appointed a sub-committee and directed that the Committee may collect the information from other Central Universities regarding the number, the value of scholarships awarded to the students. On the basis of this information the Committee made certain recommendations to the Academic Council. The Academic Council endorsed the recommendation and recommended to the Executive Council for raising the number as well as the value of the scholarships. The Finance Committee while noting the decision of the Executive Council, desired that the proposal may be forwarded to the University Grants Commission for consideration under the Fifth Five Year Plan proposals.

2. It is, therefore, requested that the proposal for rationalisation of various University scholarships and increase in the number and value of these scholarships and also institution of certain fellowships and scholarships as given in the Appendix (enclosed) may be placed before the Commission for its approval.

67-69

ENCLOSURE

Aligarh Muslim University, Aligarh

University Merit Scholarships/Studentships
as approved by the Executive Council under its
Resolution No.6 dated 6th March 1974 with
effect from the Academic Session 1973-74

(65)

Name of Scholarship	Class	No. of Sch.	Duration	Value per month
1	2	3	4	5

PRE-UNIVERSITY MERIT SCHOLARSHIP

1. Pre-Uny.Merit Sch.	PUC	1	11 months	30/-
Pre-Uny.Merit Sch.		1	11 "	25/-
2. Gen.Merit Sch.		4	11 "	20/-
" Offering Arabic		4	11 "	20/-
" " Sanskrit		2	11 "	20/-
" " Persian		2	11 "	20/-
3. Gen.Merit Scholarship standing I, II (among Girls)		2	11 "	20/-
Gen.Merit Scholarship offering Physics, Maths.		2	11 "	20/-
Gen.Merit Scholarship Offering Gology		2	11 "	20/-
Gen.Merit Scholarship Offering Biology		2	11 "	25/-
To Girls Student General Merit Scholarship F/O Com.		4	11 "	20/-
Gen. Merit Scholarship Offering Islamic Studies		4	11 "	20/-
		30		

B.A., B.Sc. AND B.COM.SCHOLARSHIP

1. University Merit Sch.	B. A. I	1	33 "	40/-
	B. A. II	1	33 "	30/-
	B. A. III	1	33 "	20/-
2. " Offering Isl.Studies	"	3	33 "	30/-
" " Arabic	"	3	33 "	30/-
" " Sanskrit	"	4	33 "	30/-

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(68)

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University Merit Sch.	B.A.III				
" Offering Isl. Persian	"	2	33 months	30/-	
" " Philosophy	"	1	33 "	30/-	
" " History	"	1	33 "	30/-	
3. University Merit Sch.	B.Com.	1	33 "	40/-	
	"	1	33 "	30/-	
	"	1	33 "	20/-	
4. University Merit Sch.	B.Sc.Hons	1	33 "	40/-	
" " "	"	1	33 "	30/-	
" " "	"	1	33 "	20/-	
" " "	"	6	33 "	30/-	
5. University Merit Sch.	P.M.C.	4	11 "	25/-	
6. University Merit Sch.	B.A.(Boys)	8	33 "	30/-	
" " "	"(Girls)	8	33 "	30/-	
" " "	B.Com.	2	33 "	30/-	
University Merit Sch.C/o	SL.Sc.S BA I	1	33 "	40/-	
" " "	" "II	1	33 "	30/-	
" " "	" "III	1	33 "	20/-	
" " "	" "(Boys)	7	33 "	30/-	
" " "	" "(Boys)	7	33 "	30/-	
" " "	BA(Hons.)				
Offering Political Science		1	33 "	30/-	
Univ.Merit Sch.F/O Sc.	B.SC(Hons)	8	33 "	30/-	
(For Girls)					

POSTGRADUATE SCHOLARSHIPS
(Arts, Social Sciences, Science Commerce, Law and Theology)

1. University Merit Sch.	M.A.	1	22 months	50/-
" " "	M.A.	1	22 "	40/-
" " "	M.A.	1	22 "	30/-
2. " " "	F/o Arts	16	22 "	100/-
		3	22 "	50-40-30/-
3. " " "	F/o So.Sc.	3	22 "	50-40-30/-
" " "	"	14	22 "	100/-
" " "	Science	3	22 "	50-40-30/-
" " "	"	35	22 "	100/-
4. " " "	Commerce	3	22 "	50-40-30/-
" " "	"	3	22 "	100/-
5. " " "	Theology	6	22 "	30/-
" " "	"	2	11 "	100/-

	1	2	3	4	5
6. General University Merit Sch.	Law	2	22 months	100/-	
" " " "	" "	3	22 "	50-40-30/-	
" " " "	" "	5	22 "	50/-	
7. University Merit Sch. F/O Med. BUMMS		5	11 "	50/-	
" " " "	" "	5	11 "	30/-	
8. Studentship		100	10 "	50/-	
" "		30	10 "	30/-	
		<u>231</u>			

9. University Merit Scholarships to be awarded to candidates passing the Diploma in Engg. Examination in Electrical, Mechanical and Civil Engg., obtaining highest percentage of marks and admitted to B.Sc. Engineering. 3 11 " 60/-
10. University Merit Scholarship to be awarded to a candidate passing the B.Sc. Ist Year Examination and obtaining the highest percentage of marks and admitted to B.Sc. Engineering Course 1 11 " 60/-
- 235

- (1) Two scholarships of Rs.25/- P.M. each for girl students offering Physics and Mathematics in the Pre-University Class.
- (2) Two Scholarships of Rs.25/- P.M. each for girl students offering Biology at the Pre-University Class.
- (3) The Committee appointed by the Academic Council had recommended eight University Scholarships of Rs.30/- P.M. each one for each Department in the Faculty of Science and one for Statistics) for students of B.Sc.(Hons). class. Instead of eight scholarships, through typing error, it has been typed as six scholarships.

One Junior Fellowship/Scholarship of the value of Rs.400/- P.M. for first two years and Rs.500/- P.M. for the other two years and Rs.500/- P.M. for the other two years for Ph.D. Course in each of the 50 University Departments of all the Faculties.

Confidential

UNIVERSITY GRANTS COMMISSION

(70)

Meeting:

Dated : February 21, 1977

Item No.14: To consider a proposal from the Magadh University for the change in specialisation of the various posts sanctioned under the Fifth Plan Development Schemes.

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The University Grants Commission's 5th Plan Visiting Committee which examined the 5th Plan Development proposals of the Magadh University recommended the following additional staff for the Departments of Mathematics, Hindi, Ancient Indian History and Asian Studies, Political Science and Applied Economics & Commerce during the 5th Five Year Plan:-

S.No	Name of the Department	No. of posts recommended	Specializations recommended
1.	Mathematics	1- Professor 1- Reader	Operational Research, Statistics or Computer analysis. Computer Science/Bio-Mathematics.
2.	Hindi	1- Professor 1- Reader 1- Lecturer	Literary criticism. Research Methodology. --
3.	<u>Ancient Indian History & Asian Studies:</u>		
	a) Department of Ancient Indian History	1- Professor 1- Reader	Archaeology. Social & Economic History of Ancient India.
	b) Department of Asian Studies	1- Professor 2- Readers 1- Lecturer	South East Asian History. 1. Tibetan Studies. 2. -- --

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71

S.No	Name of the Department	No. of posts recommended	Specializations recommended
4.	Political Science	1- Professor 2- Readers 2- Research Associates	International Politics/or Normative Political Theory 1. Public Administration. 2. International Relations. --
5.	<u>Applied Economics and Commerce:</u>		
	i) Department of Applied Economics.	1- Professor 1- Reader	Applied Economics. --
	ii) Department of Commerce.	1- Professor 1- Reader	Cost Accountancy/Business Management. --

The Commission at its meeting held on 27th & 28th October, 1975 noted the general observations made in the Report of the Visiting Committee and accepted the Report (Item No.23)

The approval of the following additional staff under 1st phase has been conveyed to the Magadh University for the Departments of Mathematics, Hindi, Ancient Indian History and Asian Studies, Political Science, Applied Economics & Commerce during the 5th Plan period:-

Sl No	Name of the Department	No. of posts approved	Specialisation	Remarks
1.	Mathematics	1- Professor 1- Reader	Operational Research/Statistics/ Computer Analysis. Bio-Mathematics/ Computer Science.	
2.	Hindi	1- Professor 1- Reader	Literary Criticism. Prior approval for the specialisation to be sought from the Commission before filling up the post.	
		*1- Lecturer	--	*This post Lecturer & subsequent withdrawn;

(75)

S1 No	Name of the Department	No. of posts approved	Specialisation	Remarks
		*		
3.	Ancient Indian History & Asian Studies.	2- Professor	1. Archaeology 2. South East Asian History.	*One post of Professor subsequently withdrawn.
		2- Readers	1. Social and Economic History of Ancient India. 2. Tibetan Studies.	
4.	Political Science.	1- Professor	Normative Political Theory.	
		1- Reader	Public Administration/ International Relations.	
5.	Applied Economics & Commerce	* 2- Professors	1. Applied Economics 2. Cost Accountancy/ Business Management.	*One post of Professor subsequently withdrawn.
		2- Readers	--	

The Magadh University has now sent a proposal for the change of specialisations in respect of the following posts approved under the 5th Plan Development schemes for the Departments of Mathematics, Hindi, Ancient Indian History & Asian Studies, Political Science, Applied Economics & Commerce:

S.No	Name of the Department	Details of the post	Specialisation approved by the Commission as per the recommendation of the 5th Plan Visiting Committee	Specialisation now proposed by the University
1.	Mathematics	1- Professor	Operational Research/ Statistics/Computer Analysis.	Applied Mathematics.
		1- Reader	Bio-Mathematics/ Computer Science	Pure Mathematics.

73

Sl. No.	Name of the Department	Details of the post	Specialisation approved by the Commission as per the recommendation of the 5th Plan Visiting Committee	Specialisation now proposed by the University
2.	Hindi	1- Professor	Literary Criticism	Criticism.
3.	Ancient Indian History & Asian Studies	1- Reader	Tibotian Studies	Open
4.	Political Science	1- Professor	Normative Political Theory	Public Administration.
		1- Reader	Public Administration/ International relations.	Political Theory.
5.	Applied Economics & Commerce	1- Professor	Cost Accountancy/ Business Management.	Cost Accountancy Management Accountancy

74-76

The present proposal of the University does not involve any additional financial liability on the part of the University Grants Commission. The details of existing staff in all these departments are given at Annexure-I*

77

Necessary extracts from the letter of the Vice-Chancellor Magadh University by way of justification to the above proposal are also enclosed as Annexure-II@

The matter is placed before the Commission for consideration.

A.S.(D-3a)/D.S.(D-3)

Sahani

Magadh University

74

S.No	Name and Qualification	Designation	Area of specialisation
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DEPARTMENT OF MATHEMATICS:

1.	Dr. S. Singh M.A., Ph.D.	Senior University Professor & Head of the Department	Topology, Functional Analysis, Analysis & Foundations of Mathematics (including logic & set theory).
2.	Dr. P. Tiwari M.Sc., Ph.D.	Reader	Algebra, functional analysis & topology.
3.	Dr. S. Visveswaran M.Sc., Ph.D.	Reader	Probability theory & fluid dynamics.
4.	Dr. B.N. Prasad M.A., Ph.D.	Reader	Theory of Number and set theory.
5.	Dr. S.S. Prasad M.Sc., Ph.D.	Lecturer	Mathematical logic, Relativity, non-standard Analysis.
6.	Sri D. Prasad M.Sc.	Lecturer	Differential Geometry, Group theory & Functional Analysis.
7.	Dr. R.L. Prasad M.Sc., Ph.D.	Lecturer	Functional Analysis, Relativity, topology.

DEPARTMENT OF HINDI:

1.	Dr. B.N. Prasad M.A., Ph.D.	Head & Reader	Drama & Hindi Grammar.
2.	Dr. S.N.P. Sinha M.A., Ph.D.	Reader	Hindi Novel.
3.	Dr. Bate Krishna M.A., Ph.D.	Reader	Medieval Hindi Poetry & textual criticism.
4.	Dr. Purnamasi Rai M.A., Ph.D.	Lecturer (in Hindi & Sanskrit)	Medieval Hindi Literature & Indian Poetics.
5.	Dr. S.S. Tiwary M.A., Ph.D.	Lecturer	Linguistics.

(75)

S.No	Name and Qualification	Designation	Area of specialisation
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DEPARTMENT OF MATHEMATICS (contd.)

6.	Dr. R.B. Singh M.A., Ph.D.	Lecturer	Hindi Novel.
7.	Sh. Bansidhar Lal M.A.	Lecturer	Journalism.

DEPARTMENT OF APPLIED ECONOMICS
AND COMMERCE:

1.	Dr. N.C. Agrawal M.Com., Ph.D.	Reader & Head	Management Accounting Industrial Finance.
2.	Dr. L.N. Gupta M.Com., LL.B., Ph.D.	Reader	Accounts & Public Undertaking.
3.	Dr. A.V. Ambastha M.Com., Ph.D.	Reader	Labour.
4.	Dr. B.B. Verma M.Com., M.A., Ph.D.	Reader	Business Administration and Co-operation.
5.	Shri K.P. Singh M.Com.	Lecturer	Industries, Corporation Finance.
6.	Dr. D.M. Prasad M.Com., B.L., Ph.D.	Lecturer	Taxation, Company Law.

DEPARTMENT OF POLITICAL SCIENCE:

1.	Dr. R.C. Prasad M.A., M.D.P.A., Ph.D.	University Professor	Research Methodology, Indian Politics, Political Behaviour, Public Administration, Local Political Systems
2.	Dr. B.K. Jha M.A., Ph.D.	Reader	Political Thought, International Relations
3.	Dr. Vishnu Pd. M.A., Ph.D.	Reader	Public Administration, Constitutional and Administrative Law.

S.No	Name and Qualification	Designation	Area of specialisation
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DEPARTMENT OF POLITICAL SCIENCE (Contd.)

4.	Dr. K.L. Julka M.A., Ph.D.	Lecturer	Political Theory, Theories of International Politics.
5.	Dr. Bidyanand M.A., Ph.D.	Lecturer	International Relations, International Law, Comparative Politics.
6.	Dr. Mahendra Pd. Singh M.A.(Pat.) M.A., Ph.D. (Alberta)	Lecturer	Comparative Politics & Behaviour South Asian (including Indian & Bihar).
7.	M. Shoaib Ahmad	Research Associate S.R.U.	Politics, Political Sociology, Research Methodology.

DEPARTMENT OF ANCIENT INDIAN &
ASIAN STUDIES:

1.	Dr. Upendra Thakur M.A., Ph.D.	Prof. & Head	Indian History & South- East Asia.
2.	Dr. Sachchida Nand Sahay M.A., Ph.D.	Reader	South-East Asia.
3.	Dr. Ramcharitar Pd. Singh M.A., Ph.D.	Reader	Archaeology.
4.	Dr. Binedra Kumar Singh M.A., Ph.D.	Reader	South India & South-East Asia.
5.	Dr. P.C. Roy M.A., Ph.D.	Lecturer	Numismatics.
6.	Dr. Yugal Kishore Mishra M.A., Ph.D.	Lecturer	Archaeology.
7.	Dr. Md. Quique M.A., B.L., Ph.D.	Lecturer	Social Economics History & South-East Asia country
8.	Dr. Artsa Tulku M.A., Ph.D.	Lecturer	Tibatology-Tibetan History.

Extract taken from letter No.V.C.RES/91 dated September 23, 1976 from Prof. P. Dayal, Vice-Chancellor, Magadh University, Bodh Gaya to Prof. Satish Chandra, Chairman, UGC, New Delhi.

77

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Certain changes are also proposed in the specialisation as given by the Commission for various new posts of teachers.

1. Studies in Tibetan is carried under University Department of Ancient Indian and Asian Studies only for a diploma course in Tibetan. It is felt that a new post of Reader for Tibetan Studies in this Department is not needed at this stage. Hence the post meant to be for a Reader in Tibetan Studies may be allowed to be kept open.

2. A minor change is proposed in the specialisation for the post of University Professor in Applied Economics and Commerce. The Commission prescribed cost Accountancy/Business Management as specialisation for this post. The specialisation of Business Management may be substituted by Management Accountancy.

3. The specialisation for the post of Professor in Hindi should be broadened to make it "Criticism" instead of the "Literary Criticism" only.

4. The Department of Mathematics is rather weak in Applied Mathematics. It is therefore proposed that the area of specialisation for the post of University Professor may be made somewhat broader and shown as Applied Mathematics. The post of Reader in Mathematics should carry the specialisation in Pure Mathematics.

5. It is proposed to have "Public Administration" as the specialisation for the post of University Professor and "Political Theory" as specialisation for the post of Reader in the Department of Political Science. This means only an interchange in the specialisation of Reader and Professor respectively as suggested by the Commission.

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UNIVERSITY GRANTS COMMISSION

(78)

Meeting:

Dated : 21st Feb., 1977

Item No.15: To consider the proposal of the Nagpur University regarding faculty positions sanctioned during V Plan.

The Nagpur University has requested for the creation of a post of Reader in Pali and Prakrit or transfer the post of Reader already approved by the Commission for the Department of Foreign Languages and Linguistics in German to the Department of Pali and Prakrit.

On the recommendations of the Visiting Committee, the Commission had approved one post of Reader and two posts of Lecturers in Foreign Languages and Linguistics (Reader in German), and one post of Professor in Home Science (Metabolism).

The University has stated that in the Fifth Plan not even a single teaching post has been sanctioned for the Department of Pali and Prakrit of the Nagpur University. The Department of Pali and Prakrit has at present two posts of Lecturers and the teaching load has, therefore to be shared by appointing contributory teachers. The Department has a long standing of 18 years and need for a post of Reader is imperative. It will also help in doing research work in the Department.

The University has therefore requested for the sanction of one post of Reader for the Department of Pali and Prakrit. In case this is not possible due to financial limitations, the Nagpur University has requested the Commission to permit the University to transfer the post of Reader already sanctioned in the Fifth Five Year Plan for the Department of Foreign Languages and Linguistics (in German) to the Department of Pali and Prakrit. It may be added in this connection that the V Plan Visiting Committee has already recommended one Reader in Pali and Prakrit but that is under Priority III. The matter is placed before the Commission for consideration.

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UNIVERSITY GRANTS COMMISSION

(77)

Meeting:

Dated : 21st February, 1977

Item No. 16 : To consider the proposal of the Jodhpur University for change in Specialization of Faculty positions sanctioned during the V Plan.

The Jodhpur University has requested the Commission for (1) change of Specialization of the post of Reader in Hindi and (2) conversion of one post of Reader in History into that of Professor.

On the recommendation of the Visiting Committee, the Commission ^{had} approved one Reader and One Lecturer with specialization in Linguistics for the Department of Hindi and two Readers (Modern History/History of Rajasthan) for the department of History.

The Jodhpur University has informed inter-alia that the sanctioned strength of the Department of History is 1 Professor 3 Readers and 14 Lecturers and two more Readers have been added by the approval of the UGC. But looking to the size of the Department and the expanded activities both in teaching and research, it is necessary that a post of ~~Professor~~ in the 'History of Rajasthan' be sanctioned instead of Reader in 'History of Rajasthan'. The University has added that the financial implication on this will not be much but the impact on the future development and research activity of the Department is bound to be substantial. The University has stated that the Department of History of the Jodhpur University is one of the popular and biggest departments of the University having all the 3 groups of Indian History in the Post-graduate classes namely Ancient, Medieval and Modern. The department is quite active in the field of research particularly on the History and Culture of Rajasthan, for which abundant source material is available.

As regards the Department of Hindi, the university has stated that there are many practical difficulties in respect of the post of Reader sanctioned by the UGC for

Contd.....2/-

80

Linguistics for the Department of Hindi. The Linguistics course cannot be started unless there is a laboratory for the same, for which enough grant will be required. The list of staff of the Department of History is given as Appendix-I. *p81-82 In the Department of Hindi at M.A. level there are another 3 groups apart from Linguistics namely Natya Vigyan and Patrakarita, Anuvad etc. The University has therefore, requested that the specialization of the post of Reader may be Linguistics/Patrakarita/Natya Vigyan. The list of teachers @ p 83-84 of Department of History is given as Appendix-II @

The proposal is placed before the Commission for consideration.

D.O.(D-4)/D.S.(D-4)

DEPARTMENT OF HISTORY
UNIVERSITY OF JODHPUR

Appendix I to Item No. 16

81

S.No.	Name & Designation	Qualification	M.A. Specialization	Doctorate
1	2	3	4	5
1.	Dr. K.S. Lal, Professor	M.A. D.Phil	Medieval Indian History	Medieval Indian History
2.	Dr. R.P. Vyas, Reader	M.A., Ph.D.	Ancient Indian History	Modern Indian History/ History of Rajasthan
3.	Dr. S.R. Goyal, Reader	M.A., Ph.D.	Ancient Indian History	Ancient Indian History
4.	Dr. P.R. Shah, Reader	M.A. Ph.D.	Ancient Indian History	Modern Indian History.
5.	Dr. P.N. Mathur, Lecturer	M.A., Ph.D.	Modern Indian History	Modern Indian History.
6.	Dr. S.M. Mathur, Lecturer.	M.A., Ph.D.	Modern Indian History	Modern Indian History
7.	Dr. D.N. Asopa, Lecturer.	M.A., Ph.D.	Ancient Indian History	European History
8.	Shri Zahoor Khan, Lecturer.	M.A.	Ancient Indian History	
9.	Dr. D.C. Shukla Lecturer	M.A., Ph.D.	Ancient Indian History	Ancient Indian History/ History of Rajasthan.
10.	Shri M.C. Joshi, Lecturer.	M.A.	Ancient Indian History	
11.	Mrs. Tara Mangal, Lecturer.	M.A.	Ancient Indian History	-
12.	Dr. (Mrs.) Frem Angrish, Lecturer	M.A., Ph.D.	Ancient Indian History	Modern Indian History/ History of Rajasthan

65

1	2	3	4	5
13.	Mrs. B.N. Benjamin, Lecturer.	M.A.	Ancient Indian History	-
14.	Shri Pukh Raj Arya Lecturer.	M.A.	Ancient Modern Indian History	-
15.	Mrs. S. Bhattacharyo, Lecturer	M.A.	Medieval & Modern Indian History (composite group)	
16.	Shri N.L. Joshi, Lecturer.	M.A.	Ancient Indian History	
17.	Shri P.K. Kapil, Lecturer.	M.A.	Ancient and Modern Indian History	
18.	Dr. S.K. Purohit, Lecturer.	M.A., Ph.D.	Ancient Indian History	Ancient Indian History
19.	Shri N.K. Sharma, Lecturer.	M.A.	Ancient Indian History	
20.	Shri Anam Mukerjee, B.A.	M.A.	Ancient Indian History	

क्रम-संख्या	नाम	योग्यता	पद	विशेषता
1.	डा० जितयानन्द शर्मा	एम० ए०, पी० एच०डी०, डी०एलिट्० (हिन्दी संस्कृत)	रोडर, अध्यक्ष	भक्ति काव्य, आधुनिक काव्य संस्कृत, काव्य शास्त्र
2.	डा० इन्दिरा जोशी	एम० ए०, पी० एच०डी०, डी०एलिट्०	रोडर	उपन्यास
3.	डा० जेठन लाल गिजासु	एम० ए०, पी० एच० डी०	रोडर	राजस्थानी
4.	डा० रमा सिंह	एम० ए०, पी० एच० डी०	रोडर	अधकालीन काव्य
5.	डा० जगन् मोश प्रसाद शर्मा	एम० ए०, पी० एच० डी०	रोडर	तुलसी
6.	डा० राजकृष्ण दुग्गड़	एम० ए०, पी० एच० डी०	प्राध्यापक	राजस्थानी
7.	डा० नरपतचन्द्र सिंघवी	एम० ए०, पी० एच० डी०	,,	उपन्यास
8.	डा० वैकट शर्मा	एम० ए०, पी० एच०डी०, डी०एलिट्०	,,	काव्यशास्त्र
9.	श्रीमती हनुमता धर्मव	एम० ए०,	,,	-
10.	डा० राम प्रसाद दाडीच	एम० ए०, पी० एच० डी०,	,,	राजस्थानी
11.	डा० विभला गौड़	एम० ए०, पी० एच०डी०	,,	गीता
12.	डा० भहेन्द्र कुमार जैन	एम० ए०, पी० एच० डी०	,,	उपन्यास
13.	डा० सग्वत्री डागा	एम० ए०, पी० एच०डी०	,,	आधुनिक काव्य
14.	श्री ओंकार स्वरु शर्मा	एम० ए०	,,	-
15.	डा० सूर्य प्रसाद दोक्षित	एम० ए०, पी० एच०डी०, डी०एलिट्०	,,	आधुनिक काव्य, पत्रकारिता
16.	डा० नवलकिशोर मिश्र	एम० ए०, पी० एच०डी०	,,	आधुनिक काव्य
17.	श्रीमती रमा धर्मव	एम० ए०,	,,	-
18.	डा० महावीर सिंह गहलोत	एम० ए०, पी० एच० डी०	,,	सूरदास

(71)

क्र.सं.	नाम	योग्यता	पद	विशेषता
19.	डा० प्रमोदराज मेहता	एम० ए०, पी० एच०डी०	प्राध्यापक	राजस्थानी
20.	डा० वैदिकर शर्मा	एम० ए०, पी० एच० डी०	,,	सूरदास
21.	डा० शाकलभान कवियार	एम० ए०, पी० एच०डी०	,,	राजस्थानी
22.	श्री चेतन प्रकाश पाटनी	एम० ए०, हिन्दी, अंग्रेजी विशारद (संस्कृत.)	,,	अनुवाद
23.	डा० विमल कन्ठ सिन्हा	एम० ए०, पी० एच० डी०,	,,	रा प्रकाव्य
24.	डा० सोहनभान चरण	एम० ए०, पी० एच० डी०	,,	लोक-साहित्य, राजस्थानी, अपभ्रंश
25.	श्री पूर्णदास	एम० ए०, हिन्दी, संस्कृत शास्त्री, ए० एन	,,	पाठ्यलिचन, तुलसीदास
26.	डा० प्रमोद	एम० ए०, पी० एच० डी०	,,	कथा साहित्य, पत्रकारिता

Confidential

UNIVERSITY GRANTS COMMISSION

85

Meeting:

Date: 21st February, 1977

Item No. 17 To consider the proposal of Punjabi University for conversion of the post of Reader approved in the Department of Political Science in the Fifth Plan period into that of a Professor.

The Vice-Chancellor, Punjabi University has requested that the post of Reader approved in the Fifth Plan period for the Department of Political Science may be converted to that of a Professor. She has indicated that the impression gathered by the Visiting Committee that the post of Professor existed in the department was not quite correct. The Committee took this impression from the provision made for post of Professor in the University Budget for 1975-76 and 1976-77 which in fact had been made in the hope that it would be sanctioned by the University Grants Commission during the Fifth Plan period. The Department of Political Science which was started in 1972 has at present two Readers and two lecturers. The department has started an M.Phil course and in view of this, the University feels that the department should be headed by a Professor. A copy of the letter received from the Vice-Chancellor is attached (Appendix-)*

p87

The Fifth Plan Visiting Committee which visited the University in January, 1975 made the following observations and recommendations with regard to the Department of Political Science.

The Department of Political Science was established in 1973. It provides instructions for M.A. and Ph.D. degree and one year diploma course in (i) Public Relations (ii) Social Welfare Administration and (iii) Urban development and municipal administration. The sanctioned strength of the department is one Professor; two Readers, three Lecturers and one Instructor. Of these, the posts of the Professor and one Lecturer are vacant which should be filled immediately. The department awarded one Ph.D. degree during the fourth plan period. The student enrolment is 3 in M.A., 15 in Diploma in public relations, 18 in diploma in social welfare and 15 in diploma in urban development and municipal administration. One scholar is

p.t.o.

86

registered for Ph.D. degree. The Committee feels that the vacant posts should be filled immediately and further recommends as under:

	<u>Ist Priority.</u>	<u>II Priority</u>	<u>III Priority.</u>
Staff	-	1 Reader	-
	-	1 Lecturer	-
Books & Journals	Rs. 8,000	Rs. 8,000	Rs. 8,000

The Commission has approved the post of one Reader and one Lecturer, and a grant of Rs. 8,000 for Books for the Department of Political Science.

The proposal of the University for conversion of the post of Reader into that of a Professor is placed before the Commission for consideration.

DS(D2)

Appendix to Item No.17

Copy of the letter Do No. 4197/VC
Dated January 22, 1977, received
from Mrs. I.K. Sandhu, Vice-Chan-
cellar, Panjabi University, Patiala,
addressed to the Prof. Satish
Chandra, Chairman, University
Grants Commission.

87

The Department of Political Science of this University was started in 1972 with one post of Reader and two posts of Lecturers. Another post of Reader was created during the following year.

The Department is also running the following three job-oriented diploma courses :-

- a) Social Welfare Administration,
- b) Urban Development and Municipal Administration; and
- c) Public Relations.

Eight colleges affiliated to this University are imparting instructions upto M.A. in the subject. In order to bring about better coordination in the teaching of the subject in various colleges, it was felt that the University Department should be headed by a Professor rather than a Reader. A post of a Professor of Political Science was, therefore, provided in the University Budget for 1975-76 and again for 1976-77 in the hope that it would be sanctioned by the University Grants Commission under the 5th Plan. But it seems that the University Grants Commission's Visiting Committee gathered an impression that a post of Professor already existed in the Department and it accordingly advised the University to fill it up immediately. In place of the post of a Professor, the Visiting Committee recommended for provision of an addition of this new post of a Reader, the staff of the Department will consist of three Readers and no Professor. Keeping in view the urgency for providing a post of Professor to head the Department at this advanced stage of its development, I shall be grateful if the post of Reader in Political Science sanctioned under the V Plan is converted into that of a Professor. This proposal gets added support in view of the fact that the Department has started an M-Phil. Course from the current academic session. I do hope that you will kindly convey us the necessary approval of the Commission in this behalf at a very early date.

With kindest regards,

∟additional post of a Reader for the Department, with the

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

(88)

Meeting :

Dated : 21st February, 1977

Item No, 18 : To consider the proposal of Guru Nanak Dev University for transfer/conversion of some of the teaching posts approved in the fifth plan period and for approval of teaching posts recommended by the fifth plan Visiting Committee under third priority.

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The University Grants Commission has approved posts of 7 professors, 14 readers, and 16 lecturers for various departments at Guru Nanak Dev University during the V plan period as recommended by the V plan Visiting Committee under I & II Priorities. The university has now requested for creation of one post of professor in biology by transfer from political science department and one post of reader in panjabi by transfer from history department and conversion of professor's post in Mathematics department into that of a lecturer. A copy of the letter received from the university in this regard is attached Appendix-I.*

The existing staff strength and the staff approved in the V plan period in the above departments are indicated below

S.No.	Department	Approved staff			Additional staff approved in V Plan		
		P	R	L	P	R	L
1.	Biology	2*	2£	5	-	4	2
2.	Political Science	1	1	2	1	1	1
3.	Panjabi	1	-	3	-	-	-
4.	History	1	-	4	-	2	1
5.	Mathematics	1	1	5	1	-	-

* One Professor on Leave

£ Both are vacant

The relevant extracts from the Visiting Committee report in respect of the above departments are given in Appendix-II. @

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89

- 2 -

* p 96

Guru Nanak Dev University has further requested that the posts of 4 Readers (one each in Hindi and Library Science and two in Panjabi), two lecturers in library science and one deputy librarian recommended by the Visiting Committee under third priority may also be approved. A copy of the letter received from the university in this regard is at Appendix-III. Approximate expenditure during the last two years of the Fifth plan period on the above posts will be about Rs.2.4 lakhs. It may be mentioned in this connection that the university's attention has been invited to the recommendation made by the Visiting Committee that the three departments of Panjabi, Panjabi Language and literature and Guru Nanak Studies be brought under one academic umbrella and the university has been requested to let the Commission know the action taken in this regard before their proposal for approval of two readers' post in panjabi recommended under third priority is considered. Reply from the university is awaited.

The ceiling of assistance for Guru Nanak Dev university is Rs.100 lakhs against which the Commission has already approved schemes involving an expenditure of about Rs.80.74 lakhs which include assistance recommended by the Visiting Committee for books and journals under II and III priorities.

The proposal of the Guru Nanak Dev University is placed before the Commission for consideration.

A.S./D.S.(D-2)

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Appendix I to Item No. 20

Copy of the letter No. ~~PLG/6~~ (UGC)/13663 dated the 15th December, 1976 received from the Registrar, Guru Nanak Dev University, Amritsar addressed to the Secretary, University Grants Commission, New Delhi.

95

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SUB:- Higher Education & Research - Development Schemes of the universities for the Fifth Plan period (1974-79) - Acceptance of the schemes by the Commission Conversion of Teaching posts.

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Kindly refer to your letter No. F.18-1/75(D-2-a) dated 3-4-1976, on the subject cited above.

The University Grants Commission, keeping in view the requirements of the University Teaching Departments has sanctioned the following Teaching posts for Vth Five Year Plan period :-

<u>Departments</u>	<u>No. of posts sanctioned by the U.G.C.</u>		
	<u>Professor</u>	<u>Reader</u>	<u>Lecturer</u>
1. Chemistry	1	1	1
2. Physics	1	2	3
3. Mathematics	1	-	-
4. Biology	-	4	2
5. Economics	-	1	2
6. History	-	2	1
7. Psychology	-	1	-
8. Pol. Science	1	1	1
9. English	1	1	1
10. Laws	1	-	-
11. Sociology	1	1	2
12. Classical, Foreign Indian Languages	-	-	3
Total :	7	14	16

The requirements of the various teaching Departments have been reviewed according to their present needs and it has been decided to convert some of the teaching posts, the detail of which is as under :-

S.No.	Name of the Deptt. for which post sanctioned	Post sanctioned for the Vth Plan	Deptt. for which post to be converted into	Post to be converted into
1.	Pol. Science	Professor - 1	Biology	Professor - 1
2.	History	Reader - 2	Panjabi	Reader - 1
3.	Mathematics	Professor - 1	Maths.	Lecturer - 1

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(91)

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It is, therefore, requested that necessary approval in this respect may kindly be accorded, to enable the University to fill up these posts.

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Mathematics Department :

The committee has noted that the department has one professor, one reader, five lecturers and one research fellow. There are 10 students enrolled for M.Sc. course. The committee therefore, recommends as under :-

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Staff	Professor -1	-	-
Equipment	Rs.50,000	-	-
Books & journals	Rs.50,000	Rs.75,000	Rs.75,000

Biology Department :

The fourth plan visiting committee of the UGC recommended the opening of a department of biology instead of traditional departments of botany and zoology. The department of biology started in 1973. It has two professors (one on leave) and five lecturers. The two posts of readers are vacant. The present head of the department is a plant pathologist. The department has just started functioning, and therefore, it will take some time for the staff to show progress in terms of research. There are 31 students enrolled for B.Sc. (Hons. School) course. The committee therefore, feels that before a school of life sciences is established a substantial amount of research could have been undertaken in some of the aspects of biology.

The committee recommends that besides usual instruments, the university may purchase a preparative ultracentrifuge, a liquid scintillation counter, a good spectrophotometer, a high speed refrigerated centrifuge, a warburg respirometer, an oscilloscope, electrophoresis equipment, a scintillation counter, a few colorimeter and PH meters.

The committee recommends the following :

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Staff	Readers - 4 (Ecology/ Animal Physiology/ Plant Physiology Experimental Embriology/ Biochemistry (Animal)	-	-
	Lecturers - 2 (Plant/ systematics and Genetics)		
Equipment	Rs.2.00 lakhs	Rs.0.50 lakhs	Rs.0.50 lakhs

(93)

Books & journals	Rs.0.50 lakhs	Rs.0.50 lakhs	Rs.0.50 lakhs
Animal House	Rs.1.50 lakhs	-	-

The advertisement for selection of teachers should be so made that specialists having M.Sc. and Ph.D. degree in botany, zoology, microbiology, biochemistry, biophysics, physiology may be recruited.

Department of History :

The department of history, established in 1971, provides instructions and facilities for M.A. and Ph.D. degrees. One professor and four lecturers (including two part-time lecturers). The students enrolment is 32 in M.A. course. The faculty of the department published 12 research papers/books and awarded one Ph.D. degree during the fourth plan period. The department is quite active. The department should offer more options to the students for the M.A. course particularly in economics and social history. The committee makes the following recommendations :

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Staff	2 Readers 1 Lecturer	-	-
Books & journals	Rs.25,000	Rs.25,000	Rs.25,000
Building (Archival Cell)	Rs.1.00 lakh	-	-

Department of Political Science :

The department of political science was established in 1972 and provides courses and facilities for M.A. and Ph.D. degrees. It has one professor, one reader, two lecturers and two research fellows. Three of the teachers possess research degrees. The student enrolment is 23 in M.A. course and two scholars are registered for Ph.D. work. The department has undertaken a project on study of 'autonomy as an issue in India's federal politics'. It proposes to collect, edit and publish the documents pertaining to 'revolutionary movement in the Panjab during the present century'. Instead of teaching the traditional courses which are being taught in the numerous colleges of the university, the department should try to provide leadership in modernising the course of study and introducing innovative

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courses. The committee recommends as under :

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Staff	1 Professor 1 Reader 1 Lecturer	-	-
Books & journals	Rs.25,000	Rs.25,000	Rs.25,000

Department of Punjabi :

The department of Punjabi was established in 1972 for providing M.A. Courses and research facilities. The teaching staff comprises one professor, three lecturers, and one research fellow. There are 40 students in M.A. course and one scholar in Ph.D. The department has published 28 research papers and two books during the fourth plan. The recommendations of the committee are as under :

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Staff	-	-	2 Readers
Books & journals	Rs.20,000	Rs.20,000	Rs.20,000

Department of Punjabi Language, Literature & Culture :

The department of Punjabi Language, literature and culture was established in 1972. It does not impart any courses of study. It has a strength of one professor, one reader and one lecturer and five research assistants. Two of the teachers possess research degrees. The members of the teaching staff have published 14 books and 19 papers during the fourth plan. It is presently guiding two students for the research work. The department has plans to provide instruction in M. Phil pre. Ph.D. courses from 1976, when the school of Punjabi Studies would come into existence.

The committee recommends as under :

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Books & journals	Rs.20,000	Rs.20,000	Rs.20,000

Department of Guru Nanak Studies :

The department of Guru Nanak Studies was established in 1972. It provides undergraduate diploma course in Guru Granth studies. There are one professor, one reader, three lecturers, three research assistants and two research fellows. Four of the teachers possess research degree. The faculty of department have 12 books and 36 research papers to their credit. There are two students enrolled for diploma course and five scholars registered for Ph.D. The committee

95

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recommends as under :

	<u>I Priority</u>	<u>II Priority</u>	<u>III Priority</u>
Books & journals	Rs.20,000	Rs.20,000	Rs.20,000

The Committee feels that attempts should immediately be made to bring the three departments of (i) Panjabi, (ii) Panjabi language, literature and culture and (iii) Guru Nanak Studies under one academic umbrella. If they are to continue to exist as separate units (in one school or institute or centre) they must co-ordinate their activities. A merger of these three departments would, no doubt, be far more desirable

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Copy of the letter No. Plg/6/(UGC)/699
Dated January 28, 1977, received from
Registrar, Guru Nanak Dev University,
Amritsar, addressed to the Secretary,
University Grants Commission.
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(76)

Subject : Higher Education and Research-Development Schemes of the
Universities for the Fifth Five Year Plan Period (1974-79).
Additional Staff.

Dear Sir,

Kindly refer to your D.O. No. F.27-7/73(OP) dated 8.1.1977 addressed
to the Vice-Chancellor of this University, on the subject cited above.

I am to inform you that the following teaching posts were recommended
by the UGC Visiting Committee under IIIrd Priority for the various University
Teaching/Non-Teaching Departments during the Fifth Five Year Plan period:-

Sr. No.	Department	No. of Posts (IIIrd Priority)			
		P.	R.	L.	Others
1.	Hindi (In Linguistics to be shared with Panjabi)	-	1	-	-
2.	Panjabi	-	2	-	-
3.	Library Science	-	1	2	-
4.	Central	-	-	-	1 (Dy. Lib- rarian)

The above posts are required to be filled up immediately to cope with
the increased work load. The Courses of study are also to be modernized and
rationalized, keeping in view the recommendations and suggestions of the UGC
Visiting Committee. The above posts had been determined by the Committee after
examining the requirements and necessity in each individual case.

It is, therefore, requested that necessary approval in this respect may
kindly be accorded, at an early date.

UNIVERSITY GRANTS COMMISSION

97

Meeting:

Dated : 21st February, 1977

Item No.19: To consider a proposal from Burdwan University for additional assistance for Staff, Air-conditioning of Culture Room and Guest House in the Vth Plan period.

The University Grants Commission has so far accepted development proposals of Burdwan University amounting Rs.97.37 lakhs during the Vth plan period against Rs.100 lakhs which is 2/3rd of the tentative allocation of Rs.150/- lakhs fixed for the University for the Fifth plan period.

The Burdwan University had been sending for consideration additional proposals in piece-meal over and above the schemes already accepted by the Commission. The University was, therefore, advised to send the detailed proposals in a consolidated manner with full justification which could be accommodated within the remaining Rs.2.63 lakhs within the allocation of Rs.100 lakhs.

The Burdwan University has accordingly now sent the following proposals and has sought Commission's approval for the same within the over-all fifth plan allocations:-

I Non-Recurring.

<u>S.No.</u>	<u>Project</u>	<u>Estimated cost</u>	<u>Commission's share.</u>
1.	Air conditioning of the culture room of the Department of Zoology.	Rs. 20,000/-	Rs. 20,000/-
2.	Construction of an extension to the University's Guest House	-Rs. 50,000/-	-Rs. 25,000/-
	Total	-Rs. 70,000/-	-Rs. 45,000/-

II. Recurring - Staff

<u>S.No.</u>	<u>Department</u>	<u>Post</u>	<u>Nos.</u>	<u>UGC share for 2 years</u>
1.	Bengali	Reader	1	Rs. 1,54,000
2.	Economics	Reader	1	
3.	Sanskrit	Reader	1	
4.	Library	Lecturer	1	
	Science	Workshop Instructor	1	

Total UGC's share (I & II above) Rs.1,99,000.

(99)

The above proposals were not recommended by the U.G.C. Vth Plan Visiting Committee. A copy of letter dated the 24/29th December, 1976 received from the Registrar, University of Burdwan justifying the need for the above proposals is attached as Annexure.

The matter is placed before the Commission for consideration.

A.S.(D-3(a))/D.S.(D-3)

Annexure to Item No. 19

219

Copy of letter No. RNI/167(75-76)/458 dated the 24/29th December, 1976 from the Registrar, Burdwan University, Burdwan addressed to the Secretary, University Grants Commission, New Delhi, regarding creation of additional posts for consolidation of the teaching in some of the T.G. Departments of the University - 5th Plan Scheme.

I am to invite a reference to your letter No. F.1-20/76(D-3a) dated the 13th August, 1976 wherein savings in the 5th Plan allocation to the tune of Rs. 2.63 lakhs has been intimated with the request to furnish detailed proposals for appropriation of the savings.

After due consideration, it has been decided that the U.G.C. might be approached for creation of the following additional teaching posts under the 5th Plan:

- | | | | |
|----|-------------------------------|---|--|
| 1) | Department of Bengali | : | Reader - 1 |
| 2) | Department of Economics | : | Reader - 1 |
| 3) | Department of Sanskrit | : | Reader - 1 |
| 4) | Department of Library Science | : | Lecturer - 1
Workshop Instructor - 1. |

Justification for creation of these additional posts as intimated by the Heads of the Departments concerned are mentioned in the enclosed statement (Appendix 1A to 1D).

In addition to the teaching posts, two essential items involving capital expenditure are proposed to be provided out of the savings as follows:

- 1) Air-conditioning of Culture Rooms of the Department of Zoology - Estimated amount Rs. 20,000/-

In the 5th Plan, Culture Rooms have been provided in the Zoology Department, but no provision exists for air-conditioning the culture rooms, which is essential for tissue culture and drosophila culture. At present none of the rooms of the Zoology Laboratory is air-conditioned.

- 2) Extension of Guest House - Estimated amount Rs. 50,000/-

The present building which is now being used as Guest House of the University has got only 3 bed rooms, as a result serious inconvenience is being felt for accommodation of V.I.P.s and guests, specially on important occasions. The extension of the present Guest House is,

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150

- 2 -

therefore, unavoidably necessary and hence a sum of Rs.50,000/- is proposed to be provided for construction of additional rooms in the Guest House. On receipt of U.G.C.'s concurrence, detailed estimate for the extension project will be drawn.

The above proposal will involve expenditure which is likely to exceed about Rs.30,000/- over the anticipated surplus of Rs.2.63 lakhs as mentioned in the letter under reference. This excess amount may very well be accommodated against the savings anticipated in the overall 5th Plan allocation.

I would request you to kindly use your good offices to convey sanction of the Commission to the creation of the above mentioned additional teaching posts and also to the provision of funds for air-conditioning of culture rooms of the Zoology Department, and extension of the Guest House of the University.

APPENDIX - 2

DEPARTMENT OF BENGALI

101

Proposed additional teaching posts : Reader - 1

Extract from the letter dated 11.11.76 from the Head of the Department of Bengali justifying the creation of additional teaching post in the Department of Bengali is reproduced below:

"I strongly feel that two senior posts of Readers should immediately be created in the Department of Bengali in the interest of study and research. The creation of these posts may reasonably be justified on the following grounds:

1. The number of sanctioned post of Reader is only one which is the lowest in comparison to other Departments. The research division of my Department has been suffering for a long time for want of adequate number of senior posts.
2. The Department has no full-time teacher of linguistics which is an integral part of our curriculum. As such, stop-gap arrangement for teaching the subject has been made. You would kindly agree that this is not desirable from the academic point of view. Moreover we have made arrangements for research work in Birbhum and Bardwan dialects. A senior Reader with linguistic background will be of immense help in this project.
3. The number of teachers with specialisation in Pre-Modern literature is only one. This is why we have not been able to make satisfactory arrangements for teaching Pre-Modern Literature. So the creation of a senior post in the field is urgently necessary.
4. It is doubtful whether we shall be able to retain the services of six Part-time teachers for long. The U.G.C. Visiting team counted the number of Part-time teachers while determining the staff structure of the Department. If the posts of Part-time teachers are abolished, the void will have to be filled up by at least two full-time teachers. So it is desirable that we should move for full-time teachers well in advance.

The fields of specialisation of the proposed posts of Readers will be as follows:

1. Pre-Modern texts and literature
2. Bengali linguistics"

APPENDIX-IB

DEPARTMENT OF ECONOMICS

Proposed additional teaching posts : Reader - 1

Extract from the letter dated 12.11.76 from the Head of the Department of Economics justifying the creation of additional teaching post in the Department of Economics is reproduced below:

Kindly refer to your D.O. letter. I am very glad to know that you are moving the U.G.C. for the creation of at least one teaching post for the department during the 5th Plan period. As you know, a very serious injustice has been done to the department by the visiting U.G.C. team by not sanctioning the creation of a single post. We asked for the posts of two Readers and two Lecturers in our representation to the U.G.C. visiting team. The reasons had been very clearly stated in our note. It is very unfortunate that the visiting team did not have any Economist in the group. The team did not go through our syllabus, and that is why, such mistatement that "although the department offers facilities in the teaching of Statistics, it does not include any paper on Econometrics, Public Finance and Industrial Economics" could be made by them. In our syllabus we have two hundred marks on Econometrics and fifty marks on Public Finance. Any way, the evaluation, if one may call it an evaluation, was done very perfunctorily and very arbitrarily. And the result was the unmerited injustice that I have mentioned above.

We have a very strong case for the creation of at least two posts - one of a Reader and the other of a Lecturer - in the Department. The grounds are as follows:-

- (1) An expanding department must devote considerable time for research activities, in addition to the normal teaching arrangement. Our research activities, particularly team research work of national and local importance - are very insufficient and the reason is that the senior teachers who could be research guides and research directors are preoccupied with heavy teaching load. They, at present, take 8 lecture classes and two tutorial classes, per week. Naturally enough, the department up till now, is not very inclined to approach U.G.C., IISSR or the Planning Commission for research funds. At present we since can not simply manage these activities, though they are very important and urgent.
- (2) The Burdwan University Economics Department, being located in the most prosperous agricultural and industrial belt of the eastern region, must undertake research on Regional Economic problems. There are very many such problems which need immediate attention from well-trained economists. For this we need more teachers.
- (3) The inadequacy of the number of full-time teachers for teaching compulsory papers of fifty marks each, and four specialised groups, each consisting of six papers of fifty marks (total number of special papers thus comes to twenty four) is reflected by the appointment of seven part-time

103

- 2 -

teachers who have whole-time jobs elsewhere. This is a very unhealthy practice which should forth with be discontinued, but we have to put up with it for obvious reason. This is why, in our original memorandum, we asked for the creation of four posts.

(4) The demand for introducing M.Phil courses is for undergraduate college teachers daily becoming insistent, and since a college teacher is required to have a research degree for crossing the efficiency bar, this demand will have to be met sooner than later. Calcutta and other Universities in the region are admitting only those teachers who are attached to colleges affiliated to those universities.

(5) The field of specialisation for the new posts should be for Reader Regional Economics/Econometrics and Quantitative Economics and for Lecture - Econometrics and Quantitative Economics.

I need not add any more grounds. We think that Economics department has a very strong case for the creation of at least two posts. We have a competent faculty which must be given minimum opportunities for showing their worth in both teaching and research."

APPENDIX - I C

104

DEPARTMENT OF SANSKRIT

Proposed additional teaching posts : Reader - 1

Extract from the letter dated 11.11.76 from the Head of the Department of Sanskrit justifying the creation of additional teaching post in the Department of Sanskrit is reproduced below:-

"We all felt sore that the U.G.C. did not think it necessary to sanction a single teaching post during the 5th Plan period for our Department.

As you are aware the Department has been providing instructions in three special groups, (beside the general papers) viz. Literature and Poetics, Philosophy and the Vedas. The teaching of the last group viz., Veda, suffers very badly as practically there is only one lecturer with specialisation in this subject, Dr. Gopal Nath Bhattacharyya. The other groups have both Readers and Lecturers to do justice to the different special papers in the syllabus. I would, therefore, request you to impress upon the U.G.C. that in the fitness of things and urgent requirements of the Department, the post of a Reader should be created and the field of specialisation should be Vedic studies.

I am sure with your wonderful power of persuasion you will be able to get this post of a Reader sanctioned early so that the teaching in my department may be properly balanced and effective."

APPENDIX 4D

105

DEPARTMENT OF LIBRARY SCIENCE

Proposed additional teaching posts : Lecturer - 1,
Workshop Instructor - 1

Extract from the letter dated 19.6.76 from the Head of the Department of Library Science justifying the creation of additional teaching post in the Department of Library Science is reproduced below:

According to the suggestions of the U.G.C. the Board of Studies in Library Science met and decided to make a thorough change (i) of the syllabus, (ii) of the emphasis on manner of teaching and also (iii) of the mode of evaluation in order to improve and consolidate the teaching of Library Science. As a result the old syllabus which is being followed will be completely superseded and modernised. There can be no dispute regarding the desirability of this move if we want to improve our teaching.

The content of the old and new syllabi are submitted for your perusal, examination and consideration. The salient points may however be summarised in the following way:

In the old syllabus there were eight papers - four of 100 marks each and four of 75 marks each: two practical papers on classification and cataloguing were supplemented by 25 marks each on sessional work and there was a viva-voce carrying 50 marks.

In the new syllabus there are ten written papers each carrying 75 marks and 50 marks for viva-voce, of the 75 marks again, 25 marks have been kept apart for sessional works in 7 papers i.e. on papers on Administration, Classification (Practice), Cataloguing (Practice), Reference, Book-Selection & Systematic Bibliography, Physical Bibliography & Preservation and Documentation.

Needless to say that this arrangement will need much more individual attention to students and larger number of teachers for sharing the work among themselves.

So long the main stress was on theoretical lectures. The view of the Board now is to lay greater emphasis on practical training and practice in different jobs to be performed in libraries. This can be achieved only when facilities for Workshop are provided to students and they may enjoy the facility of constant guidance of a suitable Workshop Instructor, whose theoretical and practical knowledge should give him the status of a teacher and who emoluments should in/case be less than those granted to Demonstrators of the old scale.

The decision to assign separate work to individual students during the session hardly needs any special justification. But this means that

(106)

- 2 -

much time will have to be devoted for preparation of assignments and also evaluating them when they have to be so many and so different. This will be possible only if the staff be suitably strengthened.

The total intake of students in the department is 50. It is necessary that the students should enjoy companionship of their teachers and not more than ten students be allotted to one teacher for guidance and study of their subject. This is why we have suggested that we should have at least five whole time teachers viz. one Professor, one Reader, two Lecturers and one Workshop Instructor. It may be observed that our suggestion is quite in keeping with the recommendation of the First All India Workshop on the methods of teaching and evaluation in Library Science organised under the auspices of the U.G.C. and held in Delhi in May, 1973.

The workshop recommended provision of four teachers one Professor, one Reader and two Lecturers for a group of forty students, i.e. a teacher student ratio of 1:10.

Against five posts required for consolidation of the studies of our department we have only two now (one Reader & one Lecturer). Our demand for the creation of the post of Professor is made on the following grounds:

1. No other department of the university is headed by a teacher holding a lesser rank than that of a professor, so our department will not enjoy status and recognition of other departments so long as it is headed by a Reader.
2. The Board of studies have recommended the taking up of three research projects. It is desirable that these projects should be consolidated ultimately by a Professor.
3. The University has provided funds for the publication of a technical journal for the department. The status of the journal can be achieved more easily when it is edited under the supervision of a Professor.
4. Regular seminars are organised in the department. It is always easier to have important outsiders in such seminars when the request goes from a Professor.
5. Library Science has got great importance in inter-departmental studies. In fact documentation work of every subject may be useful learnt and undertaken with the co-operation of other departments. It can better be appreciated than demonstrated that unless the two Departmental Heads are of the same status, there is a feeling of Patronising rather than that of co-operation. This surely is not helpful for the growth of the department. So the creation of the post of a Professor is absolutely necessary for ensuring departmental co-operation.
6. It is no argument to suggest that the Heads of other P.G. Departments run two-year courses whereas the Head of the Department of

.....

Library Science runs only a one-year course. The Head of any college of Education, which runs one-year course enjoys the status of Professor.

On the above grounds, I request that the Vice-Chancellor may kindly be pleased to move the U.G.C. for the sanction of the additional posts of one Professor, one Lecturer and one Workshop Instructor, for consolidation of studies of this department."

CONFIDENTIAL
UNIVERSITY GRANTS COMMISSION

108

Meeting :

Dated : 21st February, 1977

Item No.20 : To consider a proposal from Rabindra Bharati University for the purchase of a collection of 47 original paintings by Abanindranath Tagore and Gaganendranath Tagore.

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The Vice-Chancellor, Rabindra Bharati University, has proposed that the University Grants Commission may provide a special grant to the University for purchase of a collection of 47 original paintings by Abanindranath Tagore and Gaganendranath Tagore. These paintings from such renowned artists are proposed to be kept in the museum at Jorasanko which contains rare manuscripts and pictures. The cost of these paintings as indicated by the aged daughter of Abanindranath Tagore is Rs.1.5 lakhs, but the University feels that it can bring down the price after proper inspection and valuation. But the University will be in a position to find out about Rs.10,000/- to Rs.15,000/- in this connection from its own resources.

It may be stated that the University has also indicated that it has not been successful in getting any assistance from the State Government for this purpose.

The Fifth Plan requirements of Rabindra Bharati are yet to be assessed by the Commission for the reason that on a request by the University Grants Commission, the State Government has appointed a Review Committee which is reviewing the functioning of the University and this report is awaited.

10-113 A copy of the letter from the Vice-Chancellor, Rabindra Bharati University, alongwith the details of the paintings is attached to the note (Annexure)*. The University has further indicated that for acquiring manuscripts of Tagore, the Commission has similarly assisted the Visva Bharati.

contd.....

109

The Commission at its meeting held on 7th March, 1973 agreed to provide a sum of not exceeding Rs. 1 lakh over and above the 4th Plan allocation to the Visva-Bharati for precuring Tagore manuscripts (Resolution No. 23-II) .

The matter is placed before the Commission for consideration.

D.S.(D-3)

Copy of letter No. VC/25 dated January 18, 1977
from Shri P.C. Gupta, Vice-Chancellor, Rabindra
Bharati University, Calcutta addressed to Shri
R.K. Chhabra, Secretary, U.G.C.

I have got a letter from the grand children of Abanindranath Tagore offering a collection of 47 original paintings by Abanindranath Tagore. I am sending a list they have sent. The collection is priced at Rs. 10,000/- that there is some doubt to inspect the pictures might create an impression. The University has offered Rs. 10,000/- thousand rupees at two points here:

1) There is a valuable collection of manuscripts and pictures. For the development we have of India or the University family which has not made a gift of price. The University worth Rs. 10,000/- University was first of late Kshirodhan

2) Before troubling you I spoke to the Education Commissioner, Government of West Bengal. But it has not been possible to get any assurance from the State Government. Would it be possible for the University Grants Commission to make a present of these pictures to the University in the same way it did to the Visva-Bharati a few years ago when it bought from Mrs. Milada Ganguly a collection of manuscripts of Tagore at a cost of one lac of rupees and made a present to the Tagore Museum there?

(C O P Y)

(111)

6.1.1977

The Vice-Chancellor
Rabindra Bharati University
5, Dwarkanath Tagore Lane
Calcutta-7

Dear Sir,

Our mother, the eldest daughter of Silpaguru Dr. Abanindra Nath Tagore is now 85 years old had a collection of some 47 original paintings of the renowned artist Gaganendra Nath Tagore and Abanindra Nath Tagore. Now paintings are distributed to our sister and brothers. We want to dispose of the whole collection to a single collector where the paintings will have their due appreciation.

So we approach you if you are interested to purchase the above collection. My mother will be very much glad if this collection goes to your University Museum.

The whole collection is priced at ^{Rs. 1, 50, 000.00} (Rupees One lak fifty thousand). List of paintings is attached herewith.

Thanking you and awaiting an early reply.

Yours faithfully,

Sd/-
(Subho Mukherji)
34/1, Beadon Street
Calcutta-6
Phone 35-1489

On behalf of

Sri Nihar Mukherji
Tarak Mukherji
Suleka Mukherji
Arun Mukherji
Biswa Mukherji
Smt. Manika Tagore

(112)

PAINTINGS OF GAGANENDRA NATH TAGORE

No.	Name of picture	Size	Particular	Medium	Remarks
1	Sandhya Pradip	10"x7"	Water colour	On silk	
2	Isha Khan	5½"x3½"	"	Post Card	
3	Flood	8"x5½"	Sketch	Cartridge paper	
4	Bastee at Singhi Began	8"x4¾"	Sketch	"	
5	Masir Bari at Puri	10¾"x8½"	Black & White	"	
6	Arati at Jamuna Ghat Brindaban	15½"x11"	Water colour	Japanese paper	
7	Retiring after Arati Brindaban	-do-	"	"	
8	Arati at Benaras Ghat	13"x11"	"	Cartridge paper	
9	Arati at Brindaban	15½"x11"	"	Japanese paper	
10	Dashasomedh Ghat	11½"x9¾"	Black & white	Cartridge paper	
11	Evening at river bank	15½"x11"	Water colour	Handmade paper	
12	River bank at Sahajatpur	14"x11½"	"	Cartridge paper	
13	Sahajatpore	11½"x10¼"	Black & White	"	
14	Landscape at Ranchi morning	9"x7½"	Water colour	"	
15	Landscape Evening	9"x7½"	"	"	
16	Musouri	10"x8"	"	"	
17	Himalaya	13"x10"	Black & White	Japanese paper	
18	Himalaya	10"x13"	"	"	
19	Sun set at Mount Everest	7"x8½"	Water colour	Cartridge paper	
20	Poet of dreaming	11"x8¼"	"		
21	Two Pandit	9"x6¼"	Colour sketch	Japanese paper	
22	Two Pan'it	9"x6¼"	Black & White	"	
23	Rabindranath & Gagenendranath (Falguni 1st year)	15½"x11"	Water colour Black & White	"	
24	Rabindranath Play	-do-	"	"	
25	Rabindranath Play	-do-	"	"	
26	A scene from Rabindranath play	-do-	Water colour	"	
27	A scene from Rabindranath play	15"x10½"	"	"	

113

PAINTINGS OF ABANINDRA NATH TAGORE

No.	Name of picture	Year	Size	Particular	Medium	Remarks
1	Bishnu & a child	1910	9"x5½"	Water colour	Cartridge paper	
2	Bird after storm	1917	15"x11½"	"	"	
3	Madhabika	1920	11"x7½"	"	"	
4	Ranchi	1924	10"x7"	"	"	
5	Karseong	1926	10"x7"	"	"	
6	Darjeeling	1920	8¼"x6½"	"	"	
7	Karseong Bazar	1924	4½"x3½"	"	"	
8	Karseong	1926	5½"x3½"	"	"	
9	Sun set at Darjeeling	1920	5"x3½"	"	"	
10	Darjeeling	1915	5½"x3¼"	"	"	
11	Darjeeling	1915	5½"x3¼"	"	"	
12	Birds' nest at Darjeeling	1915	5½"x3¼"	"	"	
13	Darjeeling	1920	5¼"x3½"	"	"	
14	Puri	1912	4½"x3½"	"	"	
15	Puri	1910	5"x3"	"	"	
16	Puri	1908	5½"x3½"	"	"	
17	Blessing	-	5¼"x3¼"	"	"	
18	Sketch	1943	4"x2½"	"	"	
19	Portrait of Nalin Chandra Mukherjee	1901	19½"x13½"	Pastle drawing on paper		
20	Portrait of Uma Rani Debi		13½"x12"	" "	on board.	

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

114

Meeting:

Dated : 21st February, 1977

Item No. 21: To consider a proposal from the Bhagalpur University for assistance for the construction of one Men Hostel and one Women Hostel for 100 students each in the 5th plan period.

The University Grants Commission's 5th Plan visiting Committee which examined the 5th Plan requirements of the Bhagalpur University recommended assistance for the construction of one Boys Hostel for 100 students at an estimated cost of Rs. 9,00,000/- (Commission's share being Rs. 4,50,000/-) and one Girls Hostel for 100 students at an estimated cost of Rs. 10,00,000/- (Commission's share being Rs. 7,50,000/-) under 2nd and 3rd priorities, respectively. The Commission, however, in view of the limited resources available with it for the current plan period could not provide any assistance to the Bhagalpur University for the construction of Men Hostel and Women Hostel which had been recommended by the Visiting Committee under 2nd and 3rd priorities, respectively, under phase-I.

The Bhagalpur University has now informed that there are altogether 19 postgraduate Departments in the University imparting instructions to nearly 1600 students. Hardly 10% of the students are local and the vast majority of them come from outside Bhagalpur. The University has only 2 postgraduate hostels for Boys (one of which with 100 students is still under construction) and one for girls with maximum accommodation for 265 students in all. A few more hostels (each accommodating 100 students) are, therefore, immediately needed by the University. The university has further informed that the Bihar State Govt., in view of the pressing needs of the University, have already agreed to meet their share of grants for the construction of additional hostels in case the University Grants Commission sanctions the same. Accordingly, the Bhagalpur University has sent a proposal for the construction of two hostels (one for men and one for women) for 100 students each at an estimated cost of

P.T.O.

(115)

of Rs. 9,25,574 each, as detailed below, and has sought Commission's approval for the same:-

<u>Name of the project</u>	<u>Total estimated cost</u>	<u>UGC's share</u>
	<u>Rs.</u>	<u>Rs.</u>
One Men hostel for 100 students	9,25,574/-	4,62,787/-
One Women hostel for 100 students	9,25,574/-	6,94,181/-
	<u>18,51,148/-</u>	<u>11,56,968/-</u>

It may be mentioned, in this connection, that the Commission has already accepted the 5th plan development proposals of the Bhagalpur University amounting to Rs. 92.89 lakhs against Rs. 100 lakhs which is 2/3rd of the tentative allocation of Rs. 150 lakhs fixed for this University for the current plan period. The remaining allocation is needed by the University for the establishment of centre of Regional Studies. The visiting committee has recommended 2 Readers, 2 Lecturers, 2 Research Associates, 2 Investigators apart from Rs. 25000/- 10000/- for field work, Rs. 10,000/- for equipment and Rs. 1 lakh for accommodation. The Commission has already provided a seed grant of Rs. 25,000/- to the University for this purpose.

It may also be added that the Commission at its meeting held on 20th December, 1976 had observed that "the Commission might find it possible to provide grants for urgently needed Hostels and buildings and additional staff as recommended by the Visiting Committees on the merits of each case" (Resolution No. 29).

The matter is placed before the Commission for consideration.

A.S.(D-3a)/D.S.(D-3)

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

116

Meeting:

Dated : 21st February, 77

Item No. 22 : To consider the proposal of the S.N.D.T. Women's University for grant on the occasion of the Diamond Jubilee of the University.

On the occasion of the Golden Jubilee of the S.N.D.T. Women's University, a grant of Rs.7.50 lakhs was approved by the UGC. This grant had been earmarked by the University as follows:-

- | | |
|---|----------------|
| (i) Development charges of New Campus | Rs.1.00 lakh |
| (ii) Construction of Auditorium at Juhu | Rs.6.50 lakhs. |

A grant of Rs.1.00 lakh sanctioned to the University for Campus development has been fully spent while the Auditorium at Juhu is under construction.

The University has now requested the Commission for a grant of Rs.10 lakhs on the occasion of the Diamond Jubilee which is being celebrated this year. A copy of the letter received from the Vice-Chancellor in this connection is given as Appendix.* The University has already collected a sum of Rs.10 lakh against a target of Rs.25 lakh on the occasion of its Diamond Jubilee.

The matter is placed before the Commission for consideration.

E.O.(D-4)/D.S.(D-4)

Appendix to Item No.22

117

Copy of D.O. letter No.UGC-125/76-77/8857
dated 24/27th December, 1976 from Dr. (Smt.)
Madhuri R. Shah, Vice-Chancellor, S.N.D.T.
Women's University, Bombay addressed to
Prof. Satish Chandra, Chairman, U.G.C., New
Delhi.

The S.N.D.T. Women's University founded in the year 1916, is celebrating its Diamond Jubilee during the current year. The Diamond Jubilee celebrations were inaugurated by our Prime Minister Smt. Indira Gnadhi on December 11, 1976. I understand that the University Grants Commission has decided to give a special grant of Rs.10 lakhs to a University on the occasion of its Diamond Jubilee. The University will be very grateful to the Commission if it agrees to pay the grant of Rs.10 lakhs. I also understand that the UGC will pay further grant over and above Rs.10 lakhs, depending on the amount collected by the University on the occasion of Diamond Jubilee. So far the University has been able to collect a sum of Rs.10 lakhs against its target of 25 lakhs. I shall approach you in the matter in due course. I shall feel very grateful if you will please convey the decision of the Commission in this matter at your earliest convenience.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

(118)

Meeting :

Dated : 21st February, 1977

Item No.23 : To consider the proposal of Dr. B.P. Sinha, for carrying out research on "Chirand Excavations".

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The Panel on History at its meeting held on October 19, 1976 recommended the proposal of Dr. B.P. Sinha, Professor & Head of the Department of Ancient Indian History & Archaeology, Patna University for carrying out research on Chirand Excavations and recommended a grant of Rs.1,25,000 for the purpose. The proposal was accepted and Prof. Sinha was requested to send the detailed budget estimates for three years within the approved ceiling of Rs.1,25,000/-.

Prof. Sinha has sent the budget estimates for 1976-77 (given below) and this includes a provision of Rs.25,000/- for actual excavation work.

BUDGET ESTIMATES FOR 1976-77

1.	Investigator Excavations	...	@ Rs.250/- p.m.	750.00
2.	Labour & other incidental charges for the excavation	...	...	25,000.00
3.	T.A. of staff	...	...	3,000.00
4.	Contingency etc.	...	...	1,200.00
5.	Tents - 3	...	...	10,000.00
6.	Camera - 1	...	...	10,000.00
7.	Excavation Equipments	...	...	5,000.00
8.	Other Expenses	...	...	800.00
Total :-				<u>56,750.00</u>

In this connection it may be mentioned that the Commission at its meeting held on February 10, 1975 considered the recommendation of the History Panel on the question of support for excavation work (Item 28) and decided as follows :

"The Commission accepted the Panel's recommendation that the University Grants Commission will provide academic staff for the purpose of excavation and/or for publication of the report whereas the cost of excavation work will be met by the Archaeological Survey of India. The Commission desired that the proposal of Professor B.B. Lal may be further examined in the light of the above and authorised the Chairman to take action in the matter."

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119

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The above decision of the Commission does not permit expenditure for carrying out digging and other labour charges for excavation. The financial support is limited to academic staff engaged in excavation work, equipment and printing of the report. This was the pattern of assistance provided to Professor B.B. Lal.

Prof. B.P. Sinha's proposal for an expenditure of Rs.25,000/- per year on excavation work is for the consideration of the Commission.

EO-HR/JS(I)

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

120

Meeting :

Dated : 21st February, 1977

Item No.25 : To consider the observations of the Panel in the (a) Humanities, Social Sciences and (b) Science subjects on the guidelines for introduction of M.Phil courses.

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121-123 The Commission, at its meeting held in July, 1976 desired that the guidelines for M. Phil courses Annexure I circulated to the universities may be placed before the Panels for their comments and brought up again before the Commission.

24-129 The M. Phil guidelines were placed before the Panels on English & Foreign Languages, Sociology & Social Anthropology, Psychology, Political Science, Commerce, Law, Philosophy, Social Work Teacher Education, History, Economics, Linguistics and Modern Indian Languages. A summary of the observations and views of these panels on the various aspects of the M. Phil guidelines under appropriate headings is attached as Annexure II.

130-133 The Panel on Sociology and Social Anthropology authorised its Convenor (Professor Yogendra Singh) to prepare a comprehensive note on the M. Phil guidelines. This note has been received and is attached as Annexure III. The observations and comments made in this note are not incorporated in Annexure I.

These guidelines were placed before the Panels in Science subjects except the Panel in Geography which is yet to meet.

134-141
142-144 The observations of the various Panels on the M. Phil guidelines are given in full in Annexure IV (Humanities & Social Sciences) and Annexure V (Science subjects).

The matter is placed before the Commission for consideration.

E.O.(SR-I)/Addl.Secy.

Guidelines for Introduction of M.Phil Courses

OBJECTIVES

- (1) The M.Phil degree should be looked upon as the first research degree whose components will be course work as well as research work. It would provide facilities for undertaking research. Wherever possible, training would be provided in research methodology.
- (ii) The M.Phil degree will also provide an opportunity to candidates to proceed to the second research degree, viz., Ph.D., it being understood that the research work done for M.Phil degree could be incorporated for the research work to be done for the Ph.D. degree. Ordinarily, candidates who desire to pursue research would first be admitted to M.Phil course. Only those will be permitted to proceed for the second research degree (ph.D) as have either obtained an M.Phil degree or have given satisfactory evidence of having attained equivalent level of work.

CONTENT

- (i) The M.Phil students may be required to take (a) A number of courses on advanced topics and research methodology; and (b) Submit a dissertation and/or to undertake project work or design work - the exact proportion of these be decided by the panel of subject concerned, keeping in view the needs of the subject.
- (ii) The M.Phil students may be required to take a number of courses which should normally not exceed four courses to be prescribed by the department concerned. Apart from or in lieu of some of these courses, other courses for the M.Phil may be prescribed according to individual needs. Students may be encouraged to take courses in allied subjects including languages, wherever possible.
- (iii) It is expected that the courses may be designed so that they not only enhance the capacity to take up research but also add to a students understanding of his subject.
- (iv) M.Phil students should be required to attend and participate in at least six seminars to be organised by the department/centre for the purpose of discussing new results or developments in the subject and/or interpretation of data.
- (v) Out of the total credits for M.Phil, about 50% may normally be allocated to dissertations which may include project or design work.

DURATION

The duration of the M.Phil course should be generally two semesters (one academic year) with permission to complete the dissertation subsequently either as a regular candidate or as an ex-student. The duration in which the course work and dissertation should be completed be fixed separately. The course work could be completed in a period not longer than five semesters in all. The semesters should include one successful seminar pertaining to the scholars dissertation.

122

ADMISSION REQUIREMENTS

Admission to the M.Phil programme should be made on the basis of:

- (i) Satisfactory performance at the Master's degree examination and test conducted by the department concerned;
- (ii) Admission recommended by the department concerned shall have to be approved by the Board of Research Studies in the Universities concerned.

EVALUATION

It would be desirable if the course work and the performance at the seminars is evaluated during the duration of the course on a continuous basis. The candidates who may be declared fit for the award of M.Phil. degree would be given grade A or B normally only the students placed in Grade A may be allowed to proceed to work for a Ph.D. degree.

ATTENDANCE

M.Phil students will be required to participate in seminars and lectures during the semesters to the satisfaction of the department concerned which may recommend to the Board of Research studies the removal of the name of students who were irregular in attendance from the M.Phil rolls.

ADMINISTRATION OF THE M.PHIL. DEGREE PROGRAMME.

- (i) M.Phil programme should be instituted in universities having strong teaching departments in the concerned disciplines;
- (ii) M.Phil programme shall be administered by the department concerned through its M.Phil Committee;
- (iii) The M.Phil Committee will:
 - a. recommend students for admission to the M.Phil course.
 - b. draw the syllabus for the courses;
 - c. assign these courses to the concerned teachers of the departments;
 - d. organise seminars,
 - e. to guide in the selection of topic for dissertation research
 - f. Make arrangements for evaluating performance of the M.Phil students at the seminars;.

- g. recommend names of examiners for M.Phil dissertation to the University; dissertation may include in all cases research work such as project or design;
- h. recommend to the university for the award of or otherwise of the degree to the students on the basis of assessment.

123

ACADEMIC STAFF

~~The responsibility~~ of introducing M.Phil courses in the postgraduate teaching department in particular will rest with the department itself on the assumption that the department has the necessary infrastructure for instituting such additional responsibility i.e. having the requisit academic and supporting staff and other physical facilities, such as, library, laboratory etc. Marginal assistance could be provided by the Commission to such departments/introduce M.Phil courses where a certain number of college teachers are accommodated to pursue their M.Phil/Ph.D. programme.

∟ intending to

Comments of the Panels on the Guidelines
for M.Phil Programmes

A summary of the observations and the views of the Panels in the Humanities and Social Sciences on the various aspects of guidelines for the M.Phil Programme are given below under appropriate headings.

(124)

A. OBJECTIVE

1. The Panels on English and Foreign Languages and Linguistics:

The M.Phil degree should be looked upon as the first research degree comprising of course work and research dissertation. Ordinarily candidates who desire to work for the second and (Higher) research degree, namely, Ph.D., may first be admitted to M.Phil course. Only those should be permitted to proceed for Ph.D. who have either obtained M.Phil degree or have given satisfactory evidence of having completed course work and research of an equivalent level. The M.Phil degree will be a terminal degree for those who do not have the ability or aptitude for advanced research for the Ph.D. degree.

The M.Phil degree should not be a necessary condition for admission to Ph.D. although, in most cases, doctoral candidates will have passed the M.Phil degree.

2. Panel on Philosophy:

While the Panel was in general agreement with the guidelines proposed for institution of the M.Phil Courses in the universities it nevertheless felt that there is a possibility of conceiving other types of M.Phil courses oriented more towards the teaching at the collegiate level.

3. Panels on Social Work and History

The Panels generally agreed with the guidelines proposed for the institution of M.Phil course in the universities.

4. Panel on Political Science:

(a) It should be made explicit that M.Phil can serve as a terminal degree also; it should not be treated as preparatory course for the Ph.D. degree.

(b) There should be no necessary linkage between M.Phil/Ph.D. and the now revised grades; otherwise quality of both these degrees would get diluted in the rush of teachers wishing to join M.Phil/Ph.D. courses with which various universities are obviously in a position to cope.

125

5. Panel on Commerce.

(a) M.Phil should be treated as an intermediate degree between postgraduate degree and the Ph.D. degree. It need not necessarily be a qualifying degree for Ph.D. programme.

(b) Its objectives should be (i) to expose the candidate to the frontiers of his own subjects fully and to acquaint him with allied subjects, (ii) to expose a candidate to teaching technology relevant to his subject which in case of commerce students should include a meaningful association with industrial, commercial and agricultural enterprises. (iii) to expose a candidate to research methodology relevant to his subject.

6. Panel on Psychology:

The Panel felt that M.Phil degree need not be a prerequisite course for Ph.D. programme in Psychology. Wherever M.Phil is introduced it should be primarily a content course which would help the teachers of the affiliating college in teaching the subject better.

7. Panel on Teacher Education

The M.Phil degree should not be made a necessary condition for admission to Ph.D. programme. A view was expressed that it may not be necessary to insist on M.Phil programme in case of teachers in teachers' colleges and university department of education in view of the fact that normally, they have two post-graduate degrees, one in basic discipline and the other in education, whereas the requirement for new teacher in a university or a college would be only a postgraduate degree and M.Phil course of one year.

8. Panel on Law.

The Panel was of the opinion that for the Faculty of Law the objective of M.Phil. course should be woven into the LL.M. course which follows the 3 years LL.B. course. The new course being suggested by the workshop for LL.M. amply serves this purpose and, therefore, the Panel feels the LL.M. should be equated to M.Phil and there should be no intermediate degree between the LL.M. and the Ph.D. degrees.

B. DURATION

1. Panel on History.

The panel was in general agreement with the guidelines.

2. Panel on English & Foreign Languages and Linguistics:

126

The minimum duration for the M.Phil course should be 3 semesters. It will not be possible to complete the course work and the dissertation for M.Phil in one academic year or 2 semesters, because a number of courses which will be required for the M.Phil programme will be such as will not have been covered in the M.A. Programme, and it will not be possible to complete all of them in less than one academic year. The duration of the M.Phil course may, therefore, be one academic year of course work followed by one or two semesters which could be given exclusively to the dissertation or the project work.

3. Panel on Political Sciences:

The M.Phil course should remain a whole time course and the teachers wishing to join it should avail themselves of the fellowships which the UGC has made available for the purpose.

4. Panel on Commerce.

The M.Phil should be a whole time course and should not be run on part time basis or through correspondence.

5. Panel on Economics.

Whereas full time M.Phil course were greatly desirable to enable university teachers to attend them, their salaries during the period of study will have to be protected. If for one reason or another this condition cannot be fulfilled 3 summer vacation course should be organised for them and they should be given P.A./and D.A. for attending them. University teachers giving instructions for these courses during vacation should be given special monetary compensation or equivalent leave should be credited to their account.

6. Panel on Teacher Education :

It would be an advantage to institute correspondence-cum-contact programme and regular part-time programme for teachers who wish to enroll themselves for M.Phil courses.

C.CONTENT

1. Panel on English & Foreign Languages:

The M.Phil students should ordinarily be required to undertake (i) advanced course work in a given discipline; (ii) inter-disciplinary studies related to main interest of the scholars; (iii) courses in research methodology; and (iv)

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(127)

dissertation or project. The students may also be encouraged to take courses in allied subjects including languages wherever possible.

2. The programme for M.Phil in Foreign Languages should provide for advanced courses in the following areas of specialisation:-

- a. Literature including stylistic.
- b. Applied Linguistics and Phonetics specifically related to respective languages.
- c. Methodology of teaching of Foreign Language.

(It was noted that candidates admitted to the M.Litt./Ph.D. courses in English at GIEFL were required to pursue postgraduate diploma courses before proceeding to M.Litt. and Ph.D.).

2. Panel on Linguistics:

The M.Phil student should ordinarily be required to undertake (1) advanced course work in a given discipline (2) inter-disciplinary studies related to the main interest of the scholars, (3) courses in research methodology and (4) dissertation or project.

3. Panel on Psychology:

The M.Phil course should include some course in methodology of research to initiate them into research. The course should also emphasise practical skills of communication which are essential for any good teaching in any subject for some Ph.D. candidates. There is need for tailor made courses to suit the individual requirement of the candidate. This course has to be prescribed by the guide for some candidates if he feels that a particular candidate is deficient in certain areas which are absolutely necessary for Ph.D. research.

4. Panel on Economics

The course work in Economics should comprise research methodology, advanced economic analysis, mathematical and statistical techniques and scientific methods.

5. Panel on Modern Indian Languages:

For teachers who will not and cannot proceed to Ph.D. programme the M.Phil degree should have the following components:

- (a) Courses in an advanced knowledge in the special field of a teacher.

- (b) A course on research methodology appropriate to the special interest of the teacher. (128)
- (c) A course on communication and evaluation skills (elements of pedagogy) appropriate for college classes.
- (d) The project work.

6. Panel on Teacher Education:

The M.Phil course is meant for a very large number of teachers in the affiliated colleges, as such it should have the following ingredients:

- (1) An advanced course in the special area of the specialisation of a teacher.
- (2) Elements of research including research methodology.
- (3) Elements of communication and evaluation skills.
- (4) Role of Higher Education and of the university and college teachers in contemporary Society.

D. RELATION BETWEEN M. PHIL AND PH.D.

1. Panel on English & Foreign Languages and Linguistics:

The M.Phil degree should not be a necessary condition for admission to the Ph.D. although in most cases doctoral candidates will have passed the M.Phil degree.

2. Panel on Psychology:

For every Ph.D. candidate M.Phil course need not be insisted on.

3. Panel on Political Science:

Direct registration for Ph.D. should be possible.

4. Panel on Teacher Education:

The M.Phil degree should not be made a necessary condition for admission to the Ph.D. Programme.

(129)

E. MISCELLANEOUS

1. Panel on English & Foreign Languages.

There is no need for a separate committee for M.Phil courses. All universities have a committee which looks after research and advanced studies. The same committee may oversee the M.Phil course.

2. Panel on Economics:

Only teachers with research degree and research guidance experience or published research work of recognised merit should be allowed to handle M.Phil courses. A minimum of 3 teachers would be essential for a department or institution to be recognised for running these courses.

Because of the needs of dissertation and detailed guidance for M.Phil students, there should be a minimum senior teacher student ratio of 1:6.

3. Panel on Modern Indian Languages:

The University should have freedom to devise courses under different categories to suit the requirements of individual teachers.

4. Panel on Commerce:

The UGC should get a book compiled on research methodology relevant to disciplines of different natures after getting suitable methodology evolved through various panels.

5. Panel on Political Science

Stipulation for provision of additional staff by the UGC is necessary if the M.Phil programme is to be taken seriously

6. Panel on History:

1. Competence in the language of the course material should be made a compulsory requirement for M.Phil student in history.
2. The minimum seminars prescribed for the M.Phil course should include one seminar on the subject of dissertation.
3. At least one external examiner should be appointed for evaluating the M.Phil dissertation.
4. The general question of introducing inter-disciplinary studies at the M.Phil level should be explored by the Commission.

A NOTE ON THE INTRODUCTION OF M.PHIL COURSES IN SOCIOLOGY

130

The "Guidelines for the Introduction of M.Phil courses" prepared by the UGC and discussed at the Panel on Sociology and Social Anthropology (on 26.7.76) led to wide-ranging thinking and discussion among the members, and it was considered necessary to prepare a short note highlighting these for a follow up discussion. The important points raised in this connection were as under :-

(1) Objectives of the Course : The implication in the UGC note on M.Phil programme, that it should be seen as "first research degree", was analysed. It was felt that M.Phil course may not always be brought as a homogenous and uniform programme. There may be internal variations in the emphasis of objectives and accordingly the programme may differ from Centre to Centre depending upon faculty specialisation and academic requirement of the course. For instance, in addition to thinking of it as a "first research degree" it could also be thought of as the highest pedagogic degree in the subject concerned. Here the emphasis on the research part of the course or the methodology part would be secondary and latent in the substantive-pedagogic content of the courses which would be primary. There could be yet another type of M.Phil programme oriented especially to inculcate research capacity among the scholars. In this type of programme emphasis would be on the operationalisation of concepts and methods for enabling students to prepare especially for research. Such a programme should have a set of courses offering specializations in research methods and theory construction with suitable training in mathematical-statistical and historiographic skills. The M.Phil programme with these varying emphases would go well with the specialisations of the Department/Centres and for students with varying job requirements such as that of teaching-cum-research and research only. The third type of M.Phil programme could be of an inter-disciplinary nature, where around a core discipline many interdisciplinary courses could be offered. While introducing M.Phil programme these variations within it may be kept in mind.

The relationship between M.Phil programme and Ph.D. programme would vary depending upon the type of M.Phil stream from which a student comes to join Ph.D. A M.Phil programme which is primarily substantive-pedagogic may not be treated as a pre-Ph.D. Course, but a separate degree. For such students registration to Ph.D. should be possible with some additional course creditings or with publications. The other two types of M.Phil programmes could be treated also as pre-Ph.D. courses.

The important point to note is that both substantively and methodologically it may not be very useful to treat M.Phil

programme as a homogenous type of course structure. There should be flexibility in formulation of this programme and in linking it with research activity and cognitive activity in the disciplines concerned.

2. Content of Courses: The content of M.Phil courses can be of two types : (a) a course structure where content of courses are primarily substantive and theory and methodology contents are built into these courses instead of being taught separately, (b) courses where the contents are distinguished into three separate areas, substantive courses, theory courses, and methodology courses and (c) the courses which are inter-disciplinary in content and are differentiated into substantive, methodological and theory oriented courses.

The dissertation as a part of the course work would be an essential ingredient in all the three types of courses, but its nature would vary from one type to another. It may be essentially reflective and critical in the first type of course structure and be based on empirical data, historical and archival records in the second and the ~~third~~ type of course contents.

Dissertation or long analytical term papers should comprise an essential part of M.Phil programme as laid down in the UGC M.Phil guidelines.

M.Phil students should offer at the most 50% of the credits through dissertation and the rest through the course work.

Teaching Procedure: It would be desirable at M.Phil level of teaching that the method of straight lecturing is replaced by seminars and tutorials. Student participation through presentation of papers and discussions on them should replace lecturing by teachers so that ability to critically assess ideas and analyse them in a logico-empirical setting is guaranteed among students.

Evaluation and Credit Distribution in Courses:

The evaluation of the performance of students in M.Phil courses should be done by the course-in-charge and the credit value of a course, distribution of credits in each course to different components of performance, such as through term paper, review essays, oral presentation or viva-voce etc. should be spelled out in each course at the beginning of the Semester by the teacher (also approved by the Departmental/Centre Committees of M.Phil courses).

Those obtaining B+ and above should be allowed to go in for Ph.D work and others should be given M.Phil degree as a terminal degree.

It should also be possible for M.Phil students to go directly for Ph.D. work through completion of course work only if their grade-point-average is Minus A or above (1st class to outstanding). In such a case they will not submit dissertation for M.Phil degree but only for Ph.D. (132)

Similarly it should be possible for a student promoted to register directly for Ph.D. through good course work performance to opt out of the scheme and submit a dissertation for M.Phil only if the Supervisor/M.Phil Ph.D. Committee recommends such a case.

Evaluation of M.Phil dissertation like other courses should be done internally by the Committee of M.Phil, Ph.D. programme in the Centre or Department. Instead of this Committee being called "M.Phil Committee" as the U.G.C. note envisages it should be called M.Phil/Ph.D Committee because there may be much overlap of work between the two levels of the programme.

Administration of the Programme. As the UGC note rightly points out the institution of the M.Phil programme should be done very carefully and in stages. Only Departments/Centres with strong faculty based should be encouraged to start M.Phil programme. It should not be started as a correspondence programme or as part time programme.

Moreover, the type of M.Phil programme that a Centre starts should be related to the kind of specialisation in research and teaching work that its faculty has been able to achieve.

Before a Centre/Department is allowed to start M.Phil programme a Visiting Committee of experts should assess the potential of the Centre/Department to start this programme and recommend the type of programme that it should undertake.

Dissertation : As observed by the UGC note M.Phil programme should be of one year's duration (two semesters). In special cases the M.Phil/Ph.D Committee may allow a student if he/she has completed the course work to submit the dissertation later as ex-student or regular student. A time-limit for it should be fixed.

Admission Requirement/procedure: Eligibility to apply for M.Phil courses should be open to students with a B Plus or 55% in the M.A. degree. They should be required to appear for oral and written tests and on the basis of merit admission should be made. A certain percentage of seats (upto 20%) should be reserved for Scheduled Castes/Tribes if they qualify on merit at the minimum level (with B Plus or 55%) in over-all performance (composite of test, and examination performance).

The recommendation of a Centre/Department for M.Phil

133

M.Phil admission may be placed before the Committee for Advanced Studies/Research Committee/Board of a School or Faculty for approval.

Note : These comments should be read together with the UGC guidelines on M.Phil courses. Those item on which no comments have been offered would be incorporated as guidelines from the UGC note.

COMMENTS OF THE HUMANITIES AND SOCIAL SCIENCES PANELS ON M.PHIL GUIDELINES

ENGLISH AND FOREIGN LANGUAGES

(134)

The panel considered in detail the guidelines for introduction of M.Phil courses and made the following observations and recommendations:

Objectives:

1. The M.Phil degree should be looked upon as the first research degree comprising of course work and research dissertations ordinarily, candidates who desire to work for the second and higher) research degree, viz. Ph.D. may first be admitted to the M.Phil course. Only those should be permitted to proceed for Ph., who have either obtained an M.Phil. degree, or have given satisfactor evidence of having completed course work and research of an equivalent level. The M.Phil. degree will be a terminal degree for those who do not have the ability of aptitude for advanced research for the P.D. degree .

2. Part of the research work done for the M.Phil degree could be incorporated in the research work for the Ph.D. degree, it being understood that research for the Ph.D. degree would be much wider in scope, and would required a fresh approach towards the subject, originality of ideas and interpretation, and an in depth study. It may, however be better to discourage the practice of using the research dissertation for the M.Phil. in the thesis for Ph.D, for many reasons.

Content

1. The M.Phil students should ordinarily be required to undertake (i) advanced course work in a given discipline; (ii) inter-disciplinary studies related to the main interest of the scholar; (iii) courses in research methodology and (iv) a dissertation or project. The students may also be encouraged to take course in allied subjects including languages wherever possible.

2. The programme for M.Phil in English and Foreign Languages should provide for advanced courses in the following areas of specialisation:

- a) Literature including stylistic.
- b) Applied Linguistics and Phonetics specifically related to the respective language
- c) Methodology of teaching of Foreign Languages.

It was noted that candidates admitted to the M.Litt/Ph.D. courses in English at CIEFL were required to pursue the Postgraduate Diploma Courses before proceeding to M.Litt and Ph.D.

135

Duration :

The minimum duration for M.Phil. courses in English and Foreign Languages should be three semesters. It will not be possible to complete the course work and the dissertation for M.Phil in one academic year or two semesters, because a number of courses which will be required for the M.Phil programme will be such as will not have been covered in the M.A. programme, and it will not be possible to complete all of them in less than one academic year. The duration of the M.Phil course may, therefore, be one academic year of course work followed by one or two semesters which could be given exclusively to dissertation or project work.

The M.Phil degree should not be a necessary condition for admission to Ph.D. although in most cases, doctoral candidates will have passed the M.Phil degree.

There is no need for a separate Committee for M.Phil courses. All universities have a committee which looks after research and advanced studies. The same committee may oversee the M.Phil. course.

PSYCHOLOGY

While the panel was in general agreement with the guidelines proposed for institution of the M.Phil courses in the universities, the Panel nevertheless felt that the M.Phil degree need not be a prerequisite course for Ph.D. programme in Psychology. Wherever M.Phil is introduced, it should be primarily a content course which would help the teachers of the affiliating colleges in teaching the subjects better. It would also include some course in methodology of research to initiate them into research. The course should also emphasize practical skills of communication which are essential for any good teaching in any subject for some Ph.D. candidates. There is a need for tailor made courses to suit the individual requirements of the candidates. This course has to be prescribed by the guide for some candidates if he feels that a particular candidate is deficient in certain areas which are absolutely necessary for Ph.D. research. But for every Ph.D candidate M.Phil course need not be insisted on.

POLITICAL SCIENCE.

The panel noted the guidelines approved by the Commission for institution of the M.Phil courses in the various universities. It would, however, like to make the following observations in their regard:

- i) There should be no necessary linkage between M.Phil/Ph.d. and the

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new grades; otherwise the quality of both these degrees would get diluted in the rush of teachers wishing to join M.Phil/Ph.D. courses with which the various universities are obviously not in a position to cope.

136

- ii) It should be made explicit that M.Phil can serve as a terminal degree also and it should not be treated only as the preparatory course for the Ph.D. degree.
- iii) The M.Phil. course should remain a whole time course and the teachers wishing to join it should avail themselves of the Fellowships which the UGC has made available for the purpose.
- iv) Direct registration for Ph.D. should be possible.
- v) Stipulation for provision of additional staff by the UGC is necessary if the M.Phil programme is taken seriously.

COMMERCE:

The guidelines received from the UGC about M.Phil courses were discussed and it was resolved that.

- a) M.Phil be treated as an intermediate degree between postgraduate degree and a Ph.D. degree. It need not necessarily be qualifying degree for Ph.D. programme.
- b) Its objective should be.
 - (i) to expose a candidate to the frontiers of his own subjects fully and to acquaint him with allied subjects.
 - (ii) to expose a candidate to teaching technology relevant to his subject, which in case of Commerce students should include meaningful association with industrial commercial and agricultural enterprises.
 - (iii) to expose a candidate to research methodology relevant to his subject.
- c) It should be a whole time course and should not be run on a part-time basis or through correspondence.
- d) The UGC should get a book compiled on "Research Methodology" relevant to disciplines of different nature. after getting suitable methodologies evolved through various panels.

Law:

The Panel discussed the question of institution of M.Phil courses in the Faculty of Law after the LL.M. and before the Ph.D. degree. The Panel was of the opinion that for the Faculty of Law the objective of the M.Phil course should be woven into the LL.M. course, which follows the three-year LL.B. course. The new courses being suggested by the workshops for LL.M. amply serve this purpose and, therefore, the Panel feels that the LL.M. should be equated to M.Phil and that there should be no intermediate degree between the LL.M. and the Ph.D. degrees.

PHILOSOPHY

While the Panel was in general agreement with the guidelines proposed for institution of the M.Phil course in the universities, it nevertheless felt that there is a possibility of conveying other types of M.Phil courses oriented more towards teaching at the collegiate level.

SOCIAL WORK

The Panel generally agreed with the guidelines proposed for institution of M.Phil course in the universities.

TEACHER EDUCATION:

The Panel made the following observations on the guidelines for institution of M.Phil courses in the universities.

A Academic Courses

- (1) The M.Phil course is meant for a very large number of teachers in the affiliated colleges; as such it should have the following ingredients:
 - i) An advanced course in the special area of special area of specialisation of a teacher.
 - ii) elements of research including research methodology.
 - iii) elements of communication and evaluation skills.
 - iv) role of higher education and of University and College teachers in contemporary society.
- (2) The M.Phil degree should not be made a necessary condition for admission to the Ph-D. programme.
- (3) It would be an advantage to institute correspondence-cum-contact programmes and regular part-time programme for teachers who wish to enrol themselves for the M.Phil. course.

(B) Education and Teacher Education Courses

138

A view was expressed that it may not be necessary to insist on the M.Phil. programme in the case of teachers in teacher colleges and University Department of Education in view of the fact that, normally, they have two postgraduate degrees, one in a basis discipline and the other in Education, whereas the requirements for a new teacher in a university or a college would be only a postgraduate degree and M.Phil. course of one year. In any case the Panel wished to await the final recommendation of the joint UGC NCERT Conference scheduled for December, 1976 which will consider the reorientation and modernisation of B.Ed. and M.Ed. courses.

ECONOMICS :

The guidelines approved by the Commission for institution of M.Phil. course in the Universities were considered. It was decided to draw attention of the Commission to the following needs:

- a) that whereas full time M.Phil courses were greatly desirable, to enable university teachers to attend them, their salaries during the period of study will have to be protected. If for one reason or another this condition cannot be fulfilled, three summer vacation course should be organised for them and they should be given T.A. and D.A. for attending them. University teachers giving instructions for three courses during vacations should be given special monetary compensation or equivalent leave should be credited to their account.
- b) only teachers with research degrees and research guidance experience or published research work or recognised merit should be allowed to handle M.Phil Course.
- c) A minimum of three such teachers would be essential for a department or institution to be recognised for running these courses.
- d) Because of the needs of dissertation and the detailed guidance that would be needed for M.Phil there should minimum senior teacher-student ratio of 1:6.
- e) Dissertation should be considered as equivalent of one paper.
- f) The course work in Economics should comprise Research Methodology, Advanced Economic Analysis, and Mathematical and Statistical Techniques and Scientific methods.
- g) Regarding admission of student, etc., the department or research institute allowed to run the course should be in a position to decide; the choice of the topic of dissertation should be done in consultation with the guiding teacher.

139

HISTORY

The Panel was in general agreement with the guidelines for the institution of M.Phil. course in the universities. The following suggestions were, however, made:

1. Adequate competence in the language of source materials should be made a compulsory requirement for M.Phil students in History.
2. The minimum seminars prescribed for the M.Phil course should include one seminar on the subject of the dissertation of scholars.
3. At least one external examiner should be appointed for evaluating the M.Phil dissertation.
4. The general question of introducing of inter-disciplinary studies at the M.Phil level should be explored by the Commission.
5. The word 'successful' may be deleted in the following sentence appearing under 'duration' on page 2 of the guidelines: "The semester should include one successful seminar pertaining to the scholar's dissertation."

LINGUISTICS:

The Panel considered in detail the guidelines for introduction of M.Phil Courses and made the following observations and recommendations:

1. Objectives:

The M.Phil degree should be looked upon as the first research degree comprising of Course work and research dissertation. Ordinarily, candidates who desire to work for the second (and higher) research degree, viz. Ph.D. may first be admitted to the M.Phil course. Only those should be permitted to proceed for Ph.D., who have either obtained an M.Phil degree, or have given satisfactory evidence of having completed course work and research of an equivalent level. The M.Phil degree will be a terminal degree for those who do not have the ability or aptitude for advanced research for the Ph.D. degree.

2. Content:

The M.Phil students should ordinarily be required to undertake-

- i) Advanced Course work in a given discipline;
- ii) Interdisciplinary studies related to the main interest of the scholar;
- iii) Courses in research methodology and
- iv) A dissertation or project.

3. Duration

140

The minimum duration for M.Phil Courses in Linguistics should be three semesters. It will not be possible to complete the course work and the dissertation for M.Phil in one academic year or two semesters. Because a number of courses which will be required for the M.Phil programme will be such as will not have been covered in the M.A. programme, and it will not be possible to complete all of them in less than one academic year. The duration of the M.Phil course may therefore be one academic year of course work followed by one or two semesters which could be given exclusively to dissertation or project work.

The M.Phil degree should not be a necessary condition for admission to Ph.D. although in most cases, doctoral candidates will have passed the M.Phil degree.

MODERN INDIAN LANGUAGES:

The Panel made the following observations:

The Panel accepted, in principle, the need for instituting the M.Phil, degree after the postgraduate course. It was, however, felt that the following considerations should be taken into account in implementing this programme:

(1) It should be recognised that all teachers may not have competence or aptitude for research but all teachers are required to be good teachers and to increase their competence. Therefore, the M.Phil. degree should take care of two categories of teachers, namely, those who will proceed to the Ph.D. and those who will not,

(2) The M.Phil. degree should not be a obligatory requirements for admission to the Ph.D. programme.

(3) Teachers who wish eventually to register themselves for Ph.D. degree may have the M.Phil. programme recommended by the guideline prepared by the Commission.

(4) For teachers who will not or cannot proceed to the Ph.D. programme, the M.Phil. degree should have the following components:-

- (a) courses in advanced knowledge in the special field of a teacher;
- (b) a course on research methodology appropriate to the special interest of the teacher;

141

(c) a course on communication and evaluation skills
(elements of pedagogy appropriate for college
classes).

(d) the project work.

(5) The universities should have the freedom to devise
courses under the four categories mentioned above to
suit the requirements of individual teachers.

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The observations of the Science Panels on the
Guidelines for introduction of M.Phil. Courses.

142

I Physics Panel

- (1) The Physics Panel considers that every student working towards a Ph.D. degree should have a certain course programme, presentation of seminars and project work during the first year of the Ph.D. programme so as to initiate him/her systematically into research with a broad basic training in the subject related interdisciplinary areas as well as the proposed thesis area.
- (2) It, therefore, recommends that wherever a university has adequate facilities and well qualified staff and also an annual input of a number of research students which justifies the initiation of an M.Phil programme, such an institution should be expected to start an M.Phil programme as a pre-requisite to Ph.D. Such departments should, however, be carefully chosen by the Commission and should set the pace for development of enriched Ph.D. programmes elsewhere.
- (3) An M.Phil. programme should have a duration of one academic year with 50% of the time devoted to course work and seminars (about 4 courses) and the remaining 50% devoted to a dissertation based on a project work the extension of which may ultimately lead on to a thesis for Ph.D.
- (4) An M.Phil programme is not to be made an essential qualification for Ph.D. registration (except in departments selected as in para.2 above) nor should the M.Phil programme be designed purely as a terminal degree.
- (5) Other universities and postgraduate colleges which do not have an M.Phil programme may accordingly encourage their Ph.D. students to undergo an M.Phil programme at one of the universities having an M.Phil programme as indicated above.
- (6) The above M.Phil Programme is not designed to meet the needs of retraining of college teachers under Faculty Improvement Programme or M.Phil to meet the requirements for new salary scales introduction, since the nature of course content, training in educational technology and research initiation for such teachers would be different from an M.Phil Programme designed as a Pre-Ph.D. programme. Any M.Phil. Programme for college teachers should, therefore, be carefully designed separately.

II Biological Sciences Panel

The Panel felt that M.Phil. courses should be considered as a pre-requisite programme for Ph.D., but should not be imposed as a pre-condition for eligibility to proceed to Ph.D. work. Flexibility is required in this regard. The Panel also expressed that UGC should try to exert as such pressure as possible on State Governments through the Ministry of Education urging them not to impose M.Phil. as a pre-condition for the entitlement of new scales of pay recommended by the UGC for existing University and college teachers.

III Geology and Geophysics Panel

The Panel generally agreed with the basic philosophy of the Commission regarding M.Phil. programme. The Panel felt that M.Phil. should be (a) in service programme for the Teachers already employed and also (b) a Pre-Ph.D. type of programme. M.Phil should not be considered as an essential pre-requisite degree for Ph.D. for all universities. Furthermore M.Phil. could also be in the nature/specialised courses for one year depending upon the emerging needs and also infrastructure and facilities available in the department concerned.

IV Mathematics Panel

The Panel generally accepted the guidelines proposed for the M.Phil. courses. It was felt that in mathematics it is difficult to expect some original work as a dissertation. In mathematics it may be a review of the work done in some area. It may be necessary to have separate courses for college teachers and the fresh students. For some of the teachers the M.Phil. would be a terminal degree while for the fresh students this would be in the nature of a pre-Ph.D. Course. For the teachers who have obtained their masters degree more than 10 years ago it is necessary to bring them up-to-date by some basic courses. Such teachers could also take part in seminars or classes conducted for M.Sc./M.A. students. The examination of the M.Phil. candidates may be done by a board of internal examiners which should also include at least one external expert. The core courses in basic mathematics should be made compulsory for all the M.Phil students.

145

V. Chemistry Panel

The Panel generally accepted the guidelines prepared by the Commission for M.Phil courses. It was, however, indicated that in Chemistry the dissertations required for M.Phil. degree may not be necessarily original research work but could be

- a) critical review of the state of research in certain area or
- b) design and evolving of better instructional methods including educational technology for better chemistry teaching at undergraduate/postgraduate level and
- c) project report indicating research methodology and possible development of a research programme in a logical manner.

UNIVERSITY GRANTS COMMISSION

145

Meeting:

Dated: 21st February 1977

Item No.26: To consider the proposal received from the Centre of Advanced Study in Mathematics, Bombay University, for utilisation of grants during the Fifth Plan period.

...

The Commission at its meeting held on 7th January, 1976 vide Item No.6 while considering the recommendations of Standing Committee for the programme of Centres of Advanced Study and Departments of Special Assistance decided that the Centres of Advanced Study who have completed initial ten years period and whose work has been rated as excellent or good may be provided an assistance upto Rs.20 lakhs within the V Plan period.

It was subsequently decided that such proposals may be examined in the light of the recommendations made by the Assessment Committee which has reviewed the work of the Centre earlier. It was also decided that the grants required for scholarships/fellowships etc. may be provided in addition to the allocation of Rs.20 lakhs approved for the Centres. The proposal from the Centre of Advanced Study in Mathematics, Bombay University, was placed before the Commission at its meeting held on 18th October, 1976 (Item No.13). The Commission desired that the Centre may be requested to reformulate the proposal in consultation with Prof.R.P. Bambah Prof. B.M. Udgaonkar and the Head of the Mathematics School, T.I.F.R., Bombay. The Bombay University has now submitted a revised proposal in the light of discussions held. The proposal is attached as Annexure-I*

* p 147-151

The report about the discussions held by Prof. B.M. Udgaonkar and Prof. R.P. Bambah with the centre is attached as Annexure-II+ Subsequently, Prof. R. Sridharan, T.I.F.R., Bombay has given suggestions for meaningful collaboration between the Centre of Advanced Study in Mathematics, Bombay University and School of Mathematics, T.I.F.R., Bombay. A copy of this letter is attached as Annexure-III@ The report of the Assessment Committee which visited the centre earlier is attached as Annexure-IV.& The recommendations as given in the report of Prof. Bambah and Prof. Udgaonkar are as follows:.

+ p 152-156

@ p 157-160

& p 161-166

146

Non-recurring:

1) Building	...	Rs.5.00 lakhs
2) Equipment including furniture (including basic grant)	...	Rs.1.00 "
3) Books and journals (including basic grant)	...	Rs.1.25 "
4) Mini-bus or other vehicle:	...	Rs.1.00 "
Total (Non-recurring)		Rs.8.25 "

Recurring:

- 1) Staff
(6 senior positions (Professors or Readers), two lecturers, to be filled in a phased manner depending on the availability of suitable people).
- 2) Visiting Fellows ... Rs.12,000 p.a.
- 3) Travel ... Rs. 3,000 p.a.
- 4) Publications ... Rs. 3,000 p.a.
- 5) Books and journals ... Rs.27,500 p.a.
- 6) Contingencies ... Rs. 4,500 p.a.

It has also been recommended that an allocation of Rs.3.25 lakhs may be approved, if possible, for faculty housing. This requirement could be accommodated to some extent within the scheme of the Commission to provide assistance 50% of the faculty positions that be approved by the Commission.

The matter is placed before the Commission for consideration.

E.O.(SR-I)

Copy of letter No.APD/1094 of 1977 dated 24th January, 1977 received from the Registrar, Bombay University, Bombay to the Secretary, University Grants Commission, New Delhi.

...

Sub: Centre of Advanced Study in Mathematics - University of Bombay - Assistance during the Fifth Plan period.

...

Please refer to your letter No.F.9-13/75(SR-I) dated 22nd November, 1976 on the above subject.

2. As desired by the Commission, the Fifth Plan development proposals of the Centre of Advanced Study in Mathematics have been reformulated in consultation with Prof. B.M. Udgaonkar, Prof. K.G. Ramanathan and Prof. P. Sridharan of the Tata Institute of Fundamental Research and Prof. R.P. Bambah, Head of the C.A.S. in Mathematics in the Panjab University. Five copies of the reformulated proposals are sent herewith in the prescribed forms. The estimated cost of the proposals is given below:-

<u>Non-recurring:</u>	<u>Rs.</u>	
Basic grant for equipment	25,000	(already sanctioned by the UGC)
Basic grant for books and journals	1,00,000	-do-
Additional accommodation	6,50,000	
Faculty housing	4,00,000	...
Mini bus	1,00,000	...
Furniture	1,00,000	...
 <u>Recurring:</u>		
Additional teaching staff	4,03,650	
3 Professors		
3 Readers		
2 Lecturers		
3 Research Associates		
Additional administrative staff	23,000	...
1 Typist-clerk		
1 Peon		
Travel	6,000	...
Working expenses (including books & journals) Rs.75,000/-	1,47,000	(as per details given)
Visiting Fellows	45,000	...
Total:	<u>19,99,650</u>	say Rs.20.00 lakhs

3. I have to request you kindly to obtain the Commission's approval for the proposals

Centre of Advanced Study in Mathematics
University of Bombay

Proposals (Revised) of the CAS in MATHEMATICS, University of Bombay in
response to UGC letter No.F.5-1/(SR-I) dated 3rd February, 1976.

(148)

	Under main- tenance budget (including that taken over from CAS from 1.4.74)	Under V Plan schemes accepted by U.S.C.	Basic grants approved under V Plan and from CAS grants	Additional requirements proposed under CAS scheme for V Plan	Remarks/ justification for additional requirements.
	Rs.	Rs.	Rs.	Rs.	
NON-RECURRING:					
Building (Lab.)	-	-	-	6,50,000.00	
Faculty Housing	-	-	-	4,00,000.00	
Equipment (including furniture)	-	38,000	25,000	1,00,000.00	
Books and journals	-	38,000	1,00,000	-	
Mini bus	-	-	-	1,00,000.00	
RECURRING:					
1. Teaching (present strength 3 Prof., 3 Readers & 2 Lects.)	96,200.00	one Reader	-	-	(3 Professors, 3 Readers, 2 Lecturers & 2 Research Associates)
2. Supporting Technical	43,100.00	-	-	-	(one Typist, one Peon)
3. Fellowships	-	-	-	-	
4. Travel	5,000.00	-	-	6,000.00	
5. Working expenses	29,500.00	-	-	1,47,000.00	
6. Seminar/Symposia	10,000.00	-	-	-	
7. Visiting Fellows	-	-	-	45,000.00	

** These figures are from budget estimates from 1976-77.

Centre of Advanced Study in Mathematics
University of Bombay

14/9

ENCLOSURE NO.1

Details of grants required for the proposed Academic staff for two years 1977-78 and 1978-79.

PROPOSED STAFF

- 3 Professors in the Grade of Rs.1500-60-1800-100-2000-125/2-2500
- 3 Readers in the Grade of Rs.1200-50-1300-60-1900
- 2 Lecturers in the Grade of Rs. 700-40-1100-50-1600
- 3 Research Associates in the Lecturer's grade.

1977-1978

3 Professor	1820 x 12 = 21840		
	+ Prov.Fund	<u>1600</u>	
		23440 x 3	70,320.00
3 Readers	1580 x 12 = 18960		
	+ Prov.Fund	<u>1360</u>	
		20320 x 3	60,960.00
2 Lecturers	1090 x 12 = 13080		
	+ Prov.Fund	<u>880</u>	
		13960 x 2	27,920.00
3 Research Associates		1090 x 12 x 3	39,240.00
		Total:	<u>Rs.1,98,440.00</u>

1978-1979

3 Professor	1880 x 12 = 22560		
	+ Prov.Fund	<u>1660</u>	
		24220 x 3	72,660.00
3 Readers	1630 x 12 = 19560		
	+ Prov.Fund	<u>1130</u>	
**		20,970 x 3	62,910.00
3 Research Associates		1130 x 12 x 3	<u>40,680.00</u>
		Total:	<u>Rs.2,05,210.00</u>
	Total 1977-78	...	Rs.1,98,440
	1978-79	...	Rs.2,05,210

			Rs.4,03,650

**	2 Lecturers	1130x12 = 13,560	
		+ Prov. Fund=	<u>920</u>

		14,480x2	Rs. 28,960.00

Centre of Advanced Study in Mathematics
University of Bombay

150

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Enclosure No.2

Details of grants required for the proposed
Administrative Staff from 1.4.77 to 31.3.79.

Proposed Adm. Staff:

1 Typist Clerk in the grade Rs.145-150-8-230-EB-12-350 +
Rs.20/- special pay per month.

1 Peon in the grade Rs.85-2-113-EB-3-125

<u>Year</u>	<u>Typist-Clerk</u>	<u>Peon</u>
1977-78	Rs. 503.65 x 12 ----- 6043.80 + Prov.Fun. 333.00 ----- Total Rs. 6376.80	Rs. 323.05 x 12 ----- 3876.60 + Prov.Fund 196.82 ----- Total Rs. 4073.42
1978-79	Rs. 514.99 x 12 ----- 6179.88 + Prov.Fund 340.92 ----- Total Rs. 6520.80	Rs. 325.35 x 12 ----- 3904.20 + Prov.Fund 198.96 ----- Total Rs. 4103.16
1977-78	Rs. 6376.80 + Rs.4073.42 = 10,450.22	
1978-79	Rs. 6520.80 + Rs.4103.16 = 10,623.96	
	Rs. 21,074.18	

Say Rs. 21,075

Provision for medical
benefits etc. for 2 years Rs. 1,925

Total: Rs. 23,000

Centre of Advanced Study in Mathematics
University of Bombay

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Enclosure No.3

151

Details of grants required for working expenses for
1977-78 and 1978-79.

...

Driver's pay in the grade Rs.120-5-185 + late hour
allowance Rs.60/- p.m.

1977-78	Rs. 517.80 x 12 =	Rs. 6214.20
	+ Prov.Fund	342.96
1978-79	Rs. 524.80 x 12 =	Rs. 6297.60
	+ Prov.Fund	348.00

		Rs. 13202.76

Say Rs. 13,200.00

Depreciation cost at 20% of the capital value of the Mini Bus		Rs. 40,000.00
Taxes - B.M.C., R.T.O. and others ...		Rs. 2,000.00
Diesel and Oil ...		Rs. 4,000.00
Insurance ...		Rs. 1,500.00
Washing and monthly servicing ...		Rs. 1,800.00
Repairs and Replacement of parts and other contingent expenses		Rs. 9,500.00

		Rs. 72,000.00
Books and journals ...		Rs. 75,000.00

	Total:	Rs.1,47,000.00

Report on the discussion between Professors Udgaonkar, Bambah, Shrikhande, Sridharan and Ramanathan regarding the Advanced Centre in Mathematics at Bombay.

(Note: Comments in brackets are those of R.P. Bambah only, because they were not fully discussed in the meeting).

As decided in the last meeting of the Commission Prof. Udgaonkar and I had a meeting at Bombay with Prof. S.S. Shrikhande, Director, Centre for Advanced Study in Mathematics, Bombay University, Prof. R. Sridharan, Dean, School of Mathematics, Tata Institute of Fundamental Research and Prof. K.G. Ramanathan. (Prof. Ramanathan was also on the Assessment Committee for the Centre).

The Centre and the Department together have the following positions:

- (a) 3 Professors (one Professorship being reserved for a mathematician deputed to the Centre by the Tata Institute of Fundamental Research).
- (b) 3 Readers
- (c) 2 Lecturers/Research Associates.

Of these 8 positions, one is vacant (the incumbent Reader died sometime ago), while the professorship meant for a person under deputation from the TIFR has not been filled in, because the decision on the person deputed by the TIFR in consultation with the Director of the Centre has not been made by the University.

In addition, the Tata Institute of Fundamental Research deputed one more person to the Centre and this person is paid by the Tata Institute during the period of deputation. This year no such person has started work, because the decision has not been taken by the University on the acceptability of the person deputed by the Tata Institute in consultation with the Head of the Centre.

As is clear from the above, the Centre-cum-Department has at the moment six members on the faculty. During its existence it has never had more than seven faculty members, (besides two members on deputation from the Tata Institute for various periods).

It would be unrealistic to expect such a small group to develop work in many areas of Mathematics. The Combinatorics group under the leadership of Prof. S.S. Shrikhande has done respectable work. However, at the moment Combinatorics group

(53)

consists of Prof. Shrikhande and one Reader (Mrs. Bhat-Naik) only. Prof. Shrikhande expects to retire next year and if he is not reappointed, this group will also become a single-member group and one could not expect it to make any significant contribution.

It is clear to us that, unless significant inputs are put in, the Centre will not be able to make any impact in the foreseeable future. We all believe that, in order that the Centre may be able to get anywhere, it should have at least three viable groups working in various (preferably allied) areas of Mathematics. For each area, the minimum strength for a viable group should be three people at the senior level (Professors and Readers), one at a Lecturer level and a number of Research Fellows. The most important ingredient of a group would be a person of maturity, who could give leadership and develop the group as a whole. Such a group should be started only when a person with requisite leadership qualities is identified and attracted to the Centre. After such a person has been appointed, other members of the group should be recruited in consultation with him.

Of the three groups, because of the history of the Centre, one should be in Combinatorial Mathematics. Of the other two, attempts may be made to develop one group in Functional Analysis and Probability. (Prof. Shrikhande feels he may be able to take steps to build up this group around a person of requisite qualifications). The third group should be built around some active mathematicians, whom the Centre may be able to attract. (The leadership in the groups could also be provided by deputing some senior members from the Tata Institute for a number of years. But, during this period, they should be on the pay-roll of the University and have all the responsibilities and privileges of a fully faculty member).

If the above philosophy is accepted the Centre will need for these three groups twelve people - nine at the senior level and three at the Lecturers level. Since Prof. Shrikhande and Dr. Bhat-Naik are already there and one Readership is vacant, this means that six new senior positions (Professors and Readers) will have to be provided. Of the two Lecturers in the Department, one is working in Functional Analysis and Probability. This means that two new positions at the Lecturers level will have to be provided. (The three other members of the present staff would continue to help in the teaching and other responsibilities of the Department).

Summing up, the requirements of the staff would be as follows:

New positions to be created : Six Professors and Readers,
Two Lecturers.

p.t.o.

(157)

on the understanding that

(1) Two of the now positions, one senior and one junior, will be used to strengthen the Combinatorics group and if Prof. Shrikhande retires and he is not reappointed, his position will also be used for this group.

(It may be desirable for the University to reappoint Prof. Shrikhande after the age of 60 to continue leadership of the Combinatorics group. But the University may start looking for a dynamic and mature mathematician, who could take over the leadership of the Centre from Prof. Shrikhande in due course).

(2) For the other six positions (five senior and one Lecturer) as also the vacant Readership - the University should phase the appointment in such a way that first a person, who can give leadership to a group, is identified and appointed, and then appointments of other members for that particular group are made in consultation with him.

One of the difficulties mentioned, again and again, is that even if one is able to attract people to Bombay of the requisite calibre, it is difficult to keep them, principally, because of the housing conditions. The Commission may consider the question of providing houses for all the new positions, clearly ear-marked for the Centre.

In order to make full use of the additional faculty the Centre may start M.Phil. courses and also take steps to provide leadership for undergraduate programmes in the University. It may be worthwhile for the Centre to start some undergraduate courses to experiment with pace setting programmes.

PART-II

Collaboration with the Tata Institute

The collaboration between the Centre and the Tata Institute of Fundamental Research in the past consisted of (1) deputation of two members of the Tata Institute to the Centre - one on the pay-roll of the Centre and the other on that of the Institute, and (2) providing facilities of training and library, etc., to the students and faculty members of the Centre.

Regarding the second, now that the University has moved to its own campus, the distance between the Tata Institute and the University would make it very difficult for members of the Centre to make use of the Tata Institute's facilities unless transportation between the University and the Tata Institute is provided on a regular basis. We feel that the

(153)

UGC could provide a station wagon/mini-bus to the Centre, which could make a couple of trips between the University and the Tata Institute every day and which could be used by the Physics and Mathematics people. We understand that the facilities of transportation between the TIFR and BARC, and BARC and IIT Bombay have been very useful for various collaboration programmes.

Regarding (1), this year difficulties have arisen because of the difference of opinion between the University and the Tata Institute on the rank to be given to the deputed members. In fact, in the case of one person, Mr. B.V. Singhbal, even his recognition as a teacher in the University for teaching and guidance purposes has not been decided. We recommend that, if they have to make contribution to the development of the Centre, members of the Tata Institute, mutually agreed upon for deputation between the Dean of the School of Mathematics at TIFR and the Director of the Centre, should be given full faculty status on the University and be expected to participate in all decisions of the Department like any other members of the Department. Regarding the designation to be given to these people, there was no clear-cut agreement, although the following alternatives were suggested:

- 1) The deputed members may be given the designation: 'Visiting Professors'.
- 2) There may be some sort of equivalence between the ranks in the Tata Institute and ranks in the University depending on the initial salary of the scale. To be more precise, a person in the rank of Reader or above (whose pay scale starts at Rs.1500/- or more) may be given the rank of a Visiting Professor, while a Fellow may be a Visiting Reader.
- 3) The deputed members may be called 'Visiting Faculty' without a usual rank but with all the responsibilities and privileges of the faculty of the Department.

We would like to emphasise that delay in decisions in such matters (which really are not important from academic point of view) creates undue tensions and militates against proper collaboration.

Regarding the ancilliary facilities, we feel the following would be reasonable for the Centre.

p.t.o.

Non-recurring:

1) Building:	...	Rs. 5.00 lakhs
(We understand that the building for the Centre is grossly inadequate).		
2) Equipment including furniture (including the grant already released).		Rs. 1.00 "
3) Books and journals ... (including the grant already released).		Rs. 1.25 "
4) Mini-bus or other vehicle...		Rs. 1.00 "

Total (Non-recurring)		Rs. 8.25 "

Recurring:

1) Visiting Fellows	...	Rs. 12,000 p.a.
2) Travel	...	Rs. 3,000 p.a.
3) Publications	...	Rs. 3,000 p.a.
4) Books and journals	...	Rs. 27,500 p.a.
5) Contingencies	...	Rs. 4,500 p.a.

Total (Recurring)		Rs. 50,000 p.a.

Our estimate for expenditure is as follows:

Non-recurring	...	Rs. 8.25 lakhs
1) Working expenses = .5 x 3 =		Rs. 1.5 "
2) Staff salaries = Less than		Rs. 6.00 lakhs
(6 senior positions and (for period upto 31.3.1979) 2 Junior positions to be filled in a phased manner depending on the availability of suitable people).		

Total: Rs. 15.75 lakhs.

If possible some grant for faculty housing, say, Rs. 3.25 lakhs, may be added.

Copy of letter No.TFR:SM:RS:1264/76 dated December 20, 1976 from Prof. R. Sridharan, Tata Institute of Fundamental Research, Bombay to Dr. Satish Chandra, Chairman, University Grants Commission, New Delhi.

....

Prof. Bambah, Prof. Udgaonkar and Prof. Shrikhande met me and Prof. Ramanathan to discuss the proposals made by the Bombay University Centre for Advanced Study in Mathematics for the Fifth Five-Year Plan. We had some discussions and later these were discussed once again by the Mathematics Faculty of the Tata Institute of Fundamental Research. We feel that in order that there be meaningful collaboration between the Bombay University Centre and the School of Mathematics, the suggestions made in the attached note be implemented. (Appendix)

The School of Mathematics of the Tata Institute of Fundamental Research is certainly interested in continuing its collaboration with the Centre for Advanced Study in Mathematics of the Bombay University. The interest in this collaboration arises from the desire to build a strong university department which would develop into a Centre of excellence. It was in fact this desire that made the School of Mathematics take the initiative to form the Centre. The Institute has, over the years, supported the Centre in many ways: it has provided office space and other physical facilities to staff members of the Centre; two members of the School have been deputed to the Centre all along; Institute staff have taught M.Sc. courses even before; most students in areas other than combinatorics (at the Ph.D. level), who have worked and are working at the Centre, have been trained at the School of Mathematics of the Tata Institute.

Looking back however at what has happened over the past few years, it seems to us that continued collaboration can be really fruitful only if the level and intensity of the collaboration is much higher than it is at present. We make the following suggestions in order to bring this about. It seems to us that the following suggestions must be taken up very seriously if continued collaboration is contemplated by the University:

- (i) The department needs to be expanded. (The level of expansion suggested by Professors Udgaonkar and Bambah at their meeting with Professors R. Sridharan and K.G. Ramanathan seems adequate for the present).
- (ii) Senior appointments should be made with the aim of getting really first rate mathematicians irrespective of their areas of specialisation (and in whose selection the School of Mathematics should be involved). Identifying areas of specialisation should be made only after this; the senior appointees could decide about this.
- (iii) Every effort should be made to attract really outstanding people. Stringent administrative procedures are known to deter good scientists from accepting positions in our universities. The university should be willing to be flexible in such matters. In this connection if joint appointments with T.I.F.R. would be of any help, the School of Mathematics would be willing to explore such possibilities. (First rate Indian mathematicians are rather small in number. Many

(159)

of them are settled abroad and they are accustomed to working conditions of a much pleasanter kind than what normally obtains in India and the University should attract them by higher scales of pay, at least such as recommended by the U.G.C. Building of a good department is impossible unless one is able to attract such men).

- (iv) The academic matters of the Centre should be decided by its Faculty which should consist of the members of the Centre and the Centre should be autonomous in all academic matters: (for instance when questions of offering scholarships, granting extensions of scholarships etc. are considered, the Centre should be able to take decisions without being tied up with regulations about qualifications, publications etc. Also, subject to the budgetary allocation, the Centre should be free to utilise the grants without seeking further permission of the administration).
- (v) Provision should be made for 2 or 3 short term (high) visiting positions. This may be especially useful in getting the services of good Indian mathematicians living abroad.
- (vi) As hitherto the T.I.F.R. will depute two staff members to work at the Centre in consultation with the head of the Centre. A suitable procedure must be evolved so that they will be recognised as teachers at the university (upto and including the Ph.D. level), so that the kind of unpleasantness which occurred last year is not repeated. The rank they hold at the centre may be determined by mutual consultation between the Dean, Mathematics Faculty of the T.I.F.R. and the head of the Centre and the recommendations reached after such joint consultation should be automatically accepted by the university. As long as they work in the Centre they will be part of the Faculty of the Centre and enjoy all the privileges.
- (vii) When the new Board of Studies in Mathematics is reconstituted, it is desirable, that the mathematicians deputed from the T.I.F.R. should automatically become its members.
- (viii) The Centre might also think of offering joint research scholarships with the Tata Institute.

p.t.o.



- (ix) A Steering Committee consisting of two people from the Department of Mathematics and two from the School of Mathematics, T.I.F.R. may be formed to work out the collaboration.

We think that collaboration with the Centre will be fruitful only if these suggestions are incorporated in the working arrangements in substance.

Sahani

(67)

Report of the Assessment Committee appointed by the University Grants Commission for the Centre of Advanced Study in Mathematics, University of Bombay.

...

The University Grants Commission, on the recommendations of the Standing Committee for the Centre of Advanced Study Programme, appointed an Assessment Committee consisting of the following members to evaluate the work done by the Centre of Advanced Study in Mathematics, Bombay University during the ten years period; 1963-64 to 1973-74.

1. Professor K.G. Ramanathan
Tata Institute of Fundamental Research
Bombay
2. Professor M. Venkataraman
Head of the Department of Mathematics
Madurai University
Madurai
3. Dr. D. Shankar Narayan
Additional Secretary
University Grants Commission.

The Committee visited the Bombay University on 5th December, 1973 and had discussions with the Head of the Centre and other staff members and also the university authorities. It reviewed the work of the Centre with regard to its teaching and research programmes and its collaboration with the Tata Institute of Fundamental Research, Bombay.

The University Grants Commission recognised the Department of Mathematics, Bombay University as a Centre of Advanced Study in 1963 to develop a school in the areas of Pure Mathematics in collaboration with the Tata Institute of Fundamental Research, Bombay. The Commission provided substantial support over the last ten years for this Centre for increasing its facilities of accommodation, library books and journals, academic staff, administrative staff as well as research groups. The details of the assistance made available for different purposes is given in Appendix-1. In addition, the Centre also received assistance under the U.K. Assistance Programme through the agency of the University Grants Commission. The CAS in Bombay has three Professors (S.S. Shrikhande, U. Shukla and S.S. Rangachari. The last named is on deputation from the Tata Institute but however is

(162)

paid by the CAS). Professor (S. Raghavan) has been loaned by the TIFR. He is however paid by the Institute. Professor K.R. Parthasarathy who was formerly at the CAS resigned last year.

The present academic staff of the Centre of Advanced Study includes 3 professors, 3 readers, 2 research associates and 2 lecturers. The number of research fellows include 7 senior research fellows, 17 junior research fellows, 4 research scholars. The number of students enrolled for M.A./M.Sc. in Mathematics is about 50 students. The main activities of the Centre include participation in the M.A./M.Sc. teaching programme, organisation of teacher fellowship programme for teachers drawn from affiliated colleges in the country and conducting research in various fields of Mathematics. The department has also taken initiative to update and revise the syllabus for Master's degree in Mathematics at Bombay University and has introduced new elective papers on (1) Functional Analysis, (2) Graph Theory, (3) Non-linear Mechanics, (4) Numerical Methods, (5) Special topics in Fluid Mechanics. The topics at (3), (4) and (5) are taught by some teachers at the colleges. The CAS has no expertise in these subjects. The staff of the Centre have a major responsibility for teaching these subjects at the Master's degree level. Under the teachers' training programme which this Centre has implemented during the last eight years, annually six teachers drawn from different affiliated colleges, at least 50% from outside Bombay University, have been able to take up study and research for an academic year. The selected teachers are encouraged to study subjects which they did not have an opportunity to study earlier and also to give lectures on selected topics. Some of the teachers are also initiated to do research and in one case, has been awarded Ph.D. as well.

The major research activities of the Centre are in Graph Theory and Combinatorial mathematics centring around Professor Shrikhande, and Number Theory and its ramifications centring around Professors Raghavan and Rangachari. Algebra is a very small group and the research students work with the Professors at the Institute. Functional analysis and Topology is a very small and so far ineffective group. There are no research students in this group. The Centre has a very active group in Combinatorial Mathematics and Graph Theory. Over the past ten years, the department has published about 80 research papers. The Centre has awarded only 3 Ph.Ds. two others have just now submitted their Ph.D. theses. This Centre has also organized in collaboration with the Tata Institute of Fundamental Research a number of summer schools on specialised topics as indicated below:

163

1. Summer School in "Galois Theory" (1964)
2. Summer School in "Algebraic Number Theory" (1965)
3. Summer School in "Functional Analysis" (1968)
4. Summer School in "Semi Simple Rings" (1969)
5. Summer School in "Lie Groups" (1970)
6. Summer School in "Homological Methods in Commutative Algebra"
7. Summer School in "Quadratic forms and Orthogonal Groups" (1972).

Besides this, the Centre has undertaken organisation of summer schools for undergraduate college students in the years 1966, 1971 & 1972. The Centre works as already mentioned in close collaboration with the Tata Institute of Fundamental Research in its teaching and research activities. The library facilities and services of a professor have been made available by the TIFR. The two schools of Mathematics together take responsibility for guiding Ph.D. students.

Under the UK Assistance Programme, the department has been able to attract a number of British Mathematicians to work in the Centre and to give courses of lectures, some of them have also been published by the Centre. The details are given below:

1. Professor D. Rees of Exeter of University (Queen Mary College), England, during December 1966 to January, 1967 and gave a course of lectures on "Filtered Frobenius Algebras".
2. Professor B.J. Birch of Oxford University spent about two months in the Centre from November 1970 to January, 1971 and gave the course of lectures on "Elliptic Curves and Modular Functions".
3. Professor D.R. Hughes of Westfield College, London, is presently in the Centre for a month's visit and delivering lectures on "Polarities and the Little Projective Group".

Notes of lectures of Professor Rees and Birch had been written and sent to the lecturers for comments and corrections. In spite of repeated requests they have not been sent back to the university.

It has also been able to send some of its faculty members for work in U.K. particularly at the Mathematics Institute of the Warwick University. The staff have also participated in a number of International conferences and symposia in the field of Mathematics.

p.t.o.

(164)

The Committee, during its visit, discussed with the faculty several aspects relating to the functioning of the Centre, such as, teaching and research programmes, the measure of autonomy enjoyed by the department within the university framework, its efforts to function as an all-India centre by attracting students and scholars as well as faculty from different parts of the country, the facilities and particularly library services available, the quality of the M.Sc. and the Ph.D. students as well as any difficulties experienced by the Centre in its organisation and administration. The Committee also discussed the role played by the Advisory Committee in helping the activities of the Centre of Advanced Study.

The Committee is happy to note that the Centre has been able to make substantial contributions in the area of its specialisation in Mathematics. The department has been active in curriculum development and has been able to bring about revision of syllabi and other curriculum reforms by involving college teachers as well and has organised a number of short term courses and summer institutes for the benefit of college teachers and other research workers in Bombay University. The department has enjoyed substantial measure of autonomy in academic matters. While efforts have been made to attract students and scholars on an all-India basis, this, of course is limited to some extent because of lack of residential facilities. The department has moved recently to the new campus and the space available to it, is inadequate to meet its needs and the increasing number of research fellows coming to the department.

Although the Centre has been able to attract some established Indian mathematicians working abroad to come to the Centre, it has not been able to retain their services because of the living conditions and difficulties of living accommodation in the city of Bombay. The Committee appreciates the efforts made by the University Grants Commission to provide for personnel positions when the Centre has been able to locate and invite distinguished mathematics people to be on its staff. The Committee feels that it should be possible for the University Grants Commission to help this and other centres of advanced study in Bombay University to overcome this difficulty by providing some common residential facilities for research workers and faculty during the Fifth Plan period. The teachers training programme undertaken by the Centre has been of value in improving the general mathematical equipment and teaching potential of the teachers from affiliated colleges and should therefore be continued and strengthened in future years.

With the increase in the activities of the Centre, it would be necessary to further add to the faculty strength as well as provide for increased amounts for various purposes. The Committee was given to understand that the University Grants Commission has decided that at the end of the initial ten years period of support from the University Grants Commission, the present level of recurring expenditure will

(165)

have to be taken over by the Bombay University as committed maintenance expenditure in consultation with the State Govt. and that such a financial arrangement would help in releasing the plan financial resources for further strengthening the activities of the Centre and also to provide for new activities that may be initiated. The Committee however is apprehensive of the fact that consequent upon the merger of the existing recurring support in the maintenance grant of the University, several specialised features of assistance now available to the Centre, e.g., seminars, publications, travel, visiting fellowships etc., may not be made available to the Centre and the University may tend to treat this as one of the departments in the University. The Committee therefore requests the university authorities to ensure that the existing level of support for different identified purposes would continue to be available for this Centre from out of the maintenance grant. The University Grants Commission should provide assistance to supplement this during the Fifth Plan period. The Committee also understand that the University Grants Commission would want the Centres of Advanced Study to obtain a substantial part of the support by developing research projects which would be considered by the Science Research Council of the University Grants Commission. The Committee would like to point out here that while such an approach may be reasonable, to some extent, in the case of the Centres of Advanced Study in Science subjects and particularly those in Applied Science areas, it may be difficult for centres in subjects, such as, Pure Mathematics to write out such result-oriented time-bound research projects. The work in Pure Mathematics should therefore be supported on an open-ended basis if India is to make substantial contributions in the field of Pure Mathematics, without being subjected to the usual R & D approach. The Committee hopes that this particular aspect of the development of Mathematics would be kept in view by the concerned authorities and the University Grants Commission would continue to provide substantial support for this and other centres of advanced study in Mathematics which have done well in the past ten years and have made serious efforts to fulfil the objectives and goals of the centres of advanced study programme. The proposals to be received from this centre with regard to additional staff, library books and journals, additional space for research workers, various fellowships and working expenses should therefore be supported by the University Grants Commission during the Fifth Plan period. It may also be possible for a few research workers to write research projects which could be accepted by the Science Research Council of the University Grants Commission but this support would still be only marginal in the case of Mathematics.

The Committee wishes to express its thanks to the Vice-Chancellor and other university authorities and to the Head of the Centre and other faculty members for the co-operation extended to the Committee in their work.

Centre of Advanced Study in Mathematics -
Bombay University.

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Non-recurring

<u>Item</u>	<u>Grant approved during 4th plan</u>	<u>Grant released so far</u>
Books and journals	Rs.30,000	Rs.30,000
Additional grant during 1972-73	Rs.15,000	Rs.15,000
Additional grant during 1973-74	Rs.15,000	Rs.15,000

Recurring

<u>Academic posts</u>	<u>Approved</u>	<u>Filled in</u>
Professor	3	3
Readers	2	2
Research Associates	2	1
Senior Fellows	3	2
Junior Fellows	4	4
National Scholarships	10	6
Teacher Fellows	6	6

Ceiling grants

<u>Item</u>	<u>Ceiling grant approved</u>
Admn.& Technical staff	Rs.11,500
Visiting Fellows	Rs. 8,000
Seminars	Rs.10,000
Publications	Rs. 2,000
Travel	Rs. 5,000
Books & journals	Rs.22,500
Contingencies	Rs. 3,000

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

169

Meeting :

Dated : 21st February, 1977.

Item No. 28 : To consider a scheme 'adult education through universities' received from the Ministry of Education.

The Ministry of Education has formulated a scheme on 'adult education through universities'; the objective of the scheme is to bring universities closer to the Community by involving them to undertake such specific projects/activities as will lend direct support to the ongoing country wide programmes of non-formal education viz. i) farmers functional literacy programme, ii) non-formal education programme for youth in the age group of 15-25, and iii) followup reading services for non-literate adults, etc. The scheme received from the Ministry of Education in this regard is enclosed (Annexure).*

Under the above mentioned overall objectives, the universities wishing to participate in the scheme would be expected to undertake, among others, the following types of activities:-

- a) Field operational activities
- b) Establishment of Resource Centres
- c) Building up professional Cadre of Adult education.
- d) Establishment of Centres/Unit of Non-formal Education studies.

The above scheme is to supplement the efforts being made by the University Grants Commission to establish and develop centres of adult and continuing education in the universities. The scheme is to be implemented by the Commission on behalf of the Ministry of Education, and funds will be placed at the disposal of the Commission for disbursement to various universities undertaking the above programmes.

The Ministry of Education proposes to provide Rs. 28 lakhs for the remaining three years of the 5th Five Year Plan. Out of this, a provision of Rs. 3 lakhs has been made in the revised budget estimates for 1976-77 and the remaining 25 lakhs will be available for the remaining two years.

The Ministry of Education has referred the above scheme to the Planning Commission for their views. The Planning Commission will be discussing the scheme in a meeting on 22nd February 1977.

The matter is placed before the Commission for information at this stage.

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ADULT EDUCATION THROUGH UNIVERSITIES

Objectives

168

The role of universities in adult/continuing education was highlighted in the report of the Education Commission (1964-66) which was followed by a further stress by a UGC Committee (1970) on this subject. As a consequence, a few universities set up Departments of Adult/Continuing Education with assistance from UGC, to organise professional courses on different subjects of interest to non-formal education.

The objective of this scheme will be to bring universities closer to the community by involving them to undertake such specific projects/activities as will lend direct support to the ongoing countrywide programmes of non-formal education viz. (i) farmers' functional literacy programme; (ii) non-formal education programme for youth in the age group of 15-25 (iii) follow up reading services for neo-literate adults etc. etc.

Types of activities:

Under the above mentioned overall objectives, the universities wishing to participate in this scheme would be expected to undertake, among others, the following types of activities.

i) Field operational activities:

This should include organisation of experimental and pilot programmes in non-formal adult education to provide field work-base to the participants which is so essential to develop the academic programmes. Such field-based activities could include area surveys, field investigation for identification of area needs; field operational seminars for the adult educators and front-line workers at the grass root level.

ii) Establishment of Resource Centres:

This concept is based on the recommendation of the standing committee of CABE on Non-formal Education. The relevant Resolution of this Committee stresses the importance of setting up State Resource Centres for the purpose of organising "training activities, curriculum development, preparation of diversified learning/instructional materials and other necessary services". Such activities of the universities participating in this scheme could also include organisation of workshops/seminars/conferences and publications of books/pamphlets for the proper appreciation of the

169

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concept and significance of non-formal education, development / curricular programmes to serve as base for instruction/learning; preparation of instructional/ learning materials in the regional languages and dialects; evaluation of the programmes and technical guidance, training of key personnel assistance in training programmes organised for field workers, etc. etc.

iii) Building up professional cadre of adult educators:

Under this activity the universities participating in the scheme could institute fellowships for persons wishing to participate at Master/Degree level or Ph.D. Courses in non-formal education/adult education. Such activities should strengthen the professional base of adult educators and would create leadership for the programmes of non-formal/adult education in the country,

iv) Establishment of Centres/Units of Non-formal Education Studies.

In a very few universities which are desirous of playing a Role in the progress of Non-formal Education in the country. Such a Centre/Unit would provide graduate/post-graduate programmes and would also undertake relevant research. Besides, it may develop into a resource centre for curriculum development, production of teaching-learning materials, evaluation etc.

Modus Operandi

For the implementation of the above mentioned activities, the funds provided under this scheme will be placed at the disposal of UGC who will be responsible for implementation of this scheme on behalf of the Ministry. Funds will be released to the UGC on annual basis, on the basis of the projects/activities sanctioned in each year. The UGC will maintain separate accounts for this scheme and will render the same to the Ministry.

Financial Position.

For the remaining 3 years of the 5th Five Year Plan, an amount of Rs. 28 lakhs may be available under this scheme as approved in the 5th Plan revised outlay. Out of this, a provision of Rs. 3 lakhs has been made in the revised budget estimates for 1976-77 and the remaining 25 lakhs will be available for the remaining two years of the 5th Plan i.e. 1977-78 and 1978-79. Thus a beginning will be made on a modest scale during the current financial year within an allocation of Rs. 3 lakhs.

UNIVERSITY GRANTS COMMISSION

170

Meeting:

Dated : 21st February, 1977.

Item No. 29 : To consider the revised proposals of the Bangalore University for the construction of Science Blocks at the New Campus and purchase of Books and Journals and science equipments within the overall fifth plan allocation.

The Bangalore University has submitted revised proposals for the construction of buildings, books and journals etc. for implementation during the remaining period of the fifth five year plan as detailed below:-

(a)	i)	Construction of Botany Block	Rs. 20.46 lakhs.
	ii)	Construction of Zoology Block	Rs. 23.73 lakhs.
	iii)	Construction of Mathematics & Statistics Block	Rs. 16.63 lakhs.
	iv)	Construction of Chemistry Block (in the first instance)	Rs. 30.00 lakhs.
			<hr/>
Total			Rs. 90.82 (in the first instance)
UGC's share is 50%			Rs. 45.41.
(b)	i)	Books and Journals	Rs. 19.95 lakhs
	ii)	Equipments	Rs. 24.20 lakhs
	iii)	Buildings (humanities block-recommended by the visiting Committee in the 3rd priority)	Rs. 7.50 lakhs.
			<hr/>
Total			Rs. 97.06 lakhs

The expenditure is proposed to be met as under :

- i) By savings anticipated in recurring grant for additional posts sanctioned Rs. 23.00 lakhs

* The break-up of these posts has not been given by the University. according to the calculations made on a rough basis likely expenditure towards the additional posts approved by the Commission under first, second and third priorities comes to about Rs. 32.00 lakhs. It, therefore, implies that the University wants to fill up a few posts only.

UNIVERSITY GRANTS COMMISSION

170

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(171)

	<u>in lakhs</u> **
ii) By appropriation (approved vide Commission's letter No.F.82-5/75(DIC) dated 23.11.1976	Rs. 9.40 (This has not been agreed to)
iii) Grant proposed under third priority by the Visiting Committee for Humanities block.	Rs. 7.50 +
iv) Saving anticipated under fellowships	Rs. 2.50***
v) Saving anticipated under Misc. items.	Rs. 3.00 ****
vi) Books and Journals under priorities 2nd and 3rd	<u>45.40</u> Rs. 19.95
vii) Scientific Equipments under Priorities 2nd and 3rd	Rs. 24.20
viii) Building under third priority (Humanities block)	Rs. 7.50
	<u>Rs. 97.05 lakhs</u>

*p 182 ** In Commission letter of 23rd November, 1976 (Annexure II) *referred to by Vice-Chancellor it has been communicated to the University that it may re-adjust the amount of Rs. 15 lakhs (UGC share being Rs. 7.50 lakhs) among its building programmes. Although the amount of Rs. 9.40 lakhs is on items included by the Commission in the first phase for building works the Commission has not specifically agreed to, to the reappropriation of this amount for items other than one already approved. It was expected that the University will send revised proposals after readjusting this amount.

+ The amount of Rs. 7.50 lakhs has been included twice.

*** Amount for fellowships is outside fifth plan allocation.

**** This is the amount allocated for Faculty Improvement programme, Visiting Fellowships and Publications under third priority.

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174-131 A copy of the letter from the Vice-Chancellor of the University is attached (Annexure I). In this connection, the following are mentioned:-

a) The Commission has already allocated an amount of Rs. 132.98 lakhs exclusive of fellowship amount) in the first phase against the initial allocation of Rs. 2.00 crores which is 2/3rd of the initial allocation, and therefore, the balance of 67.00 lakhs is now available to the University for second and third priority programmes.

The proposals already agreed to by the Commission for implementation during fifth plan in the first phase and those included in the second and third priorities (not agreed to by the Commission so far) are given below :-

<u>Purpose</u>	<u>Rs. in lakhs</u>		
	<u>Ist Phase</u> Rs.	<u>2nd Priority</u> Rs.	<u>3rd Priority</u> Rs.
1. Spill-over	31.50		
2. Basic allocation (Books and equipment)	12.50		
3. Schemes approved prior to the recommendations of the visiting committee.	7.88		
<u>New Allocation</u>			
4. Books and Journals	12.90	7.20	12.75
5. Equipment	17.00	10.00	14.20
6. Buildings	16.50	-	7.50
7. Misc.	7.90	-	3.00
8. Staff (recurring) (29R, 25L, 18 others)	26.80	-	5.20
	<u>132.98</u>	<u>17.20</u>	<u>42.65</u>

Total of I & II Phase Rs. 192.85 lakhs (This is exclusive of Rs. 7.20 for 36 fellowships recommended by the Visiting Committee).

173

3. The main points about the present proposal of the University are as under :-

- a) The present proposal for the construction of Science Blocks was not recommended by the fifth plan visiting committee.
- b) The University wishes not to fill the teaching posts and divert the funds from recurring to the non-recurring items. In this connection, it may be stated that the Commission has sanctioned posts and has not allocated any specific amount for these posts and therefore, the question of diversion of funds from recurring to non-recurring items does not arise. Moreover, it has been the policy of the Commission so far, not to allow such diversion of funds.

It is therefore, for consideration whether:

- a) the University may be allowed to reappropriate funds to the extent of Rs. 45.40 lakhs (the actual amount will be Rs. 42.90 as the amount of Rs. 2.50 lakhs shown as savings under Fellowships is actually outside the fifth plan allocation.) From the various recurring and non-recurring items approved under first, second and third priorities for the construction of Science Blocks at the new campus. If the proposal of the University is accepted so, the amount of Rs. 7.50 lakhs allocated for the construction of Humanities Block under third priority may not be available to the University for that purpose.
- b) the amount of Rs. 19.95 lakhs allocated for purchase of Books and Journals and Rs. 24.20 lakhs for the purchase of Science Equipment under second and third priorities may be released to the University.

The matter is placed before the Commission for consideration.

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(177)

Annexure I to Item No 29

Copy of the D.O.Letter No. DEV/DI/PLN/15/75-76 dated 25th January 1977 from Dr. H. Narasimhaiah, Vice-Chancellor, Bangalore University addressed to Shri R.K.Chhabra, Secretary, U.G.C.

Sub:- Development Schemes of the Bangalore University for the Fifth Plan period 1974-79- Proposal for release of balance of grant-req.

Ref:- Your D.O.Letter No.F.27-7/73(CP), dated 8.1.1977

Kindly refer to your D.O.Letter No.F.27-7/73(CP) dated 8th January 1977 informing the University that the proposals for the release of financial assistance for books, journals and equipments including the proposals if any, that were different from the recommendation made by the Fifth Plan Visiting Committee could be sent to the Commission to sanction additional financial assistance during the Fifth Plan. The Commission also suggested that new proposals which were not placed before the Visiting Committee could also be considered, provided such proposals are strong and considered absolutely essential in the context of improvement of standards of instructions and research in the University.

I wish to mention in this connection, that on the establishment of Bangalore University in the year 1964, the State Government decided to locate the Bangalore University at a place eight miles away from the city with an extent of land comprising about 1000 acres. Thereafter, the development of the New Campus project was immediately taken up at the commencement of the Fourth Plan. In the year 1973, All the administrative offices were shifted to the New Campus on the completion of administrative block. University also shifted fifteen post-Graduate Departments coming under Arts, Humanities and Social Sciences to the New Campus on the completion of Humanities Block Library building, Teachers Hostel, Men's Hostel, Women's Hostel, Canteen, Health Centre during the Fourth Plan. The University also shifted the Department of Civil Engineering to the New Campus. Now, only the Science Departments viz. Physics, Chemistry, Botany Zoology, Mathematics, Statistics, Geology and Geography are functioning in the City Campus. The Departments of Geology and Geography will also be shifted by the end of March 1977 on the completion of the Geology Block at the New Campus. It has been the policy of the University and the State Government to shift all the departments from the City Campus to the New Campus before the end of the Fifth Plan. Unless, all the Science Departments are also shifted to the New Campus, there will be considerable dislocation in the academic and inter-disciplinary activities in the New Campus. From the point of view of effective

(175)

working of the University Departments also, it is absolutely essential to take up immediately the construction of Science Blocks at the New Campus. With this in view, I have sent proposals to the Commission for sanctioning the assistance for the construction of Zoology, Botany, Mathematics, Statistics, Physics and Chemistry Blocks at the New Campus and any delay in taking up the construction work for these blocks will not only result in increase in the cost of construction but continue to hamper the effective working of the University Administration. The proposal for the construction of Science Blocks is now of extremely essential and urgent and any postponement will entail severe dislocation in the development programme of the University. Hence, the University has decided to give first priority in the allocation of balance of 1/3rd grant of Fifth Plan for taking up the Science Blocks.

In this connection, I wish to mention that the Commission in the Fifth Plan sanctioned 29 posts of Readers, 25 posts of Lecturers and 18 other miscellaneous posts and allotted a grant of Rs.16.50 lakhs under the first priority and Rs.10.30 lakhs under second priority bringing the total to Rs.26.80 lakhs. Under the third priority, four posts of Readers, nine posts of Lecturers and one post under miscellaneous category were recommended by the Visiting Committee with a probable expenditure of Rs.5.20 lakhs. Due to administrative difficulties and the formalities to be observed in the constitution of Board of Appointments etc., the University will not be in a position to spend the entire recurring grant of Rs.32.00 lakhs recommended by the Visiting Committee under first, second and third priorities. Against this allocation, the University might require a grant of Rs.9.00 lakhs only during the remaining two years i.e., 1977-78 and 1978-79 and the balance recurring grant amounting Rs.23.00 lakhs is proposed to meet the cost of the Science Blocks to be taken up by the University.

While the University would not divert the grants recommended by the Visiting Committee under different priorities for books and journals, equipments, it is only the savings anticipated under the salary of teaching staff, fellowship and miscellaneous items are proposed for reappropriation to meet the cost of construction of Science Blocks.

I furnish herewith our requirements in respect of books and journals, equipments and other items:-

	Second Priority	Third Priority	Total
1. Books and Journals	7.20	12.75	19.95 lakhs
2. Equipments	10.00	14.20	24.20 lakhs
3. Buildings	-	7.50	7.50 lakhs
			<u>51.65 lakhs</u>

Following are the savings anticipated under the salary of the additional posts sanctioned by the Commission during the Fifth Plan including four posts of Readers, nine posts of Lecturers and one post under miscellaneous category recommended by the Visiting Committee under the third priority and also under fellowship and miscellaneous items:-

(A) ADDITIONAL TEACHING POSTS:

1. Probable expenditure in respect of 33 posts of Readers, 34 posts of Lecturers and 19 other posts upto 31.3.1979	Rs.9.00 lakhs
2. Savings anticipated out of Rs.32.00 lakhs	Rs.23.00 lakhs
Total:	<u>Rs. 32.00 lakhs</u>

(B) FELLOWSHIPS

1st Priority	Rs.6.00 lakhs
2nd Priority	Rs.1.20 lakhs
Total	<u>Rs.7.20 lakhs</u>

Anticipated expenditure upto 31.3.1979	Rs.4.70 lakhs
Savings anticipated	<u>Rs.2.50 lakhs</u>
Total	<u>Rs.7.20 lakhs</u>

(C) Miscellaneous Items

1st Priority	Rs.6.90 lakhs
2nd Priority	Rs.1.00 lakhs
3rd Priority	<u>Rs.3.00 lakhs</u>
Total	<u>Rs.10.90 lakhs</u>

Anticipated expenditure upto 31.3.1979	Rs.7.90 lakhs
Savings anticipated	Rs.3.00 lakhs
Total	<u>Rs.10.90 lakhs</u>

The following items sanctioned by the Commission in the Fifth Plan have been proposed for reappropriation for meeting the cost of construction of different Science Blocks:

1) Women's Hostel	Rs. 4.50 lakhs
2. Teacher's Hostel	Rs. 3.00 lakhs
3. Construction of Cold-room, Aquarium and Animal House under Miscellaneous items	<u>Rs. 1.90 lakhs</u>
Total:	<u>Rs. 9.40 lakhs</u>

(117)

11

The Commission in their letter No.F.82-5/75(DIC), dated 23rd November 1976 (Copy enclosed) have conveyed their acceptance in principle for the above reappropriation. Thus, following grant are available to meet the cost of the proposed Science Block in the New Campus:

1)	By savings anticipated in recurring grant of additional posts sanctioned	Rs. 23.00 lakhs
2)	By appropriation (approved by the Commission vide letter No.F.82-5/75 (DIC) dated 23.11, 1976)	Rs. 9.40 lakhs
3)	Grants proposed under third priority by the Visiting Committee for Humanities Block.	Rs. 7.50 lakhs
4)	Savings anticipated under Fellowship	Rs. 2.50 lakhs
5)	Savings anticipated under Misc. items	<u>Rs. 3.00 lakhs</u>
	Total	Rs. 45.40 lakhs

Following break-up details are furnished with regard to construction of Science Blocks proposed to be taken up in the Fifth Plan:

1)	Construction of Botany Block	Rs. 20.46 lakhs
2)	Construction of Zoology Block	Rs. 23.73 lakhs
3)	Construction of Mathematics and Statistics Blocks	Rs. 16.63 lakhs
4)	Construction of Physics and Chemistry Blocks (in the 1st instance)	Rs. 30.00 lakhs
	Total	Rs. 90.82 lakhs
	50% share of the Commission	Rs. 45.41 lakhs

Deduct amount proposed by reappropriation of the sanctioned grants Rs. 9.40 lakhs

The cost towards the construction of Science Blocks amounting to Rs.36.00 lakhs is proposed to be met as follows:-

1)	By savings from additional teaching staff.	Rs. 23.00 lakhs
2)	Building recommended under third priority for Humanities Block.	Rs. 7.50 lakhs

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3)	Grant recommended under third priority under miscellaneous items.	Rs. 3.00 lakhs
4)	Savings anticipated under Jr. Fellowships.	Rs. 2.50 lakhs
		Rs 36.00 lakhs
Total		

Under these strong and compelling grounds, it is requested that the U.G.C. will kindly accept this proposal on a special consideration to this young and developing University which was established only 12 years ago.

* Development Grant had already spent over Rs.60.00 lakhs for the lands acquired for building up the New Campus Project. It is our earnest hope to make this Campus a self-contained and compact one, housing all the University Department at one place to have effective working of the University.

It is under this background that I am approaching the Commission to kindly accept our proposal to sanction a grant of Rs.36.00 lakhs out of the balance grant to be allocated to the University during the Fifth Plan.

I am also enclosing herewith a statement showing the grants sanctioned by the Commission during the Fifth Plan, amount released and the progress of expenditure on different items. The University would be spending the amount already sanctioned by the end of the current financial year.

I am also requesting the Commission to kindly convey their approval to the plans and estimates already sent to the Commission earlier towards the construction of various Sciences Blocks so that immediate action would be taken without loss of time to fix up the agencies and start construction work before the end of March 1977.

It is therefore requested that an amount of Rs.36.00 lakhs which is absolutely essential to meet the constructional cost of Botany, Zoology, Mathematics, Statistics, Physics and Chemistry Blocks during the Fifth Plan may kindly be considered for sanction under the remaining 1/3rd grant available for allocation.

Although, this proposal was not included in the report of the Visiting Committee in the circumstances explained by me in several letters and particularly in D.O. Letter dated 5.1.1977 addressed to the Commission taking up for construction of science Blocks in the New Campus is imperative and inevitable

P.T.O.

considering the fact that all the Post-Graduate Departments in Humanities and Social Sciences are functioning in the New Campus and it is the policy of the University and the State Government to shift the all the remaining Science Departments to the New Campus by the end of 31st March 1977. The University has forwarded detailed plans and estimates in respect of construction of Science Blocks to the Commission for sanction. Tenders have also been called for and 15.2.1977 has been fixed as the last date for receipt of various tenders. We are awaiting only the approval of the Commission to sanction the financial assistance to our programmes to start the work.

The summary of the proposals now given would be as follows:-

1) Grants required for books and journals (Total of second and third priorities)	Rs. 19.95 lakhs
2) Grants required for equipment under second and third priorities	Rs. 24.20 lakhs
3) Grants recommended for building for Humanities Block under third priority	Rs. 7.50 lakhs
4) Grants sought for to meet the cost of construction out of savings from additional teaching staff, fellowships and miscellaneous items	Rs. 28.50 Lakhs
Total	<u>Rs. 80.15 lakhs</u>

I also request the Commission to kindly convey their approval for the creation of the posts of four Readers, nine Lecturers and one post under other head as recommended by the Visiting Committee under third priority.

I will be extremely grateful to you if early approval of the Commission is obtained and communicated relating the financial assistance of Rs.80.15 lakhs for buildings, books and equipments.

(185)

BANGALORE UNIVERSITY

PROGRESS ON THE IMPLEMENTATION OF THE FIFTH PLAN
U.G.C. PROGRAMMES IN THE BANGALORE UNIVERSITY

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The University Grants Commission on the recommendation of the Visiting Committee Sanctioned the following grants to the Bangalore University during the Fifth Plan:

- (1) Grants released during the 1974-75 and treated as spill over expenditure and charged to the fifth plan allocation. Rs. 31.50 lakhs
- (2) Basic grant sanctioned by the Commission before the consideration of recommendation of the Visiting Committee
 - (a) Library Books & Journals ..Rs.5.00 Lakhs
 - (b) Purchase of Scientific Equipments ..Rs.7.50 Lakhs

Rs. 12.50 lakhs
- (3) Grants released by the U.G.C. for specific items during the Fifth Plan.
 - (a) Job Oriented Courses Rs.6.00 lakhs
 - (b) Purchase of Library Furniture. Rs.1.88 lakhs

Rs. 7.88 lakhs

The following are the new allocation of grants sanctioned by the University Grants Commission.

The Expenditure incurred on each of the item in the fifth plan is furnished below:

<u>Items</u>	Amount sanctioned	Grant released by U.G.C. on 31.12.1976.	Expenditure incurred upto date.
1	2	3	4
1. Purchase of Library Books.	12.90	8.38	12.00
2. Equipments for various departments including Communication.	17.00	7.30+ 2.00(for Printing Press)	14.00(bills to the extent of Rs. 3.00 lakhs on land.

Additional Teaching Staff

The Commission sanctioned creation of 29 posts of readers, 24 posts of lecturers & other 18 posts.

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181

	1	2	3	4
<u>Other Schemes:</u>				
Visiting Professorship	1.00		25,000	10,000
Faculty Improvement Programme.	4.00		-	-
Publication grant	1.00		-	-
<u>Buildings:</u>				
Construction of Geology Block (repairs to the existing building)	2.50		-	-
Additional Mens Hostel	3.00		-	-
(Tenders have been called for and agency is being fixed).				
Womens Hostel	4.50		-	- (*)
Teachers Hostel	3.00		-	- (*)
(*) These grants have been proposed for reappropriation for taking up the work of Science Blocks.				
Academic Staff Quarters.	3.50		-	-

Copy of Letter No F.82-5/75(DIC) dated 23 NOV 1976 addressed to the Registrar Bangalore University from (Mrs) (S. Ramamurthy) Assistant Secretary U.G.C. New Delhi.

182

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Sub: Higher Education & Research Development
Scheme to the University for the Fifth Plan.

Sir,

With reference to the Vice Chancellor's D.O. Letter No DEV(DI)/PLN/GRT/21/75-76 dated 30th August 1976 to the Chairmen, University Grants Commission on the above subject. I am directed to say that the proposal of Bangalore University for making certain changes in the construction of building projects already approved for the Fifth Plan and for an additional grant of Rs 70 lakhs (Rs 15 lakhs by reappropriation and Rs.55 lakhs by additional sanction) was considered by the Commission at its meeting held on 18th October 1976. The Commission could not accept at the present stage the proposals of the University for providing an additional grant of Rs 55 lakhs to enable it to construct the Science Block at its new campus. The Commission, however, agreed that in case the university desires to reallocate the provision of Rs 15 lakhs for buildings (on the usual sharing basis of 50:50 i.e., with Commission's share as Rs 7.5.lakhs) It may send a revised proposal for utilising this grant for building construction for the consideration of the commission.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

(183)

Meeting:

Date : 21st February, 1977

Item No. 30 : To consider a reference received from the Vice-Chancellor, University of Science of Malaysia requesting the UGC to send a delegation to participate in Southeast Asian Regional Conference on University Physics Education proposed to be held from 16th to 21st May, 1977 at Penang, Malaysia.

The Vice-Chairman, University Grants Commission, has received a letter from the Vice-Chancellor, University of Science of Malaysia, concerning the Southeast Asian Regional Conference on University Physics Education to be held from 16th to 21st May, 1977 at Penang, Malaysia, in which he has solicited his support for the proposed conference on behalf of the Organising Committee. The assistance required is to help bring in as many participants from India as possible to attend the Conference and it is expected that the University Grants Commission will be able to meet the travel and subsistence of a sizeable delegation of Physicists from India. A copy of the letter of the Vice-Chancellor, University of Science of Malaysia referred to above together with its enclosures, which give the information relating to the circumstances leading to convention of the proposed regional conference, selection of its venue, its purpose, etc. is enclosed as Annexure.

The matter is placed before the Commission for consideration with regard to the support that could be extended by the University Grants Commission towards the proposed South east Asian Regional Conference by way of sponsoring a delegation of Physicists from India to participate in the Conference and meeting the cost of travel and subsistence of such delegates. However, necessary clearances of the Government of India for participation in the above Conference will have to be obtained.

Copy

Annexure to Item No. 30

UNIVERSITI SAINS MALAYSIA
Minden, Pulau Pinang, Malaysia

181

Bil. Kami: C.44/2/i(Jld.4)

8 February 1977

Dr. B. Ramachandra Rao,
Vice-Chairman,
University Grants Commission,
Bahadurshah Zafar Marg,
New Delhi-110001.

Dear Dr. Ramachandra Rao,

Re: Southeast Asian Regional Conference
on University Physics Education
16-21 May 1977, Penang, Malaysia

1. Professor Chatar Singh, Dean of the School of Physics of this University, attended the International Conference on Physics Education held at Edinburgh in July, 1975, and noticed a lack of representation from the Asian countries. He also observed that it was difficult to come to a consensus on many of the issues discussed at the workshop sessions due primarily to the wide variation in course structures, in problems confronted and practices adopted by physicists from the developed and the developing countries of the world.
2. When he was called upon to join the panel to discuss "Where Have We Got to?", he suggested that Regional Conferences be held prior to International Conferences, whereat countries with similar problems in physics education could get together and identify their problems, and see if these could be analyzed and resolved on a regional basis.
3. Proceedings from such Regional Conferences should then be taken to an International Conference for further discussion, with the ultimate objective of finding international solutions to problems in physics education. The idea was well received by the international community of physicists at Edinburgh, and has since been subscribed to and supported by UNESCO Paris and the International Commission on Physics Education. On his return, Professor Chatar Singh approached the University to approve the organization of a Regional Conference on University Physics Education. Permission was granted and an Organizing Committee was formed, and it has drawn up a programme for the Conference, a copy of which is attached.
4. The reason for holding the Conference in a centrally-located country like Malaysia, is to enable the surrounding countries like Sri Lanka, India, Pakistan,

p.t.o.

185

- 2 -

Bangladesh, Burma, Thailand, Hong Kong, Philippines, Papua New Guinea, Singapore and Indonesia, to send participants. The Conference can be opened to include other countries like New Zealand, Australia, Fiji, Taiwan, Korea and Japan; but this will depend upon the financial support we get. The Organizing Committee would naturally like to invite as many speakers, delegates and participants as possible, from as many countries in the region; but unfortunately, there has not been very much financial support forthcoming thus far, except for US\$5,000/- from UNESCO Paris, and US\$1,000/- from the International Commission on Physics Education. The Organizing Committee needs a total of US\$15,000/- to be able to bring in sufficient speakers, delegates and participants from as many countries of the region as possible.

5. The Conference will not only be a prestigious meeting of physicists from the region, but will also attract a great deal of public attention to the efforts of the physicists in the developing countries. By holding the Regional Conference, it is our hope that science in general, and physics in particular, will become recognized and given a place of prestige in the countries of the region. It is also hoped that the holding of the Conference in Malaysia will enable the surrounding countries to send particulars in larger numbers, than might otherwise be the case, and enable the Asians to develop a programme of physics education at university level.

6. The Conference will provide an opportunity to overcome the isolation and frustration that so many highly-qualified physicists face in the region. We hope that the contacts established during such a gathering will provide sufficient inducement and stimulus to bring about regional collaboration in research and the exchange of physicists on a regional basis. We further hope that the success of this Conference will lead to other conferences on physics education being held in different parts of the region. The preliminary announcement of the Conference has been very well received and there are a large number of universities anxious to participate, but are unable to find the financial resources.

7. Finally, I will address myself to a couple of questions you are probably asking yourself:

(i) Why this region,
and (ii) Why this topic?

The answer to both is that hardly anyone in this region is doing research into university physics education, which is substantiated by IUPAP's recognition of "the astounding under-representation of the Third World in its contribution to, and participation in, physics research" (IUPAP's News

(186)

Bulletin 74-7 dated August 15, 1974). This is graphically demonstrated by the International Conference on Physics Education's "Survey of Literature on Physics Education", published after the Conference in Edinburgh (1975). In the survey, this region is made prominent by its lack of significant contributions. Similarly, a survey of institutions and personnel carried out recently by Dr. James F. McDivitt of UNESCO Jakarta, underscores the lack of interest of both institutions and physicists of this region, to research into physics education at the university level.

8. On behalf of the Organizing Committee, I would like to solicit your support of this Conference. The assistance required is to help bring in as many participants from India as possible to attend the Conference. We are hoping you will be able to pay for the travel and subsistence of a sizable delegation of physicists from India. The very rich experiences of India in physics education should be shared by all Asians in the region. The University would very much appreciate your assistance of Indian physicists, since support from other quarters is very limited.

9. I look forward to hearing from you soon.

Yours sincerely,

Sd/-

(Tan Sri Haji Hamdan Sheikh Tahir)
V ice-Chancellor
University of Science of Malaysia

c.c. The Chairman, UGC,
New Delhi (India)

Prof. Chatar Singh,
Dean,
School of Physics

(187)

SOUTHEAST-ASIAN REGIONAL CONFERENCE ON
UNIVERSITY PHYSICS EDUCATION

Date: Tentatively set for March or April, 1977. (The specific date will be that which is most convenient to the majority of the participants).

Place : Penang, Malaysia

Organised by: The Universiti Sains Malaysia in association with the Malaysian Institute of Physics.

Sponsored by: UNESCO and USM (thus far).

- Aims: 1. To identify, analyse, and compare physics curricula and approaches to physics education in Universities in Southeast Asia;
2. To discuss the ideas and recommendations of the 1975 International Conference on Physics Education (Edinburgh) with particular reference to Southeast Asia;
- and 3. to prepare guidelines for the development and improvement of physics education which may assist regional institutions and organizations to evolve relevant educational programmes.

Official Language: English.

Number of Participants:

Programme: Background information will be the Trend Papers and Report of the International Conference on Physics Education held at Edinburgh, Scotland, July 29 - August 6, 1975. Discussions will be based on invited papers (previously circulated) on the following topics:

1. Current Physics Courses and Curricula in Southeast Asian Universities (What is being taught).
2. Design, Development, and Evaluation of New Physics Courses and Curricula. (What should be taught and why).
3. New Approaches to Teaching and Learning of Physics. (How physics should be taught).
4. The Role of the Teaching Laboratory in Physics Education.
5. Post Graduate Education of Physicists.
6. Physics and Society in Southeast Asia.

Brief explanations of these topics are appended to this announcement. Other papers may be accepted on these topics and distributed to the participants as further background information.

Further Information can be obtained from:

Professor Chatar Singh,
School of Physics,
University of Science of Malaysia, Minden, Penang.
MALAYSIA.

188

TOPICS OF INVITED PAPERS

1. Current Physics Courses and Curricula in Southeast Asian Universities.

The paper will present a comprehensive survey of the existing physics curricula in universities in Southeast Asia. Comparisons will be made on the content, level, and emphasis in the courses offered at various universities. Little or no justification for the curricula/courses will be presented in the paper, though these will probably be given during the discussion of the paper.

2. Design, Development, and Evaluation of New Physics Courses and Curricula.

In contrast to the factual content of topic one, this discussion will attempt to define approaches and guidelines to the design and development of an overall undergraduate physics curriculum as well as its constituent courses. The discussion will concentrate primarily on the situations to be found in Southeast Asian Universities. Prototype curricula as well as methods of evaluating their effectiveness will also be discussed.

3. New Approaches to Teaching and Learning of Physics.

This discussion will identify ideas and current trends in physics teaching. Topic two identifies what should be taught and why. This topic however, is oriented to how physics should be taught.

4. The Role of the Teaching Laboratory in Physics Education.

This discussion will be restricted to the role of the teaching laboratory in Southeast Asian universities. It will be concerned with the relative importance of the laboratory compared to lectures and tutorials, as well as the design, development, and evaluation of laboratory programmes.

5. Post Graduate Education of Physicists.

This paper will discuss the need for training physicists beyond the first degree level for three distinct careers:

- (a) to serve mainly as staff members in university physics departments, with physics teaching as their major activity;
- (b) to serve mainly as staff members in tertiary-level institutions, with primary emphasis on research but including preparation for their teaching activities;
- and (c) to serve as research workers and in other activities in industry and in other professions and disciplines.

6. Physics and Society.

This broad topic will emphasise the responsibility of physics education towards public understanding of the scientific and technological issues involved in current problems of society in Southeast Asian Countries. Once priorities are specified, then programmes for their attainment can be outlined.