

GOA UNIVERSITY



ANNUAL REPORT

For the Year

1988 - 89

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C O N T E N T S
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Sub. Programme Systems Unit,
National Institute of Educational
Planning and Administration
17-B, S. Ashirbado Marg, New Delhi-110016
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P R E F A C E

In the fifth and final year of my stay at the University I feel very happy in presenting this fourth Annual Report for the academic year, 1988-89. Education is reconstructing and reorganizing the experiences gained from the past, adding new meaning to those experiences, and increasing the ability to improve upon what we have learnt. Having these objectives in view, the University did make some progress during the year under review. The most significant change was the restructuring of the courses at the Master's degree level, which was very successfully implemented during the current year, 1989-90. Our courses were shaped almost on the pattern of I.I.T. courses with pressure on learning, with continuous evaluation of what was learnt, and with scope for inter-disciplinary approach in the choice of the courses. We feel very happy that this new University has launched a new trend which does not exist anywhere in the traditional Universities. The entire credit for this essential reform goes to our academics who worked ceaselessly hard to evolve a very meaningful pattern. Another perceptible improvement we have had during the year was the early declaration of examination results at the undergraduate level. We finished all our B.A., B.Sc., B.Com., examinations by April end, and announced their results by May end, which helped the students community enormously. The year witnessed the first Convocation of the University as well.

Another landmark was in the area of sports where our New University won the Asutosh Mukherji Shield for football, being the champions at the national level. Goa takes to football as does fish to water. Yet our boys had not been seen even at zonal level, and in such circumstances to win All-India trophy was indeed a matter of great pride. In terms of campus peace and physical facilities, intellectual fervour and academic pursuits, conferences and seminars, co-curricular and extension services, and onward march in over-all growth of the University, the year witnessed steady progress.

Portraying in a nutshell, the various achievements of the University during the short period of four years of its existence, it is hoped that the present Annual Report will serve as a ready reference to all those interested in the affairs of the University.

I would like to place on record my deepest sense of gratitude to the Visitor for his valuable guidance, to the Government of Goa for its munificent grants, to the University Grants Commission and the Central Ministries concerned for the help and assistance in respect of funds extended to this University, to the members of the Executive Council, the Academic Council, the Court, the Planning Board and to the several Boards of Studies for their sincere support and full co-operation at every stage in implementation of the various academic, administrative and other activities undertaken by the University. I feel specially grateful to our faculty, which is the backbone of any University system, for its dedicated efforts to raise the level of our University. In equal measure I appreciate the positive response in all sectors of learning we have had from our student community, for whose future we all labour. Finally, I am thankful to each and every member of the administrative staff for its unstinted support at all times for they have worked like honey bees in a fruitful endeavour.

University Offices,
Taleigao Plateau,
Goa.

Dr. B. Sheik Ali
VICE-CHANCELLOR

March, 1990.

CHAPTER - I

I N T R O D U C T I O N

The Vice-Chancellor, on behalf of the Executive Council, has great pleasure in presenting to the Court the Annual Report of the University for the year 1988-89 as required under Section 26 of the Goa University Act, 1984.

I - General

Established on 1st June, 1985 as a teaching institution for higher education, the Goa University has completed the fourth year of its existence. This University had inherited from Bombay University a solid base of education structure which had been built brick by brick over twenty years, since the days of Goa's liberation, pertaining to every faculty, whether Arts, Science, Commerce, Law, Education, Engineering or Medicine. Due emphasis had been given to technical and professional education, with the result that this State could boast of having a Dental College, a Pharmacy College, an Engineering College, a Medical College, a College of Fine Art, a College of Education, two Law Colleges, four colleges exclusively for Commerce, five colleges of Arts & Science and one college exclusively for girls. Upon this solid structure of under-graduate courses was based the Centre of Post-graduate Instruction and Research (CPIR) with quite a few Departments relevant to the needs of the society. The CPIR, which had arrangements for post-graduate teaching and instruction in 13 subjects, formed the nucleus of the Goa University.

The University has by now been fully established. It conducted its first public examinations in 1988-89 for the students who were admitted to the first year during the year 1986-87. The term of the first University authorities appointed by the Visitor in exercise of powers vested in him under the Goa University Act, 1984 expired between June and August 1988 and all the authorities have since been re-constituted in accordance with the provisions of the Act and the Statutes. So we have now the re-constituted Executive Council, Academic Council, Court, Planning Board, Finance Committee, etc.

The Goa University was very fortunate enough to have a personality of the stature of Dr. Nagendra Singh, President of the International Court of Justice, the Hague, Netherlands as its Chancellor. Unfortunately, with his sad demise on 11th December, 1988, the University has lost not only his valuable guidance in its academic matters but a personality of an outstanding calibre.

II. Faculties and Academic Programmes

- a) Till 1987-88 the following teaching departments were functioning in the University : English, Hindi, Marathi, French, Economics, History, Political Science, Sociology, Philosophy, Mathematics, Physics, Chemistry, Microbiology, Marine Science, Geology, Konkani, Portuguese, Commerce and Computer Science & Technology.
- b) During the year under reference two more departments were created. These are the departments of Marine Biotechnology and Management Studies.
- c) This University is one of the 55 Universities in the country selected by the University Grants Commission, for the setting up of an Academic Staff College which started functioning early in 1988-89. The jurisdiction of this staff college extends not only to the area of this University, but also to that of the Shivaji University and four districts under the University of Bombay.
- d) A Centre for Latin American Studies sanctioned by the University Grants Commission, has also started functioning from the current academic year. To begin with, courses in History and Political Science of the Latin American countries have been offered at the M.A. level. Similarly, a Centre for Women's Studies also sanctioned by the University Grants Commission has also started functioning in the Department of Sociology.
- e) Two new colleges were started in the year 1988-89. These are one at Quepem and the other at Khandola. Set up by the Government of Goa, these colleges cater

to the need of undergraduate education in Arts, Science and Commerce. The Home Science College for Girls, which was originally started three years back by the All India Women's Conference (Goa Branch) but had to be dis-affiliated because of certain important reasons, was re-started by the Government of Goa from the current academic year.

- f) The University plans to set up in the near future a Department of Ecology and Environment Sciences. Recently, the University Grants Commission has called upon this University to put up a proposal for starting a course of study leading to the degree of M.Sc. in Electronics. The University Grants Commission has shown willingness to provide financial assistance, if the University agrees to start such a course. This matter is being examined in detail.
- g) An important development in the academic field is the restructuring of the courses leading to the post-graduate degrees in Arts, Science and Commerce. A Committee is also working for similar restructuring of the under-graduate courses in Arts, Science and Commerce.
- h) The University held a series of seminars and conferences bearing on the history and culture of Goa and brought out a few publications such as Goa Wins Freedom, Goan Society Through the Ages, Goa : Cultural Trends, Essays in Goan History and India and Mozambique.

III. Construction Programme

The construction activity of the University's new campus on the Bambolim-Taleigao Plateau is going on with full speed. The basic infrastructural facilities like roads, electricity, water supply, sewerage etc. are either completed or nearing completion. The administrative offices faculty blocks and a large number of residential houses are also under construction. It is expected that the administration will shift to its new block on the campus before the end of the academic year 1989-90. Most of the residential quarters are also expected to be ready by the

close of the Seventh Plan. The blocks for the Pure Sciences and Applied Sciences faculties are expected to be ready by the beginning of 1990-81. Work on construction of a play-ground alongwith a 400 metres running track is also going on at top speed.

IV. Financial Position

- a) The estimated expenditure for the year under review i.e. 1988-89 worked out on the plan side to Rs.574.41 lakhs and on the non-plan side Rs.43.30 lakhs. These amounts are to be met almost entirely from the grants provided by the Government of Goa, with the exception of small amount to be raised by way of fees and other miscellaneous incomes. The actual expenditure incurred during the year amounted to Rs.524.04 lakhs on the plan side and Rs.56.07 lakhs on the non-plan side .
- b) A grant of Rs.70.70 lakhs has been provided by the Ministry of Science & Technology, Department of Biotechnology, Government of India, for setting up a post-graduate course of study leading to the degree of M.Sc. in Biotechnology .
- c) The Khadi & Village Commission, Bombay, has provided a small grant of Rs.5.00 lakhs for a research project to the Department of Microbiology.
- d) The University Grants Commission sanctioned assistance for construction works of the Women's Hostel and Teachers Transit accommodation and for this purpose a sum of Rs.32.50 lakhs has been earmarked in the U.G.C.'s Seventh Plan.
- e) The Department of Physics has received from the U.G.C. for research in Superconductivity an amount of Rs.20.00 lakhs as equipment grant and Rs.0.25 lakhs towards contingency and travel grants.

V) Foreign Visits

- i) Dr. B. Sheik Ali, Vice-Chancellor of the University visited :
 - 1) Moscow, U.S.S.R. from 10th to 21st September, 1988 as a member of the Indian Delegation to participation

in the workshop on "National Thought and Movement" and as a delegation of the University Grants Commission, New Delhi .

2) Lisbon, Portugal at the invitation of the Portuguese Government and Fundacao Oriente, to discuss problems of mutual interest with the University in Lisbon and also visited London to discuss with the Secretary-General Association of Commonwealth Universities, issues concerning the development of this University from 31st May, to 12th June, 1989.

ii) The following faculty members of the University visited different countries to participate in Conferences, on fellowships, etc.

- 1) Dr. Abdul Nafey, Reader, Latin American Studies visited Guyana between 5-7 May, 1988 and Salzburg, Austria, between May 21 - June 3, 1989.
- 2) Dr. Joe D'Souza attended the ATCC Symposium at Maryland University, U.S.A. from October 88 to November, 1988.
- 3) Dr. C. Mande visited the Massachusetts Institute of Technology and the Harvard University in May-June, 1989.
- 4) Dr. (Miss) Maria Selma de Vierra Velho visited Macau and China in June, 1988.
- 5) Ms. Belinda Fernandes attended the training course in Translation in Vicy (France) and visited the ISIT Institute of Translation in Paris.
- 6) Dr. F.A. Fernandes visited Canada from 24.10.88 to 29-10-88.
- 7) Dr. O.J.F. Gomes visited Toronto, Canada to participate in the first International Goan Convention held from 6th to 22nd August, 1988.

VI. Visitors from foreign countries

The following foreigners visited the University during the year under review

1. Dr. Sipizki L.K. University, Hungary.
2. Dr. Walter Liennow, Nurenberg, West Germany.
3. Prof. A.E. Greene, Director de Recherche, CNRS, Grenoble, France.

4. Prof. R. Karsing, Kassel University, West Germany.
5. Prof. R. Bullough, Institute of Science & Technology, University of Manchester.
6. Ms. Violette Graff, Senior Research Associate, Foundation National des Sciences Politiques, Paris. France.
7. Dr. Alan Cairns, Department of Political Science, University of British Columbia, Canada.
8. Dr. Michael Bowers from the University of Nevada.
9. Dr. Jose Pereira da Costa, Director General of Portuguese National Archives.
10. Dr. Antonio Dias Farinha, Director of Institute de Estudos Arabes & Islamicos.
11. Dr. Liberto Cruz, Director of Fundacao Oriente.
12. Dr. Fernand Bentolila, Professor of Linguistics, Rene Descartes University Paris.
13. Dr. Hoffman, Professor of French Literature, Wisconsin University (U.S.A.).
14. Dr. Madison Morrison, Fulbright Professor in English, University of Oklahoma, U.S.A.

VI. Authorities of the University.

Separate list of the members of the Executive Council, the Academic Council, the Court and the Planning Board are given in Annexure II, III, IV & V. A list of the various officers of the University is given as Annexure VI. The details regarding the meetings of the Executive Council and the Academic Council and the important decisions taken by these authorities during the year under reference are as follows :

The Executive Council held twelve meetings during the year under report. Some of the important decisions taken by the Executive Council in these meetings are given below :-

1. Approval of the design for the University Rolling Shields to be presented to winners of Inter-Collegiate Tournaments in various games and sports organised by Goa University.
2. Appointment of Director and Reader for the Academic Staff College .
3. Recognition to persons as teachers of the University.
4. Nomination by the Executive Council on the various University Authorities and Committees.

5. Recognition of National Institute of Oceanography, Dona Paula for post-graduate Research by Universities other than Goa University.
6. Appointment of the Nominees of the Executive Council on the Advisory Committee for the Government College of Arts, Science & Commerce at Sanquelim, Bicholim, Goa.
7. Appointment of the Nominee of the Executive Council on the Board of Extra-Mural Studies and Extension Services.
8. Creation of teaching posts sanctioned by University Grants Commission for implementation of M.Phil. programme.
9. Acceptance of the Endowment viz. "Roque Correia Afonso Memorial Prize".
10. Constitution of the 2nd Buildings Committee.
11. Approved a proposal to purchase a Fully Computerised X-Ray Diffraction (XRD) System to be imported from Japan.
12. Approved a proposal to set up a techno-professional institute as a constituent college of the Goa University.
13. Appointment of Internal Auditors.
14. Appointment of Dr. Udaykumar M.X. Sangodkar as a Reader in Biotechnology in this University on a contract basis.
15. Regularisation of teaching positions appointed from General category against posts advertised as reserved for SC/ST candidates.
16. Nomination of the Executive Council members on the Advisory Committee for the Goa College of Architecture, Panaji-Goa.
17. Approval for the academic cooperation between the Universidade Católica Portuguesa and Goa University.
18. Approval of the statute regarding formation of the Students Council.
19. Approval of the Rules regarding T.A./D.A.

20. Nomination of the Director of the National Institute of Oceanography on the Executive Council.
21. Approved the outline of the Eighth Five Year Plan 1990-95 and Annual Plan 1990-91.
22. Appointment of Dr. S.M. Baji as Professor of Commerce in this University by invitation.
23. Permission to start M.Pharm. three-semester course partly by papers and partly by research in the Goa College of Pharmacy, Panaji.
24. Approved the recommendations of the Selection Committee for the posts of Director/Reader and Lecturer in/of Academic Staff College and Research Officer for Centre for Women's Studies.
25. Approved the institution of a Medal for B.D.S. Final Examination.
25. Approved the rules for allotment of Guest House Accommodation.

The Academic Council held five meetings during the year under report. The important decisions taken by the Academic Council in the meetings are given below :-

1. Election of four members of the Academic Council to represent the University on the Goa Board of Secondary and Higher Secondary Education.
2. Creation of additional three post-graduate seats in M.D. at the Goa Medical College, Panaji.
3. Recognition of post-graduate teachers in the subject of E.N.T. at Goa Medical College.
4. Recommended creation of various teaching posts sanctioned by the U.G.C.
5. Decision to include works by Pandit Jawaharlal Nehru in the degree curricula.
6. Consideration for restructuring of post-graduate and under-graduate courses of study in Arts, Science and Commerce.
7. Decision on the Eligibility Criteria for admission to Diploma in Administrative Management (DAM) course
8. Approval of the recommendation of the committee appointed by the University Grants Commission regarding implementation of the Plan of action of the

National Policy on Education relating to the students outstanding in sports.

9. Approval of the Draft Ordinance on restructuring of post-graduate courses of study in Arts, Science and Commerce subjects submitted by Deo Committee.
10. Ratification of late admission to students for first M .B.B.S. course of Goa Medical College (1988-89) to a casual batch.
11. Permission to register for Ph.D. degree at the Goa University in the field of Urban Environment Planning studies under guidance of Dr. S.P. Deshpande, Consultant, Planning & Design.
12. Recognition to National Institute of Oceanography, Dona Paula as an Institute of Research for Ph.D. 3 programme.
13. Criteria for award of Free students-ships and Merit Scholarships.
14. Relaxation of norms for admission to the Diploma in Administrative Management (1988-89).
15. Reduction of tuition fees for DAM course from Rs.2000.00 to Rs.1500.00
16. Consideration of proposal of improvement of class at the Third Year B.A., B.Sc. & B.Com. Examination held by University.
17. Discussion on lack of infrastructure for M.M.S. course started by Goa University in August, 1988.

VII. Legislative addendum, amendments, etc.

- (a) During the year under report three more statutes numbering from S.104, S.105 and S.106 were added to the existing ones. They are as under.

S.104 - Relating to Departmental Council of each department.

S.105 - Relating to Grievances Committee.

S.106 - Relating to the formation of Students' Council of the Goa University.

These statutes were approved by the Executive Council during the year under report.

(b) During the year under report three more Ordinances

O.20, O.21 and O.23 were added to the existing . They are as under :

- O.20 - Ordinance prescribing University examination fees.
- O.21 - Ordinance relating to the M.A. , M.Com. , M.Sc. degree examinations. .
- O.23 - Consideration of ordinances containing guidelines for preparation of panels for appointment of examiners.

(c) Amendments were carried out to the Goa University Statutes as under :-

- 1) Statute No.16(2) regarding special mode of appointment.
- 2) Statute No.37(1) regarding constitution of Executive Council.
- 3) Statute No.38(1),18(6) regarding constitution of Academic Council and representation of teachers of affiliated college.
- 4) Statute No.49-1(5)-regarding affiliation and recognition of colleges/institutions.
- 5) Statute No.36(1), 36(10) regarding constitution of Court.
- 6) Statute 15(2) 'iii) regarding Selection Committees.
- 7) Statute No.3(1) regarding Deans of Faculties.

Rules framed by the Goa University.

During the year the following rules were framed.

- R.04 Rules for classification, appointment and recruitment of the non-teaching employees of Goa University.
- R.05 Rules for preparing Periodical Assessment Reports of Non-Teaching employees of Goa University.

CHAPTER - II

UNIVERSITY TEACHING DEPARTMENT
FOR POST - GRADUATE COURSES.

The University has the following Post-Graduate Teaching Departments:

1. 1- Faculty of Arts, Humanities & Social Sciences.

- 1.1 - Department of English
- 1.2 - Department of Hindi
- 1.3 - Department of Marathi
- 1.4 - Department of French
- 1.5 - Department of Portuguese
- 1.6 - Department of Economics
- 1.7 - Department of History
- 1.8 - Department of Political Science
- 1.9 - Department of Sociology
- 1.10 - Department of Konkani
- 1.11 - Department of Philosophy.

2. Faculty of Pure Sciences

- 2.1 - Department of Mathematics
- 2.2 - Department of Physics
- 2.3 - Department of Chemistry
- 2.4 - Department of Microbiology
- 2.5 - Department of Geology

3. Faculty of Applied Sciences

- 3.1 - Department of Marine Science
- 3.2 - Department of Computer Science & Technology

4. Faculty of Commerce & Business Administration

- 4.1 - Department of Commerce
- 4.2 - Department of Management Studies

5. University Centres

- 5.1 - Centre for Latin American Studies
- 5.2 - Centre for Women's Studies.

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1.1 Department of English

i) Teaching Staff

- | | |
|--|--------------------|
| 1. Dr. B.V. Nemade
M.A. (English),
M.A. (Linguistics), Ph.D. | Professor and Head |
| 2. Dr. S.S. Kulkarni
M.A., Ph.D. | Reader |
| 3. Dr. A.K. Joshi
M.A., Ph.D. | Reader |
| 4. Dr. F.A. Fernandes
M.A., Ph.D. | Lecturer |
| 5. Smt. Anita Vashista
M.A., M.Phil | Lecturer |
| 6. Shri K.S. Bhat
M.A. | Lecturer |

ii) Visiting Teachers

i) Dr. Ashok Kelkar, Professor of Applied Linguistics Director, Centre of Advanced Study in Linguistics, Deccan College Post Graduate and Research Institute, Pune, taught Linguistics and Structure of English in the Department from 20th February, to 17th February, 1989.

ii) Dr. Sudhakar S. Marathe, Reader, Department of English, University of Hyderabad taught British and American Literature in the Dept. from 20th February to 24th February, 1989.

iii) Visitors

Dr. Madison Morrison, Fulbright Professor of English, the University of Oklahoma, U.S.A. visited the department on 28th and 29th June, 1989. He gave two talks on Creative Writing.

iv) Visits Abroad :

Dr. F.A. Fernandes :

Visited Canada under the Faculty Enrichment Program of the Shastri Indo-Canadian Institute, New Delhi from 24th September to 29th October, 1988. He was attached to the Department of English in the University of Toronto for the study of contemporary Canadian Fiction under the guidance of Professor W.J. Keith, the Courses Leader of Canadian fiction.

v) Participation in seminars, conferences, workshops etc

Name of the Participant

Seminars, Conferences, workshops etc.

1. Dr. S.S. Kulkarni

Conducted a seven-day workshop on "The Nature Significance of Sri Aurobindo's narrative poetry with particular reference to "Savitri" at Sri Aurobindo Society, Bijapur for seven days from 2nd June 1989 to 8th June 1989.

2. Dr. A.K. Joshi

i) Presented a paper "Marxist Literacy Criticism in Marathi" in a seminar on Contemporary Literature Society organised by the University of Bombay from 30th November to 2nd December 1988 at Bombay.

- ii) Presented a paper "Language and Democracy" in a seminar on Democracy: Constraints and Restraints organised by Goa University and the ICSSR from 8th to 10th December, 1988 at Bambolim.
 - iii) Presented a paper "Commitment in Literature" at a seminar on Literature and Society organised by Gomantak Sahitya Sevak Sangh on 18th Dec. 1988 at Mapusa Goa.
 - iv) Presided over a seminar "Marathi-Short Story" organised by Gomantak Marathi Academy on 12th March 1989 at Panaji.
 - v) Presided over two sessions of a Seminar on the Historical Fiction organised by the Sahitya Academy on 11.4-1989 at Panaji.
3. Smt. Anita Vashishtha i) Participated in National Workshop on Development of women studies in India, organised jointly by the U.G.C. and the Centre for Women Development Studies, Sri Padmavati Mahila Visva Vidyalaya, from 4 to 6 1988 at Tirupati.

- ii) Presented a paper "The Consciousness A theme in the shorter poems of T.S. Eliot in a seminar on T.S. Eliot: A Centenary Retrospect organised jointly by Osmania University and American Studies Research Centre, from December 8 to 10, 1988 at Hyderabad.

v. Publications

1. Professor Bhalchandra Nemade

Articles in English

- i) "Some stereotypes in the Comparative Study of English and Indian Literatures", in Prospects of Comparative Studies in Indian Departments of English, Sambalpur: Sambalpur University 1988, pp 51 - 64.
- ii) "A Theoretical Framework of Influence study in Indo-Anglian Context", in Comparative Literature Theory and Practice. Bombay : Allied Publishers 1988.

2. Dr. A.K. Joshi :

a) Book in Marathi

Caudwallchan Kalavichar. Bombay: Shalaka Prakashan, 1989.

b) Articles in Marathi

- i) "The tradition of Marathi story ani GA. Kulkarni" Ugwai Diwali, 1988, pp 20 - 24.
- ii) "G.B. Sardar; Nimal Drushtiche Vicharvant' Ugwai, January 1989, pp. 7 - 12.

3. Smt. Anita Vashishtha:

- i) "Intellectual Traumas" a review of Gieve Patel's play MISTER BEHRAM, Goa Today, December, 1988.
- ii) "Departures from Greenland", a review of Maria Couto's book Graham Greens: On the Frontier : Politics and Religions in the Novels, Goa Today. March, 1989.

4. Shri K.S. Bhat

"Colonial Consciousness in Commonwealth Literature : An Alternative Framework" Dyotana, Vol. II, May 1988.

vi.

(A) Contribution of the Department to the University Activities

Two students of the Department, Ms. Paulina John and Shri Augusto Pinto, both of M.A. Part II, won the Late Professor M.K. Deshpande Trophy at the All India Paper Reading Contest organised by the University of Pune on 16th and 17th February, 1989 at Pune.

(B) Contribution of the Individual members to the University's co-curricular activities:

1. Dr. S.S. Kulkarni

Trained a student Ms. Paulina John of M.A. English for participation in All India Reading Contest for Post Graduate students organised by the Poona University in February 1989.

2. Dr. A.K. Joshi

Worked on the following Committees of the University :

1. Syllabus reform Committee 2. Scholarship Committee 3. Accommodation Committee 4. Election Committee.

3. Dr. F.J. Fernandes

Worked as Director of Students' Welfare and Cultural Affairs during the year 1988-89.

vii) other details

1. Prof. B.V. Nemade

i) Member of Jury, Y.B. Chavan Award - 1987.

ii) Member of Jury, Sahitya Akademi Award - 1988.

iii) A lecture on "Why bother about English Literature at all" at St. Xavier's College, Mapusa, August 13, 1988.

iv) Chief Guest, Satpute Memorial Konkani and Marathi Poetry competition at Shri Damodar College of Commerce and Economics, Margao, September 24 1988.

- v) A lecture on 'Literary Culture' and
Publication of Shabada, at Fergusson College,
Pune, March 25, 1989.

2. Dr. A.K. Joshi

- i) Gave three lectures in Laljee Pendse Memorial Lectures Series on 12th, 13th and 14th September, 1988 in Bombay on :
1. The Nature of Marxist Literary Criticism.
 2. Different Trends in Marxist Literary Criticism.
 3. Literary Criticism and Marxist Literary Criticism in Marathi.
- ii) Taught at the Orientation Courses organised by Academic Staff College, Goa University.
- iii) Gave a talk on Prakashwata by Dattaprasad Dabholkar at P.E.S. College, Ponda on 24th September, 1988.

3. Dr. F.A. Fernandes

- Published three articles in Gomantak Times :
1. "Regional and Local Colour in the Goan Novel" 10th July, 1988.
 2. "Conversation with Manoharai Sardesai" 7th August, 1988.
 3. "The Lyrical Voice in Konkani" (Special X'Mas Issue) 25th December, 1988. pp. 83-85.

4. Shri K.S. Bhat

Spoke on "Trends in Modern European and American Literary Theory" on 28th May, 1988 at SAHITYA VEDEKE KATEEL, Mangalore.

viii) Research Students :

<u>Name of the Research Guide</u>	<u>Research Degree</u>	<u>No. of students</u>	<u>University</u>
1. Dr. B.V. Nemade	Ph.D.	5	Goa University
2. Dr. S.S. Kulkarni	Ph.D.	-	1
3. Dr. A.K. Joshi	Ph.D.	-	1

1.2 Department of Hindi

i) Teaching Staff

1. Dr. A.K. Pandey
M.A., Ph.D., D.Litt. Professor & Head of the Department.
2. Dr. B.D. Mishra
M.A., Ph.D. Sr. Lecturer
3. Dr. (Smt.) Ishrat B. Khan
M.A., Ph.D. Lecturer

ii) General

In 1988-89, Poet's meet and students seminars were organised by the Department.

iii) Visiting Teachers

- 1) Dr. Sudhakar Mishra, Head, Dept. of Hindi, Elphinstone College, Bombay, 10 lectures on Jayaji and Padma Vat.
- 2) Dr. Ram Darash Mishra, Prof. Delhi University
2 lectures on creative process of literature, visit was organised by U.G.C.

iv) Visitors

- 1) Dr. N. Raman Nair, Prof. & Head, the Dept. of Hindi, Cochin University.
- 2) Prof. C. Gopithan, Dept. of Hindi, Calicut University.
- 3) Prof. Rajeshwaria, Retd. Prof. of Hindi, Mysore University.

v) Participation in Seminars, Workshops, Conferences, etc

<u>Name of the participant</u>	<u>Seminar, Workshop, Conference, etc.</u>
1. Dr. A.K. Pandey	Participated and read papers in Seminars organised by the following Universities and institutions <ol style="list-style-type: none">a) Osmania University, Hyderabad on Mahadant verma.b) Calicut University on Jaishnakar Prasad.c) State Bank of India, Hindi workshop.d) Custom Dept. Workshop on functional funds.e) United Commercial Bank, workshop on Hindi.f) Karnatak Bank workshop on Hindi.
2. Dr. B.D. Mishra	<ol style="list-style-type: none">1) State Bank of India, workshop on Hindi2) Seminar organised on 'Novelet' Devesh Thakar, paper was presented

vi) Publications

- 1) A critical survey of novel 'Manzil-se-Aage' published in Aughad Yatra, Bombay 89 Author : Dr. A.K. Pandey.
- 2) A critical survey of the famous book 'Raag Durga' published in 'Aughad Yatra' Bombay - Author Dr. B.D. Mishra.
- 3) 'Laghu Katha' A Social Perspective, Published in Sameechem Bombay, June 89 Author : Dr. B.D. Mishra.

vii) Research students :

One student named Mr. Ravindranath Mishra, has been awarded Ph.D. degree in August 1989 while Mr. Shrigaonkar is in the process of submission. The other details are following :

<u>Guide</u>	<u>Students</u>
1) Dr. A.K. Pandey	4 Ph.D. students
2) Dr. B.D. Mishra	1 Ph.D. student 1 M.Phil. student
3) Dr. A.K. Tripathi	1 M.Phil student 3 Ph.D. students
4) Dr. C.S. Tiwari	2 Ph.D. students 1 M.Phil. student

Department of Marathi

i) Teaching staff

1. Dr. P.B. Wader
M.A., Ph.D. Professor & Head of the Department
2. Shri S.D. Komarpant
M.A., M.C. Lecturer
3. Shri V.D. Sawant
M.A., M.Phil Lecturer

ii) Visitors

1. Dr. R.B. Mancharkar, Prof. & Head of the Department of Marathi, Boravake College, Shrirampur visited the Department on 1st August, 1988 to see the University Library and meet the staff of the Department.
2. Prof. K.J. Purohit, Ex-Principal & Prof. of English, eminent Marathi short story writer & critic visited the Department on 20th December, 1988.

iii) Participation in Seminars, Conference, Workshops etc.

<u>Name of the Participant</u>	<u>Seminar, Conference, Workshop, etc.</u>
--------------------------------	--

- | | |
|-------------------|---|
| 1. Dr. P.B. Wader | i) Gave a talk on "saint Ramdas" at Bhagwati High School, Pednem-Goa. |
| | ii) Attended and participated in the Seminar held by the University of Bombay of all the Heads of the Department of Marathi in India. |
| | iii) Gave a talk on the literature published in the Diwali Special issues in Goa on All India Radio, Panaji. |
| | iv) Attended and participated in the seminar organised by the 4th Deccan Maharashtra Literary Conference held at Kolhapur. |

v) Participated as a resource person in the workshop on "Post-1960 Marathi Short Story" held by Gomantak Akademi, Panaji.

vi) Attended and read a paper on Floklore in the seminar held by the Department of Marathi Poona University.

2. Shri S.D. Komarpant

i) Gave a talk on Poetry-Origin & Appreciation held by M.E.S College, Vasco.

ii) Participated in the seminar on the "Poetry by Kusumagraj" held by Gomantak Sahitya Sevak Mandal, Panaji.

iii) Gave a talk on the Poetry of Kusumagraj on the All India Radio, Panaji.

iv) Gave a talk on "Social Reforms" held by Seva Sadan, Panaji.

v) Participated as Resource person in the workshop on post 1960 Marathi Poetry held by the Gomantak Marathi Akademi, Panaji.

3. Shri V.D. Sawant

i) Attended and actively participated in the seminar on "The Post 1960 short story in Marathi" held by Gomantak Marathi Akademi Panaji.

- ii) Attended and actively participated in the Seminar on "The Post 1960 poetry in Marathi" held by Gomantak Marathi Akademi, Panaji.
- iii) Spoke on "Uchalya" by Laxima Gaikwad, winner of Sahitya Akademi Award, 1988 on the AIR, Panaji.

vii) Publication of Articles

Gomantak 6.5.1988	The Poetry of Late N.V. Tilak
Gomantak 10.6.1988	Nature in the Poetry of Vasant Sawant
Gomantak 24.6.1988	Book Review of the Selected writing of Late N.S. Phadke.
Dudhasagar May-June 1988.	Jayawant Dalvi as a Dramatist
Dudhasagar Diwali 1988	The Literary Personality of Kusumagraj
Gomantakchi Asmita Diwali 1988	The nationalist poetry of Vinayak
Maharathi Diwali 1988	'Anil' as a Social Thinker.

vii) Research Students - Nil

ix) Research Projects - Nil

1.4 Department of French

i) Teaching Staff

1. Dr. M.L. Sardessai
M.A. (French)
Ph.D. (French) Co-ordinator and Head of the Department.
2. Ms. Belinda Fernandes
M.A. (French) Lecturer

ii) General

a) Dr. M.L. Sardesai

1. Actively participated in the 4th World Congress of Departments of French studies (14th - 20th December 1988) New Delhi. Read a paper on "Interference of Languages like Portuguese, Konkani, Marathi and English in the teaching French in Goa". The trip was sponsored by Goa University.
2. Contributed articles on French language, literature and French writers for the Marathi Encyclopaedia (Marathi Vishvakosh).
3. Took active part in 17th All India Konkani Parishad (6-8 January 1989) held in Manipal (Karnataka).
4. Delivered lectures on French Literature and French writers to the public on behalf of Alliance Francaise of Goa (Margao).
5. Member of the Editorial Board of "Kalanand" organ of Kala Academy, Goa.
6. Member of the Editorial Board of Institute Menezes Braganza Bulletin.

b) Ms. Belinda Fernandes

1. Prepared the 9th Std. French Text Book "Pas a Pas" in collaboration with Goa Board of Second Education and Alliance Francaise of Goa.
2. Convenor of the Editorial Board in French.

iii) Visiting Teachers :

Dr. Jean Marc Gruera, Director of the Alliance Francaise in Goa, lectured on 20th Century French Literature (Jean Paul Sartre) - Paper - I and conducted classes in French Conversation.

iv) Visitors :

1. Dr. Fernand Bentolila, Professor of Linguistics in the Rene Descartes University, Paris visited our Library and conversed with our students.
2. Dr. Hoffmann, Professor of French Literature, Wiscosim University (U.S.A.) also visited our department and conversed with our students.
3. Dr. Jean Marc Gruere, Director of Alliance Francaise in Goa.

v) Visits abroad

Belinda Fernandes attended the Training Course in Translation which was held in Vichy (France) visited the ISIT Institute of Translation in Paris and the study of the methods used to translation in Strasbourg and Ronnes.

vi) Participation in Seminars, Conferences, Workshops etc.

<u>Name of the Participant</u>	<u>Seminars, Conferences, Workshops etc.</u>
1. Dr. M.L. Sardesai	i) Resource person for the seminar on Linguistics organised by the Alliance Francaise in Goa in January 1989.
	ii) Organised and participated seminar on preparation of Books for children in Konkani on behalf of Goa Konkani Academy.
	iii) Participated in workshop on short story writing in Konkani organised by Goa Konkani Academy.

- iv) Presided over a workshop for Poetry writing in Konkani organised by Goa Konkani Academy.
- v) Participated and presided over in a Poet's meet organised by Goa University
- vi) Delivered a talk on Konkani literature, culture and folklore on behalf of Philosophic Society.

2. Ms. Belinda Fernandes
- i) Attended the seminar on Linguistics organised by the Alliance Francaise in Goa in January 1989.
 - ii) Attended the Training course in Translation in Vichy (France).

vii) Agreements

Agreement between the Rene Descartes University (Paris Sorbonne V) and the Department of French, Goa University, for the exchange of documents and research material as far as Konkani and French are concerned.

1.5. Department of Portuguese

i) Teaching Staff

1. Dr. (Miss) Maria Selma de Vieira Velho Lecturer
M.A., Ph.D.

ii) Contributory Teachers.

Dr. Ivo Mascarenhas, Vice-Principal, St. Xavier's College, Mapusa, delivered a series of lectures on the Medieval and Morality Plays in Portugal (Paper I).

iii) Visiting Professors

- 1) His Excellency, Dr. Alvaro Guerra, Ambassador of Portugal in India and Portuguese Novelist, delivered a series of lectures on his own TRILOGIA DO CAFE (Paper III)
- 2) Dr. Luis de Mavra Rodrigues, Associate Professor of Portuguese at Jawaharlal Nehru University delivered a series of lectures on (a) LUSIADAS and the Cultural Evolution of the Epic and (b) the works of Agustina Berra Luis with particular emphasis on AL ADEVINHAS DE PEDRO E INES, (Paper V and Paper III respectively).
- 3) Dr. Carmo de Azavedo, Indo-Portuguese Historian, delivered a series of lectures on the historical, social, cultural and political background of Goa at the end of XIXth and the beginning of XXth century (Paper III).
- 4) Dr. Carmo de Silva, Indo-Portuguese Writer delivered a series of lectures on the Origin of Portuguese Theatre (Paper I).
- 5) Mme Prof. Dr. Genevieve Bouchou, a world renowned French Historian delivered a lecture on the ever-increasing importance of Portuguese as a major world language, quoting various statistics from UNESCO, and called the attention to the historical and cultural wealth of Portuguese documents in India.

vi) Visitors.

- 1) Dr. Jose Pereira de Costa, Director-general of Portuguese National Archives visited Department

and addressed the students on the practical use of the latest technology for research and preservation methods for documents at ARQUIVO NACIONAL DA TORRE DO TOMBO at Lisbon, using nearly hundred slides in his practical explanation.

- 2) Dr. Antonio Dias Farinha, Director of INSTITUTO DE ESTUDOS E ISLAMICOS spoke on the Arabic Influence on Portuguese Language.
- 3) Dr. Luis Filipe Reis Thomas
Dr. Artur Teodoro de Matos
Dr. Jose Pavlo de Oliveira e Costa
Dr. Victor Gaspar da Conceicao Rodrigues
Dr. Jorge da Silva Flores.

Professors of History at various Portuguese Universities and Colleges addressed the students on the complexity of the historical causes and effects of the April 1974 Revolution and its influence on Portuguese Literature.

- 4) Dr. Jose Leal-Ferreira Junior, Professor of Brazilian Studies at the School of International Studies at Jawaharlal Nehru University, New Delhi, addressed the students on the LUSO-Tropical World.
- 5) Dr. Liberto Cruz, Director of FUNDACAO ORIENTE visited the Department.
- 6) Dr. Francisco Williams de Araujo, Vice-Consul of Brasil in Delhi visited the Department.

v) Visits Abroad :

Dr. Velho visited Macau and China at the invitation of INSTITUTO CULTURAL DE MACAU IN June 88, in order to be present for the official release of thesis A INFLUENCIA

DA MITOLOGIA HINDU NA LITERATURA PORTUGUESA NOS SECULOS XVI & XVII. This cultural organisation is about to release the Chinese and English versions of the thesis.

vi) Participation in Seminars, Conferences, Workshops etc.

<u>Name of the Participants</u>	<u>Seminars, Conferences, Workshops etc.</u>
i) Dr. Maria Selma de Vieira Velho.	<ol style="list-style-type: none">1. Under the sponsorship of INSTITUTO CULTURAL DE MACAU, DR VELHO gave a conference at LIVRARIA PORTUGUESA on "HERANCA, PERMANENCIA E O FUTURO DAS RELACOES LUSOFONAS NOS QUATRO CONTINENTIES".2. Dr. Velho attended a workshop on Fernando Pessoa organised by BIBLIOTECA NACIONAL DE MACAU (LEAL SENADO).3. Dr. Velho gave a radio talk at Macau's national radio on the "Present situation of Indo-Portuguese Art and Culture".4. Dr. Velho gave a talk on the "Present situation of Portuguese Jesuits of Macau.5. Dr. Velho gave a radio talk at AIR Panjim on A VISIT TO MACAU

vii) Contribution to Co-Curricular Activities:

- i) Dr. Velho prepared the text book for S.Y. BA. - ANTOLOGIA DO SECULO XIX - Prosa.
- ii) Dr. Velho prepared jointly with Dr. Moura-Rodrigues ANTOLOGIA DO SECULO XIX - Poesia, a text book for S.Y. B.A.
- iii) Dr. Velho prepared jointly with Dr. Moura-Rodrigues ANTOLOGIA DO CONTO PORTUGUES A Text-book for T.Y.B.A.
- iv) Dr. Velho jointly with Dr. Moura-Rodrigues prepared - ANTOLOGIA DOS CRONISTAS - MORES DO REINO E DA LITERATURA DA CASA DE AVIS ($\frac{3}{4}$ PANORAMA GERAL), text-book for M.A. Paper VIII.
- v) Dr. Velho was nominated by the Executive Council of Jawaharlal Nehru University member of the Selection Committee for scrutinizing the candidates for the post of Assistant Professor of Portuguese

viii) Publications:

Dr. Velho's A INFLUENCIA DA MITOLOGIA HINDU NA LITERATURA PORTUGUESE NOS SECULOS XVI & XVII was published at Macau, June 88 (2 volumes).

1.6 Department of Economics

i) Teaching Staff

1. Dr. M.A. Shahi Professor and Head of the
B.A.(Hons); Department.
M.A.(Mysore), M.A.(Chicago)
Ph.D.(Kent), F.S.S.(London)
2. Dr. A.R. Padoshi Reader
M.A., Ph.D.
3. Mrs. S.M. Noronha Lecturer
M.A., D.H.E.
4. E.D'Souza Lecturer

ii) Contributory Teachers.

Principal V.R. Shirgurkar
S.P. Chowgule College,
Margao-Goa.

iii) Publications:

1. Dr. M.A. Shahi

a) Published :

- I. "The Demand for Money in African Countries-Some Empirical Evidence, 1960-1985 Asian Economic - Review, Vol.30, No.1 April 1988.

Ready for Publication:

I) Sector shares and Economic Development -
'A Re-examination of the Kuznet's Hypothesis'.

II) Labours share, Labour productivity and Economic Development.

III) Debt, Democracy and Dictators, the Latin American Experience.

2. Dr. A.R. Padoshi

1. Guiding Research: Produced one Ph.D. student in August 1988.

2. Evaluation (i) Evaluated one Ph.D. Thesis

(ii), Evaluated three M.Phil Thesis

3. Miscellaneous : (i) Worked as one of the Judges for the award of Marathwad University prize for the book "Monetarism or Keynesianism".

3. S.M. Noronha

Published:

i) 'Workers' Ownership and Management of Industry.

The Indian Journal of Labour Economics, Vol No.: 1-2
April-July 1988.

Ready for publication

(1) The Economic Scene in Goa - 1926-61' to be
published in the Volume 'Goa through the Ages'.

v. Visitors to the Department

(1) Dr. P.R. Brahnanda.

vii Participation in Seminars, Conferences & Workshops.

Name of the Participant Seminar, Conference etc.

- | | |
|-------------------|--|
| 1. Dr. M.A. Shahi | 1) Participated in the 71st Annual Conference of the Indian Economic Association held in Jadhavpur University, Calcutta. |
| | 2) Participated in the 'American Constitution' seminar organised by the Department of Political Science of Goa University in 1988. |
| | 3. The Second Annual Conference of the Karnataka Economic, Association. |
| | 4. Meeting of the Goa State Planning Board. |
| 2. A.R. Padoshi | 1) The 12th Annual Conference of Marathi Arthashastra Parishad at Shahada (Maharashtra) 25-27 Nov. 1988. |

Sub. National Systems Unit,
National Institute of Educational
Planning and Administration
17-B, Sector 16, Connaught Marg, New Delhi-110016
DOC. No. 0-53-45.....
Date.....9-7-90.....

- 35 -

- 2) Seminar on Local History of Goa and submitted a paper namely, 'Agricultural Relations under Colonial Regime in Goa.
- 3) Annual Conference of the India Society of Agricultural Economics, Varanasi in Dec.1988

3. S.M. Noronha

- 1) Participated in the 30th Annual Conference of the Indian Society of Labour Economics held at A.N. Sinha Institute Patn , on 22 Dec 1988, under the Presidentship of Dr. P.C. Joshi and presented a paper on "Women Workers and their problems.
- 2) Attended a workshop on Women Studies at Tirupati, Andhra Pradesh in Aug.1988.
- 3) Attended a Workshop for Women Voluntary Organisation and Women Activists at Goa University, 31st March, 1989.
- 4) Seminar on Local History of Goa, at Goa University.

4. E.D!Souza

- 1) Chaired a session in the Seminar "Extending Democracy- an Analysis of Political Movement in India, "Dec 8-10 1989. Organised by ICSSR/WRC and Goa University.

- 2) Grassroot Seminar issues of Nation Building Development Process and Communication, "jointly organised by Goa University and Centre for Research in Rural and Industrial Development March 2nd -3rd 1989.
- 3) Decentralisation Process in Latin American" April 17-18 1989 U.G.C. Seminar at Goa University

vii) Research Students :

<u>Name of Research Guide</u>	<u>No. of students for Ph.D. degree</u>	
	<u>Full-time</u>	<u>Part-time</u>
1. Dr. M.A. Shahi	1	1
2. Dr. A.R. Padochi	-	5

viii) Any other details:

Dr. G.V. Kamat Helekar Memorial Lecture delivered by Prof. P.R. Brahmananda on "A Rethinking on the Nehru Mahalobis Strategy for Economic Planning".

1.7 Department of History

i) Teaching and Research Staff

1. Dr. B.S. Shastry
M.A., Ph.D. Reader and Head of the Dept.
2. Dr. K.M. Mathew
M.A., Ph.D. Lecturer
(transferred as Reader to the ASC for one year i.e. upto end of August 1989)
3. Dr. Pratima P. Kamat
M.A., Ph.D. Lecturer
4. Dr. M. Shyam Bhat
M.A., Ph.D. Lecturer

Sectional President at section I
(Socio-Economic History).

Presented Sectional Presidential
Address: "Parameters of Social
History in our Times: The Indian
Context".

- 3) Attended the 5th International
seminar on Indo-Portuguese History
History, Cochin, 29 Jan. to 1 Feb.
1989. Presented a Paper "Commer-
cial Relations between the
Portuguese and the Sonda chiefs,
1693 - 1764" Re-elected Member
Executive Committee.
- 4) Attended the 8th Annual Confer-
ence of the Karnataka
History Congress, Kuvempu
University Shimoga, 3-5 Feb. 1989.
Presided over a session on 4.2.89
Presented a Paper, "The Religious
Factor in Portuguese - Sonda
Relations, 1693 - 1764., Elected
Vice-President
- 5) Attended the 3rd seminar on
local History (Goa) jointly
organised by the Goa University
and the Directorate of Archives,
Archaeology and Museum, Govt. of
Goa, Panaji, at Goa University
colonial Budgets of Portuguese
Goa, 1852 - 1909".

2. Dr. Pratima P. Kamat
- 1) Attended the workshop on the Latin American Studies at Goa University, 8 August, 1988.
 - 2) Attended the workshop on the American constitution, Dept. of Political Science, Goa University, 10 August, 1988.
 - 3) Attended the 49th session of the Indian History Karnataka University, Dharwar, 2-4 Nov. 1988. Presented a paper "The Assimilative and Discriminatory Aspects of Portuguese Colonialism in Goa, 1510-1760: an overview".
 - 4) Attended the State level Conference on Forty years of Independence organised by the Govt, Goa at Kala Academy on 14 November, 1988.
 - 5) Attended the 9th Annual session of the South Indian Congress, University of Poona, Pune, 30th Nov. to 2nd Dec. 1988. Presented a Paper, "Father A.F.X. Alvares and the 'Sedition' of 1895 in Goa".
 - 6) Attended the seminar on Extending Democracy - An Analysis of Political Movements in India", organised by the Goa University and I.C.S.S.R. W.R.C., Bombay at Goa University, 8-10 December, 1988.

- 7) Attended and helped organise the 3rd seminar on local History (Goa), jointly organised by the Dept. of History, Goa University and the Directorate of Archives, Archaeology and Museum, Govt. of Goa, Panaji, at Goa University 27-28 Feb. 1989. Presented a Paper, "The position of the Married Woman in the Family Laws of Goa".
 - 8) Attended the C.R.R.I.D., Chandigarh "Grass roots seminar on Issues of Nation Building Development Process and Communication", Goa University 2-3 March, 1989. Spoke on "Goa - an Adman's Carnival".
 - 9) Attended the workshop for Women's Voluntary Organisations, by the Centre for Women's Studies, Goa University at the Goa University 31 March, 1989.
3. Dr. N. Shyam Bhat
- 1) Attended the 49th Session of the Indian History Congress, Karnataka University, Dharwar, 2-4 Nov. 1988. Presented a Paper, "A Peasant uprising in south Kanara 1830-31".
 - 2) Attended the 8th session of the Karnataka History Congress, Kuvempu University, Shimoga 3-5 Feb. 1989. Presented a Paper, "An Initial Peasant Protest in Early colonial south Kanara, 1810-11".
 - 3) Attended and helped organising the 3rd seminar on local History (Goa University and the Directorate of Archives, Archaeology and Museum, Govt. of Goa, Panaji, at Goa University 27-28 Feb. 1989.

iv) Publications:

1) Dr. B.S. Shastri.

- i) "Commercial Policy of the Portuguese vis-a-vis the Adil Shahis of Bijapur in the 17th Century A.D.", "Proceedings of the Indian History Congress", Goa University session, published in 1988, pp. 632 - 40.

2) Dr. Pratima F. Kamat.

- i) "Mateus de Castio-Rebel", Turabhilekh-Puratatva (journal of the Directorate of Archives, Archaeology and Museum, Govt. of Goa. of Goa, Panaji, vol. V, 22 pp.11-22.
- ii) "Some Protesting Priests of Goa", Essays in Goan History, ed. T.R. de Souza, Concept Publishing Company, New Delhi, 1989. pp. 103 - 19.

v) Contribution to Co-curricular Activities :

- (a) The academics of the Department rendered their services to the Directorate of students welfare and other University organs whenever called upon.

vi) Research students

<u>Name of the Research Guide</u>	<u>No. of students for Ph.D.</u>
1. Dr. B.S. Shastri	5

vii) Research Project:

B.S. Shastri Goa Through the Ages, Goa University publication project in collaboration with Dr. B. Sheik Ali, Dr. P.P. Shirodkar, Dr. T.R. de souza and Dr. Joseph Barros.

viii) Other Academic Activities of the Department:

- 1) The 3rd seminar on Local History (Goa) was organised on 27-28 February, 1989, in collaboration with the Directorate of Archives, Archaeology and Museum, Govt. of Goa, Panaji. The theme of the seminar was the "Socio-Economics Aspects of colonialism in Goa: 1800 - 1961". Nineteen papers were presented and discussed at the seminar. All the participants were from within Goa as none of the invited outstation scholars could come for one reason or another.
- 2) The second D.D. Kosambi Memorial Lecture was organised on 3-3-1989. Prof. Barun De, Founder-Director, Centre for Studies in Social Sciences, Calcutta, delivered the Memorial Lecture on "Character of 18th century colonialism in India".

1.8 Department of Political Science

i) Teaching Staff

- | | |
|---|---------------------------------------|
| 1. Dr. Adi H. Doctor
M.A., Ph.D. | Professor & Head of the
Department |
| 2. Dr. M.J. Audi
M.A., Ph.D. | Reader |
| 3. Dr. Peter R. DeSouza
M.A., M.Phil, D.Phil | Lecturer |
| 4. Mr. Mohan Sangodkar
M.A. | Lecturer |
| 5. Ms. Shantishree Pandi
M.A., M.Phil. | Lecturer |

ii) Visitors to the Department:

1. Ms. Violette Graff, Senior Research Associate, Foundation Nationale Des Sciences Politiques, Paris, France, visited the department and met the faculty members for a discussion on 14th February 1989 at 3.00 p.m.

2. Dr. Alan Cairns from the department of Political Science, University of British Columbia, Canada, visited the department on 2-3, January 1989. On 2nd January Dr. Cairns addressed students and faculty on the subject of "Quebec and Canadian Federalism - A Perennial tension". On the 3rd he met and discussed with the political science faculty the "Development of Political Science in Canada".
3. Dr. Michael Bowers of the University of Nevada (visit sponsored by the American Centre, Bombay) conducted a one day workshop on the American constitution in the Political Science department on 10th August, 1988.

iii) Participation in Seminars, Conferences, Workshops.

<u>Name of Participants</u>	<u>Seminar, Conferences etc.</u>
1. Prof. Adi H. Doctor	inaugurated and participated in the UGC sponsored seminar on Lohia at Mangalore University, 29-30 March 1988; participated in the one day workshop on Latin American Studies organised by Goa University on 8th August, 1988; organised a one day workshop on "The American Constitution" in collaboration with the American Centre, Bombay, at Goa University on 10th August, 1988; participated and presented a paper on "Extending Democracy - A Critique of J.P.'s Theory and Praxis" at the two day seminar on "Extending Democracy" organised by the Goa University in collaboration with the Western Regional Centre of

the ICSSR 8-10 December 1988; participated in the symposium on "Human Rights in the Era of the Masses" organised by the All India Indo-Arab Friendship Association at Panaji, 12th December, 1988.

2. Dr. M.J. Audi Participated in the workshop on The American Constitution at the department of Political Science, Goa University, 10th Aug., 1988; participated and presented a paper on "New India, Noble Profession and Role of Teachers Union" at the regional seminar on "Socio-Economic Stress on Education and Role of Teachers' Organisations" sponsored by the AIFIO-IFFTU-FES, New Delhi, and UCTAG, Goa, Aug-Sept 1988; participated in seminar on "Extending Democracy" sponsored by the WRC-ICSSR and Goa University, 8-10 December 1988; participated and presented a paper on "Goa's Unique of Identity, An Excellent Example of Denationalization" at the seminar on Local History (Goa) sponsored by the Goa University and the Directorate of Archives (Govt. of Goa) February, 1989; gave a lecture on "Indo-Afgan Relations" at the Indian National Congress (I) branch, Panaji on August 1988; gave a lecture (Extension series of G.U.) on "Duties of Citizens" at Saraswati Vidyalaya, Mapusa, October 1988; gave a lecture on "Whither Indian Democracy" at the T.B. Cunha Chairty Trust, Panaji, November 1988; gave a

lecture on "The Right to Property Under the Indian Constitution" at the Kare College of Law, Margao, November 1988.

3. Dr. Peter R. De Souza Organised at WRC-ICSSR seminar on "Extending Democracy", 8-10 December 1988 at Goa University; participated and presented a paper on "For and Against Participatory Democracy" at a seminar on "JP and Social change" organised by the Gandhian Institute of Studies (Varanasi) 28-30 November 1988; participated in the seminar on "Nehru's Life and Thoughts" at Udipi, 24-26 February 1989; participated in the one day workshop on Latin American Studies of Goa University on 8th August 1988; participated in the one day workshop on "The American Constitution" organised by Goa University in collaboration with the American Centre (Bombay) at Goa University on 10th August 1988; participated in the "Grass-root" seminar organised by the Goa University, 1988; participated in the Symposium on "Human Rights in the Era of the Masses" organised by the All India Indo-Arab Friendship Association at Panaji on 12th December 1988.
4. Ms. Shantishree Pandit Participated in the seminar on "Extending Democracy" organised by the WRC-ICSSR and Goa University, 8-10 Dec 1988; participated in the Heiddeggar Centenary celebrations (including seminar) organised by Goa University, Dec. 1988; participated in the seminar on Local History (Goa) organised by

Goa University and Directorate of Archives (Goa Govt.) in Feb, 1989; participated in and presented a paper on "Democratization in Latin America" at the one day workshop on Latin American Studies organised by Goa University on 8th Aug, 1988; attended the workshop in American Government and Foreign Policy" organised by the USEFI-ASRC (Hyderabad), May 1989; participated in the Indo-Nepal Colloquium sponsored by the JNU and Indian International Centre, New Delhi, May 1989.

5. Mr. Mohan Sango- Participated and presented a paper on
dkar
Goa's Legislative Assembly at the seminar on State Politics at Nagpur University, August 1988.

iv) Publications:

- a) Prof. Adi H. Doctor
1. Teaching Political Values in Adult Education, Radical and Humanist (Editor V.M. Tarkunde), New Delhi Vol. 52 No. 16 Sept. 1988.
 2. Lohia's Quest for an Autonomous Socialism", Indian Journal of Political Science, Madras, Vol 49 No. 3, July-Sept 1988.
 3. Study material for post-graduate courses on "Power, Authority and Legitimacy" and Equality and Social Justice published by Directorate of Distance Education, University of Bombay, Bombay.

- b) Dr. M.J. Audi
1. In search of Honesty, Navhind Times, Panaji, 24 April 1988.
 2. In search of Integrity, Navhind Times, Panaji 23 June, 1988.
 3. Eclipse of Intellectual, Navhind Times, 23 July 1988.
 4. University Autonomy, Navhind Times, Panaji 22 Sept 1988.
 5. Real Issues in Defamation, Navhind Times, Panaji, 4 Dec. 1988.
 6. Human Rights in India, Navhind Times, Panaji 10 Dec 1988.
 7. On Republic Day Awards, Navhind Times, Panaji 26 1989.
 8. Goyachi Asli Asmita, Gomantak Panaji. 19 March 1989.
 9. Vidyapitachi Sawaitatta, Gomantak, Panaji 24 April 1989.

vii) Contribution to Co-curricular Activities:

Prof. Adi H. Doctor was course co-ordinator and resource person for the Orientation courses conducted by the Academic Staff College of Goa University; he was also a resource person for the IAS coaching conducted by Goa University. Dr. Adi Doctor also participated in the radio discussion on "Corruption" broadcast by All India Radio on 5th May 1989; and was the University representative on the Goa Board of Secondary and Higher Secondary Education.

Dr. M.J. Audi was resource person for the Academic Staff College of Goa University; gave Extension lectures under the auspices of Board of Extra-Mural Studies of Goa University; participated in the All-India Radio discussion "Communalism" November, 1988.

Dr. Peter R. Desouza was a member of the Board of Studies in Education of the Nirmala Institute of Education, Panaji Goa.

Ms. Shantishree Pandit was a member of the National Advisory Committee of the Department of Youth Affairs and Sports, Government of India, she was also the teacher in charge of various student and cultural activities of Goa University.

viii) Research students

<u>Name of Guide</u>	<u>Number of students registered</u>
Dr. Adi Doctor	Five
Dr. M.J. Audi	Two

Shri B.G. Dias has been awarded the Ph.D. degree of the University of Bombay for his thesis, "The Speaker in Goa" in 1988.

ix) Research Projects:

Dr. M.J. Audi has a grant from Goa University for researching on "The Causes and Consequences of Corruption in India".

.9 Department of Sociology

i) Teaching Staff

1. Shri S.R. Phal M.A.	Reader and Head of the Dept.
2. Dr. W. de Silva M.A., Ph.D.	Reader
3. Shri Alito Siqueira M.A.	Lecturer
4. Dr. S. Hegde M.A., Ph.D.	Lecturer
5. Dr. M. Singh M.A., Ph.D.	Lecturer

ii) Contributory Teachers

1. Mrs. Rhoda Almeida, M.A., M.Ed., Senior Lecturer
Nimala Institute of Education, Altinho, Panaji,
delivered 60 lectures to the M.A. Part I & II students
of the Department on 'Sociology of Education' during
the academic year 1987-88.
2. Dr. (Sr.) Jennifer Fonseca, M.A., Ph.D., Principal,
Nimala Institute of Education, Altinho, Panaji,
delivered 20 lectures to the M.A. Part I & II students
of the Department on "Sociology of Education" in the
second term of the academic year 1987-88.

iii) Visting Teachers

Dr. Jacob Aikera, M.A., Ph.D. Professor of Sociology of
Education, Tata Institute of Social Sciences, Bombay
visited the Department in February, 1989 and delivered
6 lectures on 'Society and Education' to the post graduate
students of the Department.

iv) Participation in Seminars, Conferences, Workshops etc.

<u>Name of the Participant</u>	<u>Seminar, Conferences, Workshops etc.</u>
1. Shri S.R. Phal	1. Participated in the Seminar
2. Dr. W. De Silva	"Extending Democracy - an
3. Shri Alito Sequeira	analysis of Political Movement in India" organised by the Department of Political Science & Sociology of Goa University and the Indian Council of Social Science Research, Western Region Bombay on December 8-10 1988.

- 2) All the faculty members of the Department
2. Participated in the Grass-root Seminar on 'Nation-building, Development Process and Communication' sponsored by the Centre for Research in Rural and Industrial Development, Chandigarh and organised by the Department of Sociology on 2nd & 3rd March, 1989.
- 3) Dr. S. Hegde
- Participated in the symposium on Technology, Ecology and Heideggerian Etho's organised by the Department of Philosophy and Indian Council of Philosophical Research on Dec. 1 & 2, 1988.
- 4) Dr. W. de Silva
1. Participated in the Symposium on "Technology Ecology and Heideggerian Ethos", organised jointly by the Department of Philosophy and Indian Council of Philosophical Research, on Dec. 1 & 2 1988, and presented a paper on "Ecology, Technology and Ontology" option towards Philosophy of Praxis".
2. Organised one-day seminar on 'Understanding Gorbachev's Perestroika' at FRH Mangalore, December 18, 1988.
3. Presented a research paper on 'Between Colonialism and Super-naturalism. Plaidoyer for Return to Gaurpan in the Reconstruction of Goa History at the Regional History Seminar Goa University, February 27, 28 1989.
4. Presented a paper on 'The Configuration' of the Feminine : An Ethnosociological Perspective at the National Seminar on the Configuration of Feminism" Poona University, Pune, March 13-15, 1989.

v) Publications :

1. Shri S.R. Phal
1. Continuity and change in a Peasant Community A study of the Halakki Vakkals of North Kanara (in press).
 2. Society and Economy : A study of a fishing community of North Kanara (in preparation).
2. Dr. W. de Silva
1. Celebrating Life (ed.) (in press)
 2. Substance & Structure & (in preparation)
 3. Standardising Konkani : Phonetics and Graphimics of Konkani (in Konkani), in Bhingari Vol.II-2-1989, Konkani Research Journal.
 4. Konkani Folklore on Gumat, (Konkani collection) (in press).
- Dr. S. Hegde
1. 'On Sociology in/of India - Toward a Discursive Deviation' - under communication with Social Scientist.
 2. 'Patterns of Judicial Decision Making : An Anaylsis of supreme court cases". National Law School Journal (Forthcoming).
 3. 'Notes on Indian Studies' Prologoneono to a work in progress (Mimeographed).

vi) Contribution of the Department to the University Activities

1. On behalf of Goa University, the Department organised the Grassroot Seminar on Nationbuilding ,Development Process and Communication" sponsored by the Centre for Research in Rural and Industrial Development, Chandigarh, on March, 2-3-.1989. Shri S.R. Phal, Head, Department of Sociology was the Chief Coordinator and Dr. W de Silva, Reader in the Department was the joint-Coordinator of the Seminar.

vii) Research students:

<u>Name of the Research Guide</u>	<u>No. of Ph.D. Students</u>	
	<u>Full-time</u>	<u>Part-time</u>
1. Shri S.R. Phal	1	4
2. Dr. W. de Silva	2	1

viii) Any other details

- | | |
|--------------------|--|
| 1. Shri S.R. Phal | <ol style="list-style-type: none">1. was nominated as a member of the steering Committee on Tourism by Government of Goa.2. Delivered a lecture on "The Role of NSS" under extension lecture programmes to the N.S.S. students of St. Xavier's College, Mapusa in April 1988. |
| 2. Dr. W. de Silva | <ol style="list-style-type: none">1. Editor in Chief, Konkani Lexicon (h.c) Mangalore, directing and conducting field work, workshops and seminars in west-coast India (Konkani speaking region)2. Delivered a lecture on 'Communalism and Unredeemed Promises of a Nation' to the students of St. Philomena's College, Puttur, November, 17, 1988.3. Delivered a series of 6 lectures on 'Evil in Society' in Pangala, D.K., January 16-17, 1989.4. Delivered four lectures on 'Field work Techniques and Ethnosociology; at one-day workshop at Kiram centre, Mangalore, January, 18, 1989. |

5. Lecture on 'Understanding Goan Society to M.E.S. college students Zuarinagar, January 23, 1989.
6. 'Society; Law and Change' - A Sociological Perspective'. Lecture to post-graduate students of Law, Mysore University, February 9, 1989.
7. 'The other Folklore and Ethnology: A caesura in Methodology' lecture to students of Department of Kannada, Mysore University, February 10, 1989.
8. 'Existence of God and Function of Religion, lecture to campus students of Mysore University, February 10, 1989.
9. A series of four lectures on 'Religion in Durkheim, Weber and Marx, and social change' to students of Sociology M.E.S. College, Zuarinagar, Goa, February 14-20, 1989.
10. Class, Caste and Konkani Novels of Keni, 'Chief Guest Address, Sahitya Sangadi Meet, Margao, February 25, 1989.
11. A series of 8 lectures on 'Liberal and Liberating Discourse in Societal Sciences and Locating Goan Society', to students of Plus X Pastoral Institute, Old Goa, February 27 - March 8, 1989.
12. A series of 3 lectures on 'Discourse on the Feminine in Kinship and Tributary societies' TTS, M.Ph. students, Madurai, March 16-17, 1989.

3. Dr. S. Hegde
 1. Attended the Orientation course Academic Staff College, Goa University, August 4-31, 1988.
 2. Delivered a talk in the Department of Political Science, Mangalore University, on 'Sociological Tradition in India', October 21, 1988.

1.10 Department of Konkani

i) Teaching and Research Staff

1. Dr. O.J.F. Gomes Professor & Head of Department
Portuguese Lyceum
M.A., Ph.D.
2. Mrs. P.S. Tadkodkar Lecturer
M.A., D.H.E.

Project of "Reconstruction of Konkani Literature" - not sponsored yet - initiated "Suo Motu" expecting it to be sponsored yet for publication of reconstructed and edited texts of old Konkani classics in particular.

- ii) Visits Abroad: Dr. O.J.F. Gomes, visited Toronto, Canada, at the invitation of the Goa Overseas Association, Toronto and participated in the first International Goan convention held in that city from 6th to 22nd August, 1988, inter alia, presenting two papers on (I) "Konkani Language and Literature" and (II) "Goan Cultural Heritage" at the academic conference at the University of Toronto.
- iii) Participation in Seminars, Conferences, Workshops etc.

During the year, Dr. Gomes participated in:

- a) Dr. O.J.F. Gomes participated as member of Executive Board, Sahitya Akademi, New Delhi, in its deliberations at the national and regional level, including chairing of the meeting of the Akademi's Advisory Board in Konkani for development programmes in the language.

- b) Participated in Seminars organised by the Sahitya Akademi:
- (i) In Bombay on 18th November '88 on K.M. Malsai and
 - (ii) In New Delhi on "Freedom and the writer in February 1989.
- c) Participated in the All-India Konkani Sahitya Parishad Golden Jubilee celebrations at Manipal, Karnataka, 6th to 8th Jan. '89 with a presentation on "Portuguese influence on Konkani Language" in a panel discussion on 'Influences of other languages on Konkani'.
- d) Participated in the National Symposium of Poets - A.I.R. Goa - 26th January '89.
- e) Conducted classes and presented papers at the Konkani Shikshak Sanad teaching scheme organised by the Konkani Bhasha Mandal in Margao and Panaji, evaluating their answer books.
- f) Delivered talks over A.I.R. Bombay, Mangalore & Goa on
- 1) A Literary essay "Travel by Bus" (Konkani)
 - 2) The emerging Konkani Short-Story (Konkani)
 - 3) Changing Trends in Konkani Literature (English)
 - 4) and a short story in Konkani - an educational broadcast in the Adult Education Programme of AIR-Panaji.
- g) Attended a select All-India Writers and Artists' Camp (Rachanakar Shivir) organised by the Department of Cultural Affairs, Government of U.P. at Haridwar, in March, 1989.

h) Participated in the National Annual Convention of the Authors Guide of India, at Ranchi, Bihar in May, 1989, and presented the Keynote Paper at the Seminar on "Crisis in Book Culture vis-a-vis the emergence of the other media", later presenting Konkani Poems with their English and Hindi versions at the 'Poetry Readings'.

vi) Publications:

The Department has prepared:

(1) The Manuscript of "Doutrina Christa" (in Devanagari) the source-book of Konkani prose and one of the earliest extant book in any Indian Language, (first Pub. 1622) edited with glossary etc. which is at an advanced stage in unravelling and reconstruction of Manuscript of (2) Devachi Ekangr Bollinnim" (Divine Soliloquies) a Konkani version of an European classic first published in 1660 (about 300 printed pages) (3) Reconstruction and editing of "Eva ani Mori", an epic, long narrative poem of 1001 lines of Eduardo Bruno de Souza (first Publication 1889) is being finalised soon. These await publication in mimeographed or printed form.

1) Dr. Gomes' research work entitled 'Konkani Sorospoticho Itihas' 'Ek Supurullo Niall' (a history of Konkani Literature) was published in book form on 6th January 1989.

2) His comprehensive annual survey article on Konkani books published in 1989 appeared in 'Indian Literature' bimonthly of the Sahitya Akademi, New Delhi, in its issue of Oct-Nov. 1988.

3) Extensive "Canada Diary" appeared in Konkani Literary magazine 'Kullagar' Diwali Issue.

- 4) His notes on several items contributed to the 'Encyclopaedia of Indian Literature' were published in its II volume by the Sahitya Akademi, New Delhi.
- 5) Extensive article on 'Konkani Language and Literature' in Konkani 'Vangddi' magazine issue 1988.
- 6) Article on 'Konkani Language and Literature' appeared in the spring issue Vol 7 No.3 of the Toronto South Asian Review, Toronto, Canada.
- 7) Mrs. Tatkodkar's article on brief introduction to 'Modern Linguistics' appeared in 'Urba' magazine, Diwali issue 1988
- 8) Her interview with Dr. M.L. Sardesai appeared in 'Vangddi' Diwali issue 1988.
- 9) (a) Dr. Gomes was member of the Committee which organised the Cultural programme for Goa University Day Celebrations 1988.
(b) He served on the court of the University and participated in one of its meetings.
(c) Smt. P.S. Tatkodkar attended the All India Youth Festival, Dhanbad, Bihar, as manager of Goa University Youth team, in January, 1989.
- v) Any other details:
 - (a) Dr. Gomes ^{served} as Coordinator for Konkani for the project. 'Encyclopaedia India' of the M.P. Birla Foundation, Calcutta, and contributed to it.
 - (b) He translated the book of select poems 'Mensagem' of the great Portuguese poet, Fernando Pessoa, into Konkani.
 - (c) Contributed Notes to the Konkani Encyclopaedia of the University.

1.11 Department of Philosophy.

i) Teaching Staff

Dr. R.A. Sinari Professor and Head of the Dept.
M.A. (Phil), Ph.D.

Dr. A.V. Afonso Reader
M.A. (Phil)
M.A. (Soc.), Ph.D.

Dr. U.A. Vinay Kumar Lecturer
M.A. (Phil), Ph.D.

Dr. A. Raghu Rama Raju Lecturer
M.A. (Phil), Ph.D.

ii) Contributory Teachers:

Prof. R. Karani, Wilson College, Bombay delivered a series of Lectures on "Symbolic Logic" to M.A. students.

iii) Visitors to the Department :

Professor Richard Sorabji, Professor of Ancient Philosophy, King's College, London gave 3 lectures in the Department. The theme of his lectures were:

"Scepticism"

"Greek Philosophy and Indian Philosophy"

"Islamic Philosophy"

Professor Sorabji's visit was sponsored by Indian Council of Philosophical Research and he was given hospitality by Goa University.

iv) Participation in Seminars, Conferences, Workshops etc.

<u>Name of the Participant</u>	<u>Seminars, Conferences, Workshops etc.</u>
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1) Dr. R.A. Sinari	i) Presented a paper, titled "Sankara and Husserl", at and participated in the all-India seminar on "Sankara" at the University of Madras in March, 1989.
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- ii) Directed and delivered 3 lectures on "Phenomenology and Hermeneutics" at the "Winter school for Pandits in Advanced Western logic" at Ramnathi Goa, in January, 1989. The school was sponsored by Indian Council of Philosophical Research.
 - iii) Participated in and gave 3 lectures on "Structuralists look of Language" at Philosophy Workshop at the University of Bombay in February 1989.
- 2) Dr. A.V. Afonso
- i) Directed and Participated in the all-India symposium on "Technology, Ecology and Heideggerian Ethos" at Goa University on 1-2 December 1989.
 - ii) Participated in the International Seminar on "Radha-Krishnan" in New Delhi in March 1989.
- 3) Dr. U.A. Vinay Kumar
- i) Participated in the symposium on "Technology, Ecology and Heideggerian Ethos" at Goa University on 1-2 December 1989.
- 4) Dr. A. Raghu Rami
- i) Presented a paper, titled "Tracing the (Dis) continuities: A Participating Spectator's Account of Heidegger", and participated in the symposium on "Technology, Ecology and Heideggerian Ethos" at Goa University on 1-2 December 1989.

v) Publications

Dr. R.A. Sinari

- a) "Conflict among Philosophies and the possibility of a Unified Ontology" (in German) in Vier Fragen Zur Philosophie in Africa Asien and Latinamerica. (Wien: Verlag, 1988, pp-77-94).
- b) "Science and its Method" in Science and Society (English and Hindi Editions), Madhya Pradesh Uchcha Shikshan Anudan Ayog, 1988, pp-98-110.
- c) "An Emerge from Nothing" in Freedon, Transcendence and Identity (Delhi: Indian Council of Philosophical Research, 1988, pp.56-65)

vi)

Any other details:

- i. The Department organised an all-India symposium on "Technology, Ecology and Heideggerian Ethos" on 1-2 December 1988. The symposium was financed by Indian Council of Philosophical Research and Goa University and was attended by invitees from Indian Universities.
- ii. The Department organised a symposium on "Whither Indian Philosophy in January 1989. The participants were Prof. Daya Krishna, Prof. D.Y. Deshpande, Prof. M.P. Rege and Prof. Mukund Lath.
- iii. Dr. R.A. Sinari delivered the following lectures:
 - a) 2 lectures on "Phenomenology and Hermeneutics in Social Sciences" at Tata Institute of Social Sciences, Bombay in February 1989;
 - b) A lecture on "Science and the Human Mind" at Casa Fallotti (Seminary), Mapusa, Goa in July 1989.
 - c) A lecture on "Science, Technology and the Future Image of Man" at St. Xavier's College, Mapusa, Goa in August 1989.

2.1 Department of Mathematics

i) Teaching and Research staff:

- 1) Dr. S.G. Deo Professor and Head
M.Sc., Ph.D.
- 2) Dr. Y.S. Prahalad Reader in Applied Mathematics
M.Sc., Ph.D.
- 3) Dr. M.T. Nair Lecturer
M.Sc., Ph.D.
- 4) Shri A. Bannerjee Lecturer
M.Sc.
- 5) Dr. A.J. Jayanthan Lecturer

ii) Visiting Faculty (Long Term):

1. Dr. S.P. Pethe,
M.Sc., Ph.D.

iii) Contributory Teachers:

- 1) Dr. R.G. Velingiri Assistant Prof. in Mathematics
M.Sc., Ph.D. Govt. College of Engg.
Farnagudi. (40 lectures on
paper III B- Differential
Geometry, for M.Sc. Part I).
- 2) Shri Alexander Jacques Lecturer in Mathematics,
M.Sc. Institute of Ship Building
Technology, Vasco-da-Gama
(40 lectures on Paper VI B
Complex Analysis for M.Sc.II)

iv) Visiting Teachers (Short Term)

1. Prof. Rama Mohan Rao Prof. of Mathematics Indian
 Institute of Technology Kanpur.
12 lectures on Advanced
Theory of Differential
Equations to M.Phil students
during April 1989)

v) Visitors to the Department:

Dr. Krishna Kumar, reader in the Department of Mathematics, Calicut University, delivered a series of two talks on the 'Theory of Semigroups of Linear Operators' on August 26 and 27th 1988.

vi) Visits:

- 1) Professor S.G. Deo gave an invited talk on 'Recent Developments in Theory of Differential Equations in a Seminar held in the Department of Applied Mathematics, Andra University, Waltair, on August 31 and September 1, 1988.

He also gave two lectures in each course of the Academic Staff College during the year 1988-1989.

- 2) Dr. M.T. Nair visited the Centre of Mathematical Analysis, Australian National University for carrying out research in Numerical Functional Analysis during March-June 1989. He also gave a talk on 'A Variant of the Modified Projection Method for Integral Equations of the Second Kind' at the Department of Mathematics, University of New South Wales, Sydney, on June 14, 1989.

vii) Research Publications:

1. M.T. Nair:

- i) Approximation of Spectral Sets and Spectral Subspaces in Banach Spaces.
J. Indian Math. Soc. Vol. pl-14(1989)
- ii) A Note on Rayleigh Schroedinger Series
J. Math. and Phys. Sci. Vol 23 pp185-183 (1989)
- iii) Localisation of Simple Eigenvalue and a Converging Eigenvector (with B.V. Limaye) Houston J. of Maths. Vol. 14, pp 129-141 (1988)
- iv) On the Accuracy of Rayleigh-Schroedinger Approximations (with B.V. Limaye) J. Math. Anal. and App. Vol. 139,00 pp 1413-431 (1989)

viii) New Programme in the Department:

During this period the department started a two year part time M.Phil programme, aimed at both training potential research scholars and improving the knowledge base of teachers already in service. The programme consists of three written papers and one dissertation. At the moment only 7 students are being admitted.

In addition to the above the department has formulated a number of new courses for the revised curriculum which comes into effect from June '89.

ix) Research Staff :

Mrs. Jayashree Unikrishnan M.Sc. C.S.I.R. Senior Research Fellow.

x) Research Fellows:

	<u>Name of teacher</u>	<u>Full time</u>	<u>Part time</u>	<u>Total</u>
1.	Dr. S.G. Deo	1	1	2
2.	Dr. Y.S. Prahalad	0	3	3

xi) Research Reports:

On Iterative refinements for Spectral Sets and Spectral subspaces, Australian National University, CMAIR-1989.

xii) Any Other details

Dr. Sudhakar G. Pandit, Associate Professor, Dept. of Mathematics, Winston-Salem University, WINSTON-SALEM NC U.S.A. gave a lecture on 'Iterative Solution of Nonlinear Hyperbolic Equations' on August 18, 1988.

2.2. Department of Physics

i) Teaching Staff

1. Dr. C. Mande Professor & Head of the
M.Sc., Ph.D. Department .
(Allahabad),
D.Sc. (Paris),
F.A.Sc., F.N.A.Sc., F.M.A.S.
2. Dr. R.B. Prabhu Reader
M.Sc., Ph.D.
3. Dr. J.A.E. De Sa Reader
M.Sc., Ph.D.
4. Dr. G.R. Bhat Lecturêr
M.Sc., Ph.D.
5. Dr. (Miss) Uma Lecturer
Subramanium,
M.Sc., Ph.D.

ii) Contributory Teachers

1. Professor V.P. Sahakari, M.Sc., Lecturer from Dhempe College gave 40 lectures.
2. Dr. A.K. Heblekar, M.Sc., Ph.D. Principal of P.E.S. College gave 35 lectures.
3. Prof. A.F. Barbosa, M.Sc., Lecturer from Dhempe College gave 25 lectures.
4. Prof. R.B. Tangasali, M.Sc., Lecturer, Dhempe College gave 20 lectures.
5. Prof. A.B. Coelho, M.Sc. Lecturer from St. Xavier's College gave 15 lectures.
6. Prof. C.R. Bhonsule, M.Sc., Lecturer from St. Xavier's College gave 20 lectures.
7. Prof. R.R. Ghantwal, M.Sc. Lecturer from Chowgule College gave 20 lectures.
8. Prof. S.N. Pai Raiturkar, M.Sc. Lecturer from Chowgule College gave 40 lectures.
9. Prof. S.M. Sadique, M.Sc., Lecturer from Chowgule College gave 35 lectures.
10. Prof. N.V. Kamat, M.Sc., Lecturer from Chowgule College gave 20 lectures.

iii) Participation in Seminars, Conferences, Workshops, etc.

<u>Name of the participant</u>	<u>Seminars, Conferences, Workshops, etc.</u>
a) Dr. C. Mande	National meeting on Super-conductivity held in the U.G.C. office at Delhi on 23rd January, 1989.
b) Dr. J.A.E.De Sa	Regional workshop on IRS-IA Mission and Application Potentia held at NIO, Goa on January, 31, 1989, organised by the Department of Space, Govt. of India.
c) Dr. G.R. Bhat	Workshop on Quantum Optics organised by the Bhabha Atomic Research Centre, Bombay at Panaji from March, 18-22.1989.

iv) Publications :

1. Dr. C. Mande (with A.D. Vishnoi and V.B. Sapre)
XANES study of tungsten L III discontinuity in some rare earth tungstates.
X-Ray Spectrometry ,U.S.A., Vol.17,P.213 (1988).
2. Dr. R.B. Prabhu (with R.B. Tangsali)
Self-consistent calculations in the theory of mix-valence. Physica Status Solidi (b), Vol.149, p.623 (1988).
3. Dr. R.B. Prabhu
Spectral function for the mix-valence system.
Physica Status Solidi (b), Vol.151, K141 (1989).
4. Dr. R.B. Prabhu (with A.F. Barbosa)
Low temperature resistivity of mix-valent.
 $\text{Ce}_{0.76} \text{La}_{0.14} \text{Th}_{0.1}$
Physica Status Solidi (b) ,Vol.151, K45 (1989).
5. Dr. J.A.E.De Sa (with P.C. Goyal ,S.L. Narasimhan, B.A. Dasannacharya ,B.S. Valaulikar, V.K. Kelkar and C. Monohar). Small angle neutron scattering measurements of Micelle to Gel transition in solutions of CTAB and Sodium Salicylate, Materials Science Forum, Vol.27-28 p.163 (1988).
6. Dr. J.A.E.De Sa (with P.S. Goyal ,R. Chakravarty, B.A. Dasannacharya, V.K. Kelkar, C. Manohar, S.L. Narasimhan, K.R. Rao and B.S. Valaulikar)
SANS from Micellar Solutions of CTAB and Sodium Salicylate. Physica B. Vol.156 and 157, p.471 (1989).

v) Visitors to the Department

1. Dr. (Miss) P.V. Koparkar Scientist, Indian Institute of Geomagnetism delivered a lecture from 9 to 16, 1988 on Beacon satellite studies in India,
2. Dr. R G. Rastogi Director, Indian Institute of Geomagnetism, Bombay delivered a lecture from Jan.16-18 1989 on Recent trends in geomagnetic studies with respect to the Indian sub-continent.
3. Professor R. Kassing Kassel University, Kassel, West Germany delivered a lecture from March 2-4 1989 on Plasma Processes and their structures for micro-electronics.
4. Professor R. Bullough Institute of Science & Technology, University of Manchester, on March 21st 1989 on "Quantum Optics and Non-Linear Phenomena".

vi) Visits abroad

Dr. C. Mande visited U.S.A. during the summer vacation of 1989. He visited the Massachusetts Institute of Technology and the Harvard University in May-June 1989.

vii) Research Students

Ph.D. students

Name of the Guide	No. of students	
	Full time	Part time
Dr. C. Mande	-	4
Dr. R.B. Prabhu	-	2

viii) The Department started a two year M.Phil. programme in physics in this academic year. Six students were admitted to this course.

ix) Research Projects :

- (i) Work on the project "Superconductivity " granted by the U.G.C. is in progress.
- (ii) Work on the project "Inospheric Studies" granted by the Indian Institute of Geomagnetism, Bombay is being carried out.
- (iii) In addition to the above sponsored projects, the Department is actively engaged in research on several aspects of condensed matter physics.

x) Co-Curricular activities

1. Dr. C. Mande gave a talk on the AIR, Panaji, on "Raman, his life and work" on the 28th February, 1989.
2. Dr. J.A.E. De sa gave a talk on "Mystery and Science" on the AIR , Panaji, on 16th February, 1989.
3. Dr. G.R. Bhat gave a course of 40 lectures on "Numerical Methods & Fortran Programming" in the Department of Computer Science & Technology, Goa University.
4. Dr. G.R. Bhat gave a talk on "Recursion & Geometry" in the Department of Computer Science & Technology, Goa University.
5. Dr. G.R. Bhat gave a course of 8 lectures on "Biostatistics" in the Department of Microbiology, Goa University ,

xi) Any other details

- i) The Raman Society comprising students, research scholars and teachers of the Department was founded on September 17, 1988. The main objectives of the society are to inculcate and promote active interest in Physics beyond the normal curriculum of study and research. The inaugural function which was held on October 14, 1988 was presided over by Prof. S.G. Deo ,Dean of the Faculty of Pure Sciences and the Chief Guest was Prof. T.S.S. Rao, Head of the Department of Marine Sciences, Goa University.

- ii) A Winter School in Astronomy and Astrophysics was organised during the period October 24 to November 2, 1988 in collaboration with the Tata Institute of Fundamental Research, Bombay. Twenty nine students from the different colleges and University departments in Goa participated in this Winter School. Six eminent scientists from the TIFR came to Goa to give lectures in this Winter School. The purpose of this Winter School was to acquaint young science students of Goa with the advancing frontiers of knowledge in this field and to inspire them for taking up research careers in this branch of knowledge.
- iii) An educational tour of the students of the Department was undertaken to Bangalore during the period 14th to 20th February, 1989, under the guidance of Dr. J.A.E. De Sa. The group of eleven students visited the following laboratories and institutions in Bangalore: Indian Institute of Science, Raman Research Institute and Visveswaraya Museum.
- iv) A Workshop on Electronics was held in the Department during the period March 7-8, 1989. All the students of the Department participated in it. Lectures and demonstrations were given by the following : Prof. S.M. Sadique of the Chowgule College, Madgaon, Shri Chandrakant Naik of the Govt. Polytechnic, Panaji, and Shri Prabhu Desai of National Institute of Oceanography, Dona Paula,
- v) Ten M.Sc. Part II students gave a series of seminar talks on various subjects during the academic year under the auspices of the Raman Society.

2.3. Department of Chemistry

The Department consists of three disciplines, Inorganic, Organic and Physical Chemistry, Post-graduate degrees are awarded in each of the discipline separately.

i) Teaching Staff

Dr. J.S. Budkuley functioned as the Officiating Head of the Department. Prof. S.K. Paknikar, Head of the Department (On leave) and National Fellow continued to offer guidance to research students. Details of the members of teaching staff during the year and their designation are as follows :

<u>Name</u>	<u>Designation</u>
1. Dr. S.K. Paknikar, M.Sc., Ph.D.	Professor
2. Dr. V.N. Kamat Dalal, M.Sc., Ph.D.	Reader
3. Dr. J.K. Kirtany, M.Sc., Ph.D.	Reader
4. Dr. B.D. Desai, M.Sc., Ph.D.	Reader
5. Dr. J.B. Fernandes, M.Sc., Ph.D.	Lecturer
6. Dr. J.S. Budkuley, M.Sc., Ph.D.	Sr. Lecturer
7. Dr. S.P. Kamat, M.Sc., Ph.D.	Lecturer
8. Dr. K.S. Rane, M.Sc., Ph.D.	Lecturer
9. Dr. V.P. Kamat, M.Sc., Ph.D.	Lecturer
10. Dr. A.V. Salkar, M.Sc., Ph.D.	Lecturer
11. Dr. John B. Fernandes, M.Sc., Ph.D.	Lecturer
12. Dr. S.G. Tilve, M.Sc., Ph.D.*	Lecturer

(*awarded in January, 1989)

Deletion

12. Dr. N.L. Borker, M.Sc., Ph.D.	Lecturer
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(resigned and relieved on 17-11-88)

ii) Contributory Teachers

During the year, Contributory teaching was also done by the following teachers.

1. Prin. (DR) N. Pereira, M.Sc., Ph.D., Principal, St. Xavier's College,
2. Shri E.M. Raykar, M.Sc. Lecturer and Head of Chemistry, Department of Smt. Parvatibai Chowgule College.
3. Dr. G.N. Natu, M.Sc., Ph.D. Lecturer, Department of Chemistry Poona University.

(iii) Visitors to the Department

1. Dr. Walter Liebenow, Nwenberg, West Germany. delivered a talk on "Newer Synthetic Routes to some Pharmaceuticals and Drugs" on 17th December, 1988.
2. Prof. A.E. Greene, Director de Recherche, CNRS, Grenoble, France, delivered a talk on "Synthesis of some Novel Natural Products" on 13th January, 1989.

(iv) Details of Research Students :

1. Four students for Ph.D. degree under the guidance of Prof. S.K. Paknikar.
2. Three students for Ph.D. degree under the guidance of Dr. V.N. Kamat Dalal.
3. One student for M.Sc. by Research under the guidance of Dr. B.D. Desai.

During the year Ms. Lina Sardesai was awarded Ph.D. degree of Bombay University under the guidance of Prof. S.K. Paknikar.

(v) Publications

1. S.P. Kamat & S.K. Paknikar Acylation of Phenols with Salicylic acid using Polyphosphoric Acid. Indian Journal of Chemistry 27B. 773 (1988).
2. I. Furtado, S. Mavinurva Microbiological transformation of - santonin to 11-demethyl. eudesm-4-ene-3,6-dione. Letters in Applied Microbiology, 6, 27 (1988)
3. S.K. Paknikar and and Jivexa Petel A biomimetic one-step synthesis of (+) -3,10-dihydro deoxydielmentha-4,9-dione. Chemistry and Industry (Lond.) , 529 (1988).
4. S.K. Paknikar and A.E. Greene Synthesis of (-) Biflora-4,10(19), 15-triene. J. Nat .Prod., 51, 326 (1988).
5. J.S. Budkuley and K.C. Patil Synthesis and Thermoanalytical properties of Mixed metal Sulfite Hydrate Hydrates - I Synthesis. and Reactivity in Inorganic and Metal Organic Chemistry, 9(1989).
6. J.S. Budkuley and K.C. Patil. Thermal properties of Magnetism Bisulfite Hydrate Hydrates. Thermochemica Acta 153, 419(1989).
7. Michiharo Kato, Vajayendra Kamat & Akira Yoshikoshi An Facile and Efficient preparation of Alkyl -6-Oxo-1-Cyclohexene-Carboxylates. Synthesis (USA) 9, 699 (1988).

8. Michiharo Kato, Vajayendra Kamat Youchi Tooyama and Akira Toshikoshi
An Electrophile-initiated opening of Cyclobutone Ring in (+) -Cis-3-Methylnopinone. Journal Organic Chemistry 54, 15388 (1989).
9. A.V. Salkar ,D.K. Chakraborty and H.V. Keer
Catalytic redox reaction of nitric oxide and carbon monoxide on perovskites. Indian Journal of Chemistry 28 A,458(1989).

(vi) Participation in Seminars/Conferences/Workshops

<u>Name of the participant</u>	<u>Seminar ,Conference,Workshops.</u>
1. Dr. V.N. Kamat Dalal and Dr. K.S. Rane	attended VIIIthe Annual Conference Indian Council of Chemists, Sri Venkateshwar University,Tirupati, 24-26 Oct.1988. Dr. K.S. Rane presented two research papers.
2. Dr. J.S. Budkuley	attended International Symposium on "Industrial Metal Finish" from 1-5-1989 at Central Electrochemical Research Insfitute Karaikudi,TN.
3. a) Dr. J.B. Fernandes	attended a workshop in "Evaluation Methodology and Examinations" organised by Association of Indian Universities 31st January and 1st February,1989 at Bombay
b) Dr. J.B. Fernandes	participated in one week training in Advanced Techniques in Catalysis October 1988 at NCL, Poona.
c) Dr, J.B. Fernandes	attended the National Symposium in Catalysis organised by Catalysis Society of India, Madras,15-17 December,1988.
4.a)Prof. S.K. Paknikar	delivered a talk entitled 'Synthesis of Coumarins by transfer of a C ₃ unit of Cinnamic acids to Phenols' at the Symposium held at University of Poona, 18-19 November,1988.
b)Prof. S.K. Paknikar	delivered a talk entitled "Contribution to Terpenoid Chemistry" on invitation at the seminar held at National Chemical Laboratory, Pune, 24th February,1989.

2.4. Department of Microbiology

i) Teaching and Research Staff :

- i) Dr. S. Mavinkurve Prof.& Head of the Department
 Ph.D.
- ii) Dr. J. D'Souza, Ph.D. Reader
- iii) Dr. I. Furtado, Ph.D. Lecturer
- iv) Dr. S. Bhosle, Ph.D. Lecturer
 (with effect from
 5th September, 1988)

B. Research Staff

- i) Dr. S. Nazareth Research Associate (C.S.T.R.)
 Ph.D.
 (w.e.f. 1st June, 1988)
- ii) Mr. Milton Fernandes Research Assistant cum
 B.Sc. Technician
 (August 19-December 19, 1988)
- iii) Mrs. S.M. Kaliwal Junior Research Fellow
 M.Sc. (K.V.I.C.)
 (December 20, 1988-
 March 19, 1989).
- iv) Ms. C. Fernandes Junior Research Fellow
 M.Sc. (w.e.f. March 20, 1989)
- v) Mr. B. Rodrigues Junior Research Fellow
 M.Sc. (K.V.I.C.)
 (w.e.f. March 20, 1989)

ii) Contributory Teachers

A. Practical

<u>Name of Person</u>	<u>Institutions</u>
i) Dr. S. Nazareth	Research Associate practicals
ii) Ms. D. Pacholi	Research student "
iii) Ms. A. Gonsalves	Ex-student
iv) Dr. R. Mello	Scientist, BARC.

B. Lectures

Name	Designation	Insti- tution	No. of lectures per term	
			I	II
i) Dr. S. Nazareth	Research Associate	Department Microbiology	2	-
ii) Dr. G.R. Bhat	Lecturer	Dept. of Physics, Goa University.	-	6
iii) Dr. L. Sardesai	Lecturer	Chemistry Department	-	10

iv) Dr. M.B. Kaliwal	Entomologist	Directorate of health services	10	-
v) Ms. A. Barreto	Head PHTF	Govt. Polytechnic, Goa.	7	-
vi) Dr. S.F. D'Souza *	Scientist	BARC Bombay	-	4
vii) Dr. K. Godbole *	Scientist	BARC Bombay	-	1
viii) Dr. K.M. Desai	Asstt. Director	Haffkine Bombay	-	2
ix) Dr. Ranade*	Scientist	Cancer Research Centre, Bombay.	-	2

*Lectures delivered during field trip to Bombay.

iii) Visitors to the Department

The following lectures/talks were organised by the department jointly with the Goa Unit of Association of Microbiologists of India.

Date	Speaker	Topic
30.9.88	Dr. M.C. Srinivasan NCL Pune	Perspective of Cellulose biotechnology.
6.12.88	Dr. U.M.X. Sangoikar EPA, U.S.A.	Molecular genetic aspects of 2,4-5 trichlorophenoxyacetic acid degradation.
10.1.89	Dr. S. Chakraborti GMC, Goa	Senescent cell Antigen- In vivo aging of RBC.
15.2.89	Dr. Sipiczki L.K. University, Hungary,	Protoplast fusion in Schizosaccharomyces

iv) Visits and discussions.

Date	Parent institute of Visitors	Purpose
23.9.88	Research students of cell and Molecular Biology.	The department Research discussion
5.10.88	Academic College, Goa University	Visit
10.10.88 to 12.10.88	MACS, Pune	Help in collection of mushrooms from Goa.
4.12.88	Dr. S.R. Udupa, BARC Bombay	Enzymes and biodegradations. Discussion.
2-1-89	Participants of Regional course, Pune.	Research discussion
5-1-89	Students of M.Sc. (Biosciences) of Mangalore University.	Research discussion
1-4-89	Dr. D.E. Morse, Marine Science Institute, California, U.S.A.	Phage-host interactions Research Discussion

v) Visits Abroad

Dr. J.D'souza attended the ATCC symposium at Maryland University , U.S.A. from October,1988 - November,1988.

vi) Participation in Seminars, Conferences & Workshops

- i) Dr. S. Mavinkurve attended a symposium on Gene Technology held at Osmania University, Hyderabad from 9th - 11th September,1988.
- ii) Dr. J.D'Souza acted as a resource person for International Workshop on Preservation of Microorganism at MACS, Pune, from 1st-3rd January,1989.
- iii) Dr. I. Furtado and Dr. S. Nazareth attended the A.M.I. Conference held at Haryana University of Agriculture, Hissar from 9th - 11th February,1989.
- iv) Dr. I. Furtado attended a workshop on 'Advances in fermentation Biotechnology' at MSU Baroda from 27th March - 8th April,1989.

B. Participation outside department activities

- i) Dr. S. Mavinkurve attended a seminar on 'Women's Studies held at Tata Institute of Social Sciences, Deonar, Bombay from 12th - 14th September,1988.
- ii) Following staff members were office bearer of Association of Microbiology of India (Goa University).
 1. Dr. S. Bhosle - Treasurer
 2. Dr. I. Furtado - Secretary

vii) Study Tour

M.Sc. Part II students were taken to following institutes in Bombay for their annual study tour, from 27th January to 5th February,1989.

- i) Cotton Technological Research Laboratory.
- ii) Foundation of Medical Research.
- iii) University Department of Chemical Technology.
- iv) Haffine Institute
- v) Institute for Research in Reproduction
- vi) Department of Food Technology & Enzyme Engineering Ehabha Atomic Research Centre.
- vii) Department Cell and Molecular Biology T.I.F.R.
- viii) Cancer Research Institute
- ix) Hindustan lever limited.

viii) Publications

- i) U.M.X. Sangodkar and S. Mavinkurve,1988,
Techniques for screening and maintaining smaller genomic libraries.
DNA and-Protein Engineering Techniques (U.S.A.) 1(4)
48-51.

B) Paper presented

The following papers were presented at Annual Conference of Microbiologists of India held at Haryana University, Hissar from 8th February - 11th February, 1989.

- i) Nazareth S. and S. Mavinkurve 1989. Transformation of F. coumaric acid by Fusarium Solani (Mart) Sacc.
- ii) Kaliwal S., G.I. Hukkeri and S. Mavinkurve 1989 studies on the retting process of Agave leaves.
- iii) Kaliwal S., S. Bhosle and S. Mavinkurve 1989. Studies on emulsification of longifolene by Arthrobacter Sp.
- iv) Pacholi D and J.D'Souza 1989 cellulase production by Aspergillus terreus M₃.
- v) Menezes Y., I. Furtado and S. Mavinkurve, 1989 studies on characterisation of pigment.
- vi) Gonsalves, A.I. Furtado and S. Mavinkurve 1989 studies on temperature bacteriophage from Pseudomonas cichorii S.

ix) Research students

<u>Name of Research guide</u>	<u>Research Degree</u>	<u>No. of students working</u>
i) S. Mavinkurve	Ph.D.	3
	M.Sc.*	1
ii) J.D'Souza	Ph.D.	3
	M.Sc.	2

*M.Sc. Dissertation M.Sc. (Marine Science)

x) Research Projects

Following research projects sanctioned to Prof. S. Mavinkurve are being funded in the Department of Microbiology.

<u>Project title</u>	<u>Sanctioned</u>	<u>Date of</u>	<u>Funds</u>
"Feasibility of growing Agave on mining rejects and retting of Agave leaves	Khadi and village Industries Commission	w.e.f. 1988-89	Rs.5.00 lakhs
"Genetic studies on Pseudomonas strain transforming a santonin-	Department of atomic enrgy Bombay	w.e.f. 6-5-89	Rs.2,37,900

xi) Others :

- i) Department screened following scientific video films borrowed from British Council Library Bombay.

- a) 1-9-88
- (1) Nucleic Acid techniques-
 - (2) Gene Analysis & Southern Blotting.
 - (3) Gene Libraries
 - (4) DNA sequencing using M13.
- b) 21-10-88
- (1) Expression of cloned genes
 - (2) Oligonucleotide sequencing use.
 - (3) Micro dissection and Microbiology.
 - (4) In vitro muta mutagenesis.
- c) 23-3-1989
- (1) Radio isotope in action
 - (2) Disposal of radio active waste
- ii) The Department jointly with AMI (Goa Unit) conducted a poster competition for Undergraduate and post-graduate students of science colleges of Goa on January 12th ,1989 on the following topics.
1. Microbes Environment and Pollution
 2. AIDS epidemic
 3. Biotechnology and future of Man.
- iii) Conducted a seminar on HPLC, lectures cum demonstrations sponsored by Ms. NULAB, India.
- iv) Department started a news letter, "Microcosmos w.e.f. November 1st 1988.
- v) Extended Laboratory facilities for conducting B.Sc. Home Science Microbiology practicals .
- vi) Extended facilities for regular meetings of the Association of Microbiologist of India ,Goa Unit.

2.5 Department of Geology .

i) Teaching Staff

- 1) Dr. A.G. Desai, Reader and Head, of the Department. M.Sc., Ph.D.
- 2) Dr. P.S. Raikar, Reader in Geology, M.Sc., Ph.D.
- 3) Dr. T.A. Vishwanath, Lecturer in Geology, M.Sc., D.I.T., Ph.D.
- 4) Dr. K. Mahender, Lecturer in Geology, M.Sc., Ph.D.
- 5) Shri A.G. Chachaddi, Lecturer in Geology, M.Sc., (Ph.D. thesis submitted).

ii) Participation in Seminars, Conferences, Workshops, etc.

<u>Name of the participant</u>	<u>Seminar, Conferences, etc.</u>
i) A.G. Desai	attended Regional Seminar on IRS-IA Mission and its applications organised by Department of space, Government of India at Panaji, 1989.
ii) P.S. Raikar	attended National Symposium on application of geochemistry organised by Shivaji University, Kolhapur, 1988 and presented a paper entitled Application of stochastic modelling and forecasting of geochemical components (Al_2O_3) in the iron ores of north Goa.
iii) A.G. Chachaddi	attended All India seminar on Ground Water Development, organised by U.P. State. Groundwater Investigation Organisation Lucknow 1988.

iii) Publications

- 1) Karmalkar N.R., Desai A.G. and Leblanc, M. (1989) SEM Morphology and geochemistry of podiform chromites from ultramafites of Indus Ophiolite Belt, Ladakh Himalaya: in Ghare M - (ED.) Phanerozoic Ophiolites of India. Sumna Pub. Patna pp. 119-32.
- 2) Chachadi A.G. (1988) Analysis of large diameter well test data using drawdown recovery method, Hydrology journal of the Indian Association of Hydrologists V.11.pp. 29-36.
- 3) Chachaddi A.G. (1988) Determination of aquifer parameters using Rosenbrack optimisation techniques, journal of the Institution of Engineers (India), Civil Engg. Div V.69, pp. 160-62.
- 4) Mahender K. and Banerji R.K. (1989) Textural study and depositional environment of sand grains from rocks of Jaisalmer Formation, Jaisalmer district, Rajasthan, India Journal of the Geological Society of India V.33, pp.228-42.

3.1 Department of Marine Science.

(A) M.Sc. in Marine Science.

i) Teaching Staff.

- | | |
|--------------------------------------|--------------------------------------|
| 1) Dr. T.S.S.Rao
M.Sc., D.Sc. | Coordinator & Head of
Department. |
| 2) Dr. C.L.Rodrigues
M.Sc., Ph.D. | Lecturer |
| 3) Dr. G.N.Nayak
M.Sc., Ph.D. | Lecturer |
| 4) Mr. H.B. Menon
M.Sc. | Lecturer |
| 5) Mr. S.Upadhyay,
M.Sc. | Lecturer |

ii) Contributory Teachers:

Scientists from Physical, Chemical, biological, geological and Instrumentation divisions of NIO.

iii) Publications/participation in seminars, conference, workshop/visits abroad/any other developmental work.

a) Dr. T.S.S. Rao

1. Organised workshop on Western Ghats region, research work assessment.

R & D.

2. Field trip to Lakshadweep between 22-1-89 and 29-1-89 to collect data and samples to work for the departmental project.

b) Dr. C.L.Rodrigues

R & D.

1. participated in research/training cruise No.198 on board R.V.Gaveshni between July 11th-17th 1988.
2. Field trip to Lakshadweep to collect data and samples for the departmental project. Trained M.Sc. (Marine Science) Part I students.
3. Guided four M.Sc. dissertations on zooplankton and phytoplankton of Arabian sea and Algae and intertidal organisms of Anjuna beach 1989.

c) Dr. G.N. Nayak

Publications

1. Sand ripples after south west monsoon, shankrubag- Arge beach, near Karwar, India - Shore and beach observations shore and Beach vol 57 No 2 page 37 1989.
2. Grain size parameters and depositional environment of River, Beach and Coastal dune sediments Near Karwar west coast of India.
3. Proceedings of international seminar "Coastal zone Charleston south carolina USA pp 400-410 1989.

Seminar/conference

3. Morphological variations due to artificial dumping Kinkad (Baithkol) beach near Karwar west coast of India.
Submitted to National Conference in coastal zone management CESS Cochin 1989.

R & D

4. Field trip to Lakshadweep between 22-1-89 and 29-1-89 to collect data and samples to work for the departmental project.
5. Guided two M.Sc. dissertation on beach sediments of Miramar and Chapora beaches, 1989.

Paper communicated

6. Grain size parameters as indicators of beach sediments movement at Karwar and Sadushivgad beaches west coast of India.
13th International sedimentological congress going to held at Nottingham England August 1990.

d) Mr. H.B. Menon

Publications

1. Land sea delination in the visible channel of land sat TM" accepted defence Science Journal.

Seminars/Conference.

2. Attended seminar on sea level variation held at NIO during 1988.
3. Gave contributory lecture and display of the image processing system have been given in the Training Programme on Satellite Oceanography held at NIO during Nov. 14-23 1988.

R & D

4. Field trip to Lakshadweep in the month of Jan, 1989 to collect data to work for the departmental project.

Papers communicated.

5. Fronts and Biological productivity.
Accepted for post presentation in the joint oceanographic assembly (JOA) going to held at Acapica Mexico in Aug 1988.
6. Fronts a biogeographical Area.
Accepted for oral presentation in the 3rd international conference on the southern Hemisphere meteorology and Oceanography ~~was~~ held at Argentina during Nov. 13-7 1989.
- e. Mr. S.Upadhyay.

R & D

Field trip to Lakshadweep to collect data and samples to work for the departmental project.

iii) Research students

Debbie Fernandes, Yashoshri and Shripad Bhat have participated in cruise programme No 198 on board R.V. Gaveshani between 11th to 13th July 1988.

M.Sc. Part I (1987-88) students have participated in the field trip to Lakshadweep.

iv) Research Project

i) Larval settlement and colonization of shell fishes of Goa and animal-sediment inter-relationship.

Investigator - Dr.T.S.S.Rao

- ii) Tazamonial and ecological survey for perumal park and of the sand and coral bank between pittti and amini islands in the Lakshdweep.

Coordinator -Dr.T.S.S.
Coordinator - Dr. T.S.S. Rao
Investigator- Dr. C.L. Rodrigue
Dr. G.N. Nayak.

- iii) Studies on sediment flux of river, estuary and adjoining coastal waters of Goa, west coast of Ind (Sanctioned yet, to start)

Investigator - Dr. G.N. Nayak

v) Research students:

- i) Ms. Debbê Fernandes (Marine Biology)
ii) Ms. Yashoshri Shrivastava (Marine Biology)
iii) Mr. Shripad Bhat (Marine Biology)

(B) M.Sc. in Marine Biotechnology.

- i) Teaching and Research Staff in the Dept.
Dr. T.S.S.Rao, Professor.

ii) Contributory Teachers.

Teachers and scientists from different universities and institutes of India.

iii) Visiting Teachers in Biotechnology

1. Dr. S .Mavinkurve, Dept. of Microbiology
Goa University
2. Dr. Joe D'Souza, Dept. of Microbiology
Goa University.
3. Dr. M.V.Joshi (Pune University) Pune
4. Dr. N.N. Godbole (Pune University) Pune.
5. Prof. V.V.Modi (M S University) Pune
6. Prof. Naresh Singh (Tata Institute of Fundamental
Research)
7. Dr. K.Manoharan (Madurai Kamaraj University,
Madurai)

iii) Contributory Teachers

1. Shri V.S. Amonkar, a Lecturer in Mathematics, Chowgule College of Arts & Science, Margao, delivered 16 lectures on "Linear Algebra".
2. Shri J.A. Menezes, a Lecturer in Mathematics, Shempe College of Arts & Science, Panaji, delivered 24 lectures on "Computer Oriented Statistical Methods".
3. Miss Ruth D'Souza, a Lecturer in Sociology, St. Xavier College of Arts & Science, Mapusa, delivered 18 lectures on "Introduction to Behavioural Sciences".
4. Shri K.P. Pathak, a Lecturer in Commerce, Govt. Polytechnic Panaji delivered 9 lectures on "System & Information Concepts Organisations".
5. Dr. B.L.N. Sastry, Asstt. Professor, Goa Engineering College, Farnagudi, delivered 30 lectures on "Computer Oriented Optimisation Model-II".
6. Shri P.N. Timble, Principal, G.R. Kare College of Law, delivered 30 lectures on "Managerial Economics".
7. Dr. G.R. Bhat, a Lecturer in Physics, Goa University delivered 44 lectures on "Computer Oriented Numerical Methods besides conducting classes for practicals".
8. Shri B. Ramesh, a Lecturer in Commerce & Business Administration delivered 43 lectures on "Accounting & Financial Management".

iv) Visiting Teachers

1. Dr. G.A. Patwardhan, Professor & Head, Mathematics Department I.I.T. Powai, Bombay delivered 37 lectures on "Discrete Mathematical Structure".
2. Dr. M.N. Gopalan, Assoc. Professor, Mathematics Department I.I.T. Powai, Bombay, delivered 37 lectures on "Computer based Optimisation Model-I".
3. Dr. K. Subudhi, a Lecturer, Department of H & S. S., I.I.T. Powai, Bombay, delivered 12 lectures on "Introduction to Behavioural Sciences".
4. Dr. R. Ghadeyali, Assoc. Professor, Department of H & S. I.I.T. Bombay, delivered 9 lectures on "Introduction to Behavioural Sciences".
5. Shri A.G. Joshi, Sr. Staff Scientist, National Centre for Software Technology, Bombay delivered 14 lectures on "Computer System Architectures".

4.1 Department of Commerce.

i) Teaching Staff

- | | |
|--|---|
| 1. Dr. S.N.Maheshwari
M.Com., Ph.D. | Prof. and Head of the
Department (from 18/7/88
to 18/10/88) |
| 2. Mr. B.Ramesh
M.Com., M.Phil | Lecturer in Commerce |
| 3. Dr. P.N.Reddy
M.Com., Ph.D. | Lecturer in Commerce |
| 4. Mr. M.Nandakumar
M.Com. | Lecturer in Commerce |

ii) Contributory teachers.

1. Prof. A.P.Kamat, Vice-Principal from Dempo College of Commerce delivered 48 lectures in M.Com. Part I.
2. Prof. E.M.Travassos from Chowgule College delivered 48 lectures in M.Com Part II.

iii) Publications

B.Ramesh -

- a) Published "Sensitivity Analysis - A tool to ensure health of small-scale Industrial units" (Edited by Prof. T.S.Reddy) 'Sickness in small Industry' published by Sultan Chand & Co.

b) Under Publication

1. "An Evaluation of Training Strategies for Managerial cadre in commercial Banks - A case study"
2. Dr. P.N.Reddy
Under publication:
 1. "Marketing problems of Rural Industries"
Indian journal of Marketing.

iv) Visitors

1. Dr.P.Seshaiah, Prof. of Commerce, S.V.University Tirupati addressed the students of M.Com Part II.

v) Participation in seminars, conference, workshops etc.

<u>Name of the Participants</u>	<u>Seminars, conference: etc.</u>
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- | | |
|---------------------|---|
| 1. Mr. B.Ramesh | 1. Participated at the International symposium on 'New Trends in Accounting' organised by the Kausali Institute of Management, Dharwad University, Dharwad in October '83.

2. Participated in the one month orientation course for college and University Teachers conducted by the Academic Staff College, Goa University from 4.08.88 to 31.08.88. |
| 2. Dr. P.N.Reddy | Participated in one month's orientation courses conducted by the Academic Staff College, Goa University from 4.08.88 to 31.08.88. |
| 3. Mr. M.Nandakumar | 1) Participated in one month's orientation courses conducted by the Academic Staff College, Goa University from 4.08.88 to 31.08.88.

2) Participated in UGC Seminar on 'Research Methodology' at Cochin University, 22-27th May, 89. |

vi) a) Research Projects Undertaken.

<u>Name of the Researcher</u>	<u>Research Project.</u>
-------------------------------	--------------------------

- | | |
|----------|---|
| B.Ramesh | a) A Minor Research Project on 'Manpower Planning and Development in Commercial Banks' sanctioned by the UGC. |
|----------|---|

- b) A survey Report on 'SBI Market Survey of customer services in Goa' sponsored by SBI (in association with Mr.Satish Hegde, Lecturer Business Administration)

b) Project proposals

Dr. P.N.Reddy

'Marketing problems of Kh. and Village Industries in Goa' sent to the UGC.

vii) Guest Lecturers outside:

Name of the faculty

Place of lectures

1. B.Ramesh

- a) Taught 'Financial Accounting at MMS I semester and Management Accounting' and 'Perspective Management' at MMS II semester course of Department of Management.
- b) Taught 'Accounting and Financial Management' at MCA II semester course of Department of Computer Science and Technology, Goa University.
- c) Delivered 4 lectures on the 'Financial Ratio analysis' in the Department of Economics, Goa University.

2. Dr.P.N.Reddy

- a) Taught 'Indian Economy at MMS I semester courses of Department of Management Studies, Goa University.

3. Mr. Nandakumar

- a) Taught 'Business Law' at MMS I semester and 'Business Finance at MMS II semester course of the Dept. of Management studies, Goa University.

viii) Contribution to co-curricular Activities.

Name of the Faculty member and Activity.

1. B.Ramebh : Organised a study tour programme to Southern India, undertaken by the M.Com Part I and Part II students in the month of February.

ix) Subjects Taught by the faculty members of the Dept. of Management studies.

<u>Name of the faculty</u>	<u>Subjects taught and course</u>
1. Mr, Satish Hegde	'Business policy and Administration - M.Com Part-I
2. Mr. Satish Kumar	'Materials Management M.Com Part-I.

4.2 Department of Management Studies.

i) Teaching Staff

1. Dr. S.N.Maheshwari M.Com, Ph.D. Officiating as Head of the Department. (from 18/7/88 to 18/10/98)
2. Mr. Satish Ganapati Hegde B.Com, MBA Lecturer in Management Studies.
3. Mr. Satish Kumar MBA (Ph.D. Submitted) Lecturer in Management Studies.

ii) Contributory Faculty

1. Prof. E.M.Travassos, Smt.P.Chowgule College of Arts and Science, Margao,Goa, delivered 20 lectures for II semester MMS.
2. Mr. V.S.Hede, Chief Development Officer, Economics Development Corporation of Goa, Daman and Diu Ltd. delivered 30 lectures for II semester MMS.
3. Prof. J.P.Pathak, Government Polytechnic College delivered 22 lectures for I semester.
4. Prof. Menezes, Dhempe College of Arts & Science delivered 15 lectures for I semester MMS.

iii) Visiting Faculty

1. Dr, K.N.Lawande, Group Vice-President (Personnel), CMM Group Companies, delivered 5 lectures on HRD and perspective Management.
2. Dr. Sharma from NCERT delivered 2 lectures on Industrial Psychology.
3. Dr. T.S.Reddy, Prof., S.K.University delivered 2 lectures on Project Selection and Report writing.
4. Dr. G.C.Maheshwari, Prof. Baroda University delivered 2 lectures on Human Resource Accounting and communication Management.
5. Mr. Iyengar, Senior Purchase Manager, BHEL, Hyderabad delivered 2 lectures Production Management.

iv) Publications

Mr. Satish Kumar

'Role of Taxation in Exports in MDU Journal of Management Studies, Vol 3, 1988.

v) Participation in Seminar, Conference, Workshops, Training Programmes etc.

<u>Name of the Participant</u>	<u>Seminar, Conference or Workshops</u>
1. Mr.Satish Ganapati Hegde.	Orientation course organised by the Academic Staff College, Goa University from 4/8/88 to 31/8/88
2. Mr.Satish Kumar	<ol style="list-style-type: none">1. Conference on 'Management Education and Industry. An Interface held by MD University at Delhi on Nov.4, 19882. 'All India Seminar on Development in Commerce Education' held by MD University at Rohtak on 20 Aug, 1988.

vi) Research Projects Undertaken

<u>Name of Researchers</u>	<u>Research Project.</u>
1. Mr.Satish Ganapati Hegde	Customer attitude survey for State Bank of India, Goa, started in June, '89.
2. Mr. Satish Kumar	Completed research titled 'A study of Role stress, Role satisfácation and Role Efficac among Public Sector Executive towards Ph.D work.

vii) Guest Lectures delivered

<u>Name of the Faculty</u>	<u>Lecture Delivered.</u>
1. Mr.Satish Kumar	Taught 'Materials Management' in the Department of Commerce Goa University for M.Com Part I.
2. Mr.Satish Ganapati Hegde	Taught 'Business Policy and Administration' for M.Com Part I.

viii) Lectures delivered on subjects taught by the Faculty of Department of Commerce.

<u>Name of Faculty</u>	<u>Lecturers delivered/subject taught.</u>
1. Mr. B.Ramesh	1. Taught 'Financial Accounting' for I Semester MMS. 2. Taught 'Management Accounting' for II semester MMS. 3. Taught 'Perspective Management' for II semester MMS. 4. Taught partially 'Cost Accounting' for I semester MMS.
2. Dr. P.N.Reddy	1. Taught 'Indian Economy' for I semester MMS.
3. Mr.Nandkumar M.	1. Taught 'Business Law' I semester MMS. 2. Taught 'Business Finance' for II semester MMS.
4. Dr. S.N.Maheshwari	1. Taught partially 'Cost Accounting' for I semester MMS.

5.1 Centre for Latin American Studies

i) Teaching Staff

- 1) Abdul Nafey Reader & Head of the Department
M.A., Ph.D.
- 2) Archana Kakodkar Documentation Officer
B.Sc., M.A., M.Lib.Sc.

ii) Teaching Programme

The Centre offers as many as eight elective courses to the post-graduate students of History, Political Science, Economics and Sociology. These courses are: General History of Latin America; History of Mexico since 1876; Government and Politics in Latin America; Foreign Policies of major Latin American Countries; Survey of Latin American; and Society in Peru.

iii) Contributory Teachers:

Until December 1988, courses on Latin America were conducted by the Department of History and Department of Political Science, Goa University.

iv) Participation in Seminars, Conferences, Workshops etc.

- 1) Dr. Abdul Nafey participated and presented papers in the following international and national seminars.
 - i) "Ethnicity and Nation-Building": The Role of Indo-Guyanese" paper presented in the International Conference on Genesis of a Nation organised by the University of Guyana and Guyana Commemoration Commission, Government of Guyana, Georgetown, Guyana between 5-7 May 1988.
 - ii) Selected Fellow by the Salzburg seminar for the session on Human Rights Across Cultures and Political Systems held in Salzburg, Austria between 21 May-3 June 1989.
 - iii) "US Policy Towards Central America", and "Ethnicity and Politics in the Caribbean". Papers presented in the Seminar on Contemporary Latin America organised the Northern Regional Centre, Indian Council of Social Science Research (ICSSR) New Delhi in March 1988.

iv) "Democratization Process in Mexico". Paper presented at the seminar on Democratization Process in Latin America organised by the Centre for Latin American Studies, Goa University Goa in April 1989.

(2) Smt. Archana Kakodkar participated and presented papers in the following seminars:

(i) "Library Research on Latin America" Paper presented at the Seminar on "Democratization Process in Latin America" organised by the Centre for Latin American Studies, Goa University, Goa in April, 1989.

(ii) "Portuguese Rule and the Devdasi System" Paper presented at the Local History Seminar, Goa University, 1989.

(iii) "Promote Books Through Users Education". Paper presented at the National Book Week organised by the Goa University, 1989.

(iv) Delegate to the Orientation Course for Science Councillors organised by Indira Gandhi National Open University, Hyderabad between 13-14 July, 1989.

(v) Visitors to the Centre.

Following scholars and specialists visited the Centre for lectures, consultations, seminars etc;

i) Prof.R.Narayanan, Head of the Latin American Studies School of International Studies (SIS), Jawaharlal Nehru University (JNU) New Delhi.

ii) Shri Daulatsinhji P. Jadeja, Member of Lok Sabha. President, Indian Society for Latin America, New Delhi.

iii) Prof, Anirudha Gupta, Professor and formerly Dean, SIS, JNU.

iv) Prof. Jose Leal Ferreira, Brazilian Studies Chair, SIS, JNU.

v) Dr. P.P.Shirodkar, Director, Goa Archives, Archaeology and Museum, Panjim.

vi) Shri Girish Dhume, IFS, Joint Secretary (LAC), Ministry of External Affairs, New Delhi.

- vii) Dr. T.R.D'souza, Director, Xavier Centre for Historical Research, Porvorim, Goa.
- viii) Prof. K.Seshadri, Professor (Retd.) Centre for Political Studies, JNU.
- ix) Dr.(Mrs.) Vishnu Priya, Reader in Political Science, Maitreyi College, University of Delhi, New Delhi.
- x) Dr. R.L.Chawla, Reader in Economics, PGDAV College, University of Delhi, New Delhi.
- xi) Dr. Irene Wheritt, Associate Professor of Spanish and Portuguese, Latin American Studies Programme, University of Iowa, Iowa, United States.

vi) Publications.

1. Abdul Nafey "Tercermundismo" in D.P. Jadeja, ed., India and Latin America: Partners in Progress. (New Delhi: Trans-Asia, 1988)pp. 73-110.
2. Abdul Nafey, "US Policy towards Nicaragua", World Focus (New Delhi), Vol. 9, No.2, February 1988.
3. Archana Kakodkar, "Gomantak Maratha Samaj: Bharatatil Ek Agresar Samaj" in Diamond Jubilee Celebration Souvenir of GMS, 1989.
4. Archana Kakodkar, "Latin American Source Material in the Libraries of Goa" in T.R.D'Souza, ed., Essays on Goan History (New Delhi: Concept, 1989)
5. Archana Kakodkar "Index" of Goa Cultural Trends (Goa: Directorate of Archives, Archaeology and Museum, 1988)

Publications:

- i. Proceedings of the Seminar on Democratization Process in Latin America (Mimeographed) Centres for Latin American Studies Goa University, 1989.
- i) Dr. Abdul Nafey visited Trinidad and Tobago, Guyana, and Surinam in May, 1988.
- ii) Dr. Abdul Nafey was invited to participate in the seminar on Human Rights Across Cultures and Political System in Salzburg, Austria during May-June 1989.

3. Workshops:

1. A workshop was organised by the Centre on 26th October 1988 to determine the plan of action for the centre. The plan was presented in the workshop by the Teacher Incharge. The workshop was chaired by the Vice Chancellor, Goa University, and was attended by 2 outstation experts on Women's Studies and about 10 local prominent women activists and administrators.
2. A workshop for local leaders of active rural Women's Voluntary Organisations and women activists was organised by the Centre on 31st March, 1989. The main objective of the workshop was to know about the various activities undertaken by the organisations and activists and to provide them information regarding the new activities which they could undertake. The one day workshop was attended by about 50 leaders of Women's Voluntary Organisations and activists.

Five persons from various Government Departments and University Departments participated in the workshop as resource person.

4. Research Projects:

The Centre for Women's Studies has initiated the following two short-term research projects.

1. A research project on "Law and Women in Goa" is being undertaken by the Centre with a view of studying the impact of the prevailing Portuguese Personal Law on Women in Goa.
2. A research project on "Work participation of Rural Women in Goa" has been started by the Centre in order to study the nature and types of activities undertaken by rural women in Goa.

CHAPTER - III

AFFILIATED COLLEGES AND INSTITUTIONS
RECOGNISED BY THE UNIVERSITY

As stated earlier, the Goa University became fully operative w.e.f. June, 1986, when the Goa University Act 1984 became operative in this State in its entirety.

As on March 31st, 1989 there were 24 affiliated colleges and 5 institutions recognised by the University. A list of these colleges and institutions as on 31-3-89 is appended as Annexure VII.

A brief report on the activities of various institutions is given in this chapter.

A. Colleges Other than Professional

A-1 Dhempe College of Arts & Science

The College was established in June, 1962 and was permanently affiliated to the Goa University from 19-6-86 in approved subjects leading to B.A. & B.Sc. degrees. There is also a Higher Secondary Section attached to the College.

The College is run by the Dempo Charities Trust in a vast three storied building having 15 lecture rooms, besides ample space to enable the college conduct its curricular and extra-curricular activities.

Hostel facilities are also provided by the College separately for boys and girls. During the year under report, the number of male hostalities was 64 and female 59. Other details are as follows :

Details of Teaching Staff

I. Principal

Shri G.V. Nadkarni

II. Departmentwise Teaching strength

<u>Department</u>	<u>Designation</u>	<u>Number of teachers</u>
(A) <u>Science stream</u>		
i) Mathematics	Lecturers	4
ii) Chemistry	Lecturers	10
iii) Physics	Demonstrators	2
	Lecturers	7
iv) Botany	Lecturers	7
v) Zoology	Lecturers	7
vi) Geology	Lecturers	5
(B) <u>Arts Stream</u>		
i) English	Lecturers	7
ii) Economics	Lecturers	2
iii) Political Science	Lecturers	1
iv) History	Lecturers	2
v) Philosophy	Philosophy	3
vi) Marathi	Lecturers	3
vii) Hindi	Lecturer	1
ix) French	Lecturer	1
x) Physical Education Director		1

III. Non-Teaching Staff

i) Librarian	-	1
ii) Superintendent	-	1
iii) Senior Stenographer	-	1
iv) Accountant	-	11
v) Senior Clerk	-	2
vi) Laboratory Asstt.	-	4
vii) Junior Clerk	-	6
viii) Library Asstt.	-	1
ix) Class IV Staff	-	35

iv) Enrolment and result

Course	Total enrolment			Percentage result	
	Boys	Girls	Total	Final Year	
				Mar/Apr '88	Oct/Nov '88
F.Y. Arts	51	146	197		
S.Y. Arts	47	92	139		
T.Y. Arts	48	113	161	77%	22%
F.Y. Science	78	72	150		
S.Y. Science	98	73	171		
T.Y. Science	89	97	186	74%	67%

V) Extra Curricular Activities

a) Sports

- i) The men's Table-Tennis team won the Goa University Inter-Collegiate Table-Tennis title.
- ii) The men's basket-ball team won the Goa University Inter-Collegiate basket-ball title.
- iii) Women secured second place in cricket in the Goa University intercollegiate Tournament.

b) N.C.C.

Unit

No. of students enrolled

1988-89

Navy 50

Army 80

N.C.C. (Girls)

Navy 20

N.S.S.

- i) On Gandhi Jayanthi day the volunteers took up the cleaning works around slum areas near Tonca Municipal Quarters.
- ii) Volunteers undertook the work of Immunisation and Family Planning Survey in three slum areas.
- iii) Volunteers helped the patients of Goa Medical College in filling up the forms ,maintaining order and directing them to the various departments.
- iv) Volunteers helped the staff of Central Library in arranging cleaning,labelling the books.
- v) Volunteers undertook to repair a 30-metre long bund with the assistance from Agricultural Department.

Library : (Position as on March 1989)

- i) Total Number of books - 1,29,024.

A-2 Smt. Parvatibai Chowgule Cultural Foundation's College
of Arts & Science, Margao - Goa.

Established in June 1962 the College caters to instruction in approved subjects leading to B.A. and B.Sc. In addition, Higher Secondary classes are also run by the College.

The College is managed by the Chowgule Education Society and functions in its own building consisting of four independent blocks each with a hall and two bed rooms. Plus one block for Rector. The College playground has facilities for all major games like cricket, volley-ball, basket-ball, tennis, athletics, etc.

Hostel facilities are provided only for boys.

Details of Teaching staff

Principal Shri V.R. Shirgurkar, who is also a lecturer in Economics .

Department Teaching strength

<u>Department</u>	<u>Designation</u>	<u>Number of teachers</u>
<u>A-Science stream</u>		
i) Physics	Lecturers	6
	Deminstrators	2
ii) Chemistry	Lecturers	11
iii) Botany	Lecturer	5
iv) Zoology	Lecturer	5
v) Mathematics	Lecturer	4
vi) Geology	Lecturer	3
<u>B - Arts stream</u>		
i) English	Lecturer	5
ii) Economics	Lecturers	4
iii) Geography	Lecturers	3
iv) Political Sc.	Lecturer	1
v) History	Lecturer	2
vi) Logic	Lecturer	2
vii) Philosophy	Lecturer	3
viii) French	Lecturer	1
ix) Sanskrit	Lecturer	1
	Sociology	
x) Marathi	Lecturer	1
xi) Hindi	Lecturer	2
xii) Computer Sc.	Lecturer	2

Non-Teaching staff

i) Superintendent	1
ii) Head Clerk	1
iii) Junior Stenographer	1
iv) Senior Clerks	1
v) Asstt. Clerks	1
vi) Junior Clerks	2
vii) Laboratory Asstt.	5
viii) Clerk Typists	2
ix) Librarian	1
x) Laboratory Attendants	14
xi) Class IV staff	20

Extra Curricular activities

- a) Sports
- i) The girls team won the title in Volley-ball in inter-collegiate competition.
 - ii) Belmino Andre represented Goa University in football which won the All India University Football Tournament.
- b) N.C.C.
- i) 4 cadets of Infantry wing attended Army Attachment Camp held at Hyderabad in July, 1988.
 - ii) 2 cadets of Infantry wing attended Pre-Pre R D Camp at Belgaum in July 1988.
 - iii) 7 cadets went on Cycle Expedition from Margao to Poona in December '88; this was sponsored by Lions Club of Margao.
 - iv) 2 cadets of Girls wing attended All India Bk. Camp at Trivendrum.
- c) N.S.S.
- i) N.S.S. students attended Orientation programme in afforestation a part of the quami ekta week N.S.S. Unit celebrated
1. Cultural day 2. Women's day and

- ii) The N.S.S. Camp was held at Pale in which students covered the entire area of reject damp sites with trees under Western Ghat Scheme. They undertook Socio-Economic Survey of People at Pale Village.

Enrolment and Results

<u>Course</u>	<u>Total Enrolment</u>			<u>Percentage Results of</u> <u>Final Year</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>March '88</u>	<u>Oct. 88</u>	<u>March '89</u>
F.Y. Arts	53	91	144			
S.Y. Arts	55	98	153			
T.Y. Arts	52	80	132	77.95%	37.43%	60.66%
F.Y. Science	71	64	135			
S.Y. Science	65	74	139			
T.Y. Science	86	67	153	60.05%	37.78%	89.47%

A-3 St. Xavier's College , Mapusa , Goa.

This is a Diocesan College, which was established in June, 1963 by the Archdiocese of Goa, It caters to instruction in the approved subjects leading to B.A. and B.Sc. In addition there is a Higher Secondary Section attached to the College.

Till May, 1968 the college was housed in the High School building located at Bastora, after which it was shifted to its own premises in the new spacious campus at Mapusa. These premises consists of three blocks , one each for Science, Arts and Administrative cum teaching activities. There are 18 classrooms besides other spacious rooms wherein various curricular and extra-curricular activities are being conducted. The College has its own playground occupying an area of 12,000 sq.mts. Facilities for various types of games are being provided by the College. There is also a hostel for boys near the college and a hostel for girls, which is located at Corlim, Mapusa. At present, 23 students are provided with hostel accommodation.

Details of Teaching staff

Principal : Rev. Fr. Nicolau G. Pereira who is also lecturer in Chemistry.

<u>Department</u>	<u>Designation</u>	<u>No. of teachers</u>
	<u>A-Science Faculty</u>	
i) Chemistry	Lecturers	7
ii) Physics	Lecturers	5
iii) Life Science	Lecturers	2
iv) Microbiology	Lecturers	3
v) Mathematics	Lecturers	4
vi) Bio-chemistry	Lecturers	1
	<u>B- Arts Faculty</u>	
i) Economics	Lecturers	2
ii) Commerce	Lecturers	1
iii) History	Lecturers	1
iv) Philosophy	Lecturers	3
v) Psychology	Lecturers	2
vi) English	Lecturers	2
vii) Hindi	Lecturers	2
viii) Marathi	Lecturers	1
ix) French	Lecturer	1 (Part-time)

i) N.S.S.	Incharge	1
ii) Sports	Director	1
iii) Physical Education	Director	1

Non-Teaching staff

i) Superintendent	-	1
ii) Head Clerk	-	2
iii) Clerks	-	4
iv) Librarian	-	1
v) Store Keeper	-	1
vi) Class IV staff	-	12

Enrolment and Results

<u>Course</u>	<u>Total Enrolments</u>			<u>Percentage results of Final Year March/April '89.</u>
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	
F.Y. Arts	43	117	160	
S.Y. Arts	80	128	208	
T.Y. Arts	55	117	172	83%
F.Y. Science	45	34	79	
S.Y. Science	35	42	77	
T.Y. Science	62	53	115	78%

Kumari Carmelito Souza stood first in the B.A. Examination conducted by Goa University.

Faculty Improvement Programme

A three day programme on Autonomous Colleges was conducted by Dr. M.A. Thangaraj. It was held in St. Xavier's College on the 27th, 28th February and March 1, 1989. About 50 teachers participated.

Library :

- i) Books 27,655
- ii) Academic journals - 48

Extra Curricular activities

During the year the College conducted various extra-curricular activities under the aegis of N.C.C., N.S.S. and Co-curricular activities under the auspices of various college Associations. The performance of the students has always been good. They have been winners of Championships and Prizes in various competitions.

A-4 Dempo Charities Trusts' Srinivassa Sinai Dempo College of Commerce & Economics Altinho, Panaji-Goa.

This College was established in June, 1966 and is run by the Dempo Charities Trust catering instructions in the approved subjects leading to B.Com. degree. The institution is located at Altinho, Panaji, and functions in a rented building belonging to Govt. of Goa. There is also a Higher Secondary Section attached to the College.

Besides 8 classrooms, the college provides few other amenities like the Principal's room, college office, library, reading room, etc. In the extra-curricular field, the college provides facilities for indoor games like table-tennis, badminton, carrom, chess and outdoor games like volley-ball, football, basket-ball, cricket, hockey and athletics for which Panaji Gymkhana ground and the Govt. Ground at Campal are being made use of.

Details of Teaching staff

Principal : Shri D.S. Bhende who is also a lecturer in English.

Departmentwise Teaching strength

<u>Department</u>	<u>Designation</u>	<u>Number of teachers</u>
i) English	Lecturer	2
ii) Economics	Lecturer	3
iii) Geography	Lecturer	1
iv) Commerce	Lecturer	2
v) Maths, Statistics	Lecturer	1
vi) F.C.S. Indl. Psychology	Lecturer	1
vii) Accountancy	Lecturers	4
viii) Business Law	Lecturer	1
ix) Physical Education	Lecturer	1
x) Business Law	Lecturer	1 (temporary)

Details of Non-Teaching staff

i) Librarian	-	1
ii) Superintendent	-	1
iii) Head Clerk	-	1
iv) Senior Clerk	-	1
v) Junior Clerk	-	3
vi) Steno-typist	-	1
vii) Class IV staff	-	6

Enrolment and results

<u>Course</u>	<u>Total enrolment</u>			<u>Percentage results of</u> <u>Final Year</u>	
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>March 1988</u>	<u>Oct./Nov'88</u>
F.Y.B.Com.	177	141	318		
S.Y.B.Com.	106	119	225		
T.Y.B.Com.	119	95	214	48.06	48.00

Debating and Literary Activities

- i) A First Year student won the third prize at the All Goa Inter Collegiate Elocution Competition, organised by National Savings Organisation on 21st October, 1988.
- ii) Late Dr. Y.V. Lawande & Late Shri V.S. Bharne Memorial Inter Collegiate Elocution Competition was held on 17-1-1989, Carmel College, Nuvem won the Dr. Y.V. Lawande rolling shield for the team and Kum. Sujata Peres D'Silva of the same College won the Shri V.S. Bharne rolling shield for the individual best speaker.

Extra-Curricular Activities

a) Sports :

- i) One of the student secured first place in weight lifting and power lifting and another secured first place in power lifting and the third was declared 'Goa-shree' in Best Physique.
- ii) Players from the college were selected to represent Goa in the Senior Badminton Nationals and Goa in Senior Hockey Nationals.

b) N.C.C.

- i) On completion of the N.C.C. Enrolment the N.C.C. Parades were started in the first week of July, 1988.
- ii) The cadets donated blood.
- iii) The Annual training camp was held at 3 MTR Navelim and 22 cadets attended the camp.
- iv) N.C.C. bagged the 1st place at Republic Day at New Delhi,
- v) During the course of the year the cadets were given extensive training in footdrill, weapon training, juding Distance, Map reading, first aid, self defence, etc

vi) Range classification (firing) was conducted at 3 MTR Navelim Range.

vii) In the B & C Certificate Examination held in the last week of February, 1989, 9 cadets from the institution appeared for it. The best cadet award was awarded to C.S.U.O. Ramesh Ratihalli for the year 1988-89.

c) N.S.S.

i) Tree plantation (as a part of vanmohot seva) at Goa University Campus, T.V. Centre, Microwave Centre, Govt. Polytechnic, mercas and other places.

ii) Blood donation Drive - More than 50 volunteers, and other students of the college donated blood.

iii) 70 students participated in the 2 days cycle Rally from Panaji, to Ponda, Bicholim, Mapusa and back as part of National Integration.

iv) Road construction and city cleanliness work at different parts of Goa.

A-5 Carmel College of Arts & Science for Women, Nuvem, Goa.

The College was established in the year 1964 to cater to instruction in the approved subjects leading to B.A., B.Sc. and Commerce degrees.

Run by the Apostolic Carmel Education Society, the institution is exclusively meant for women. It has its own building having 12 lecture and 8 tutorial rooms, besides other space to carry out its administrative, curricular and extra-curricular activities. There is also a playground with facilities for sports like athletics, basketball, volleyball, tennis, table-tennis, etc. No hostel facilities are provided by the institution.

Details of Teaching staff

Principal : Sr. M. Jacinthe, A.C. who is also a lecturer in arts faculty.

Total teaching strength :- 32

a) Designationwise :-

i) In Science stream

Sr. Lecturers - 2

Lecturers - 15

ii) In Arts Stream

Principal - 1

Vice-Principal - 1

Lecturers - 12

iii) In Commerce stream

Lecturers - 3

b) Statuswise

<u>Status</u>	<u>Full-time</u>	<u>Part-time</u>
Permanent	20	-
Probationary	-	-
Temporary	12	-

Details of Non-Teaching staff

i) Head Clerk - 1
ii) Librarian - 1
iii) Accountant - 1
iv) Lab. Attendant - 3
v) Lower Div. Clerk - 1
vi) Class IV staff - 8
vii) Lib. Asstt. - 1
viii) Lib. Attndt. - 1

Enrolment and Results

Branch of study	Total enrolment	percentage results of final year.		
		Apr. May '88	Oct. '88	Apr. May '89
F.Y.B.A.	107			
S.Y. B.A.	87			
T.Y. B.A.	72	91.90%	80.00%	89.70%
F.Y.B.Sc.	44			
S.Y. B.Sc.	28			
T.Y. B.Sc.	34	92.50%	69.60%	72.78%
F.Y.B.Com.	58			
S.Y.B.Com.	53			
T.Y..B.Com.	-			

Extra Curricular Activities

a) Sports :

Various facilities were provided for students, to better in the field of sports. The students participated in the field of sports, The students participated in games like Basketball, Volley-ball, Badminton, Table-Tennis, Tennis, Hockey, Athletics, etc.

b) Debates:

Debates were held at collegiate and Inter-collegiate level. Students of the college did well and were awarded various prizes.

c) Cultural Activities :

These activities were held in the college on various functions. Students are encouraged to participate in these activities as they help to bring out the acting potential in them.

d) N.C.C. :

Regular parades were twice a week. Students actively and keenly participated in various activities and camp held. The cadets participated in the camp held annually.

e) N.S.S. : The volunteers, under the guidance of the N.S.S.

officer in charge undertook various duties like giving tuitions to the poor children of the village school, visited the homes of the aged in the neighbouring villages, worked on the college campus, etc. Last year, the N.S.S. campus was conducted at Kalay, Goa a backward area.

f) Library : (Position as on 20/4/89)

A-6 Murgaoon Education Society's College of Arts & Commerce
Zuarinagar - Goa.

The College established in June, 1972 is run by the Murgaoon Education Society and caters to instruction in the approved subjects leading to B.A. and B.Com. degrees. It has also a Higher Secondary Section attached to the College.

The Society runs the institution in its own two-storeyed building which has eleven lecture rooms and other requirements needed for its administrative, curricular and extra-curricular activities.

There is also a playground located in the College campus where facilities are provided for indoor and outdoor games. The College has however, no hostel facilities.

Details of Teaching Staff :-

Principal : Shri Madhav S. Kamat who is a Lecturer in Economics.

Departmentwise Teaching staff

<u>Department</u>	<u>Designation</u>	<u>No. of teachers</u>
i) Economics	Lecturers	3
ii) English	"	1
iii) Hindi/Marathi	"	1
iv) Maths/Statistics	"	1
v) Psychology/Phil	"	2
vi) Political Science	"	2
vii) Geography	"	1
viii)Accounts	"	3
ix) Business Management	"	2
x) Sociology	"	1
xi) Law	"	1
xii)Physical Education	"	1
xiii)Political Sc. & Socio-logy	"	1

Details of non-teaching staff

i) Superintendent	-	1
ii) Librarian	-	1
iii) Dy. Accountant/Head Clerk	-	1
iv) Steno, Typist	-	1
v) L.D.C.	-	2
vi) Class IV Staff	-	6

Enrolment and Results

<u>Course</u>	<u>Total enrolment</u>		<u>Percentage results of Final year</u>	
	<u>Boys</u>	<u>Girls</u>	<u>March '88</u>	<u>March '89</u>
F.Y.B.A.	38	74		
S.Y. B.A.	27	49		
T.Y.B.A.	30	53	62.00	61.00
F.Y.B.Com.	88	67		
S.Y.B.Com.	74	76		
T.Y.B.Com.	101	98	69.00	60.00

Extra-Curricular activities

a) Sports

- i) During the year many students won Gold Medals at the University Sports meet.
- ii) Shri Joseph Godinho a College student was nominated by Bombay University on the University Students Council to represent sportsmen of the entire University.
- iii) Two students were selected for the Goa University football team that won All-India Championship.

b) N.S.S.

- i) The N.S.S. unit successfully conducted 3 days state level seminar on "Youth for preparing India for 21st Century".
- ii) Achieved 100 percent survival of tree plantation in the College Campus at Dabolim.
- iii) Won twice prizes for collecting largest funds for Goa Cancer Society.

c) N.C.C.

- i) Participated in the Republic Day Parade at Delhi.
- ii) Selected for admissions to N.O.A. Khadakvasla.
- iii) Participated in the world sailing tour.

Library (Position as on 20-4-88)

Text Books	-	8340
Reference Books	-	359
Periodicals	-	47
Academic Journals	-	25

A-7 Vidya Vikas Mandal's College of Commerce & Economics,
Marqao - Goa.

The College established in June, 1973 is run by the Vidya Vikas Mandal to cater to instruction in approved subjects leading to B.Com. Degree.

It functions in a tow-storeyed building 3 class rooms, the college and Principal offices one teacher common room and a Library Reading room.

Although ,the college provides facilities for sports like Football, Volley-ball, table tennis, etc. in the absence of its own playground, arrangements are made with the local schools/associations to use their playground for outdoor games. No hostel facilities are provided by the colleges.

Details of Teaching staff :

Principal : Shri D.V. Borkar, He is also the Head of Commerce Department.

<u>Departmentwise Teaching Strength</u>		<u>No. of teachers</u>
Principal		1
i) Commerce	Lecturer	3
ii) Management	Lecturer	1
iii) Economics	Lecturer	4
iv) Mathematics & Statistics	Lecturer	2
v) Accounts		5
vi) Geography	Lecturer	1
vii) Business Law	Lecturer	2
viii) English	Lecturer	2

Details of Non-teaching staff

i) Office superintendent	-	1
ii) Librarian	-	1
iii) Jr. Steno	-	1
iv) Library Asstt.	-	1
v) Clerk	-	3
vi) Class IV staff	-	7

Enrolment and results

<u>Course</u>	<u>No. of students admitted</u>		<u>Percentage results</u>	
	<u>Girls</u>	<u>Boys</u>	<u>Oct. 1988</u>	<u>Apr. 1989</u>
F.Y.B.Com.	255	167		
S.Y.B.Com.	235	201		
T.Y.B.Com.	239	223	47.55%	52.25%

Extra-curricular activities

- a) N.C.C.: The strength of the cadets enrolled was 50 apart from the usual training the cadets participated in the Blood donation. 15 cadets donated blood. They planted 200 saplings including the pit wordone at Goa University campus.
- b) Sports : During the course of the year sportsmen and sports-women brought record. Number of titles namely Badminton (men), Football (men), Atheletics (women), Tennikot (women), Kabaddi (men), Individual championship : Atheletics - Bharati Bandodkar Judo.

c) Cultural Activities :

- i) The college team won the second place for western group songs at the Inter University youth festival.
- ii) the students won prizes for Best acting and Best direction in marathi, English held by the Kala Academy.
- iii) the team won Best team prize in the National youth week elocution competition,

N.S.S. :

- i) A funds project for Matruchhaya orphanage was launched alongwith the city cleaning programme with the help of Margao Municipal Council.
- ii) Blood donation work at Health centres was undertaken.
- iii) Special camp at Loliem, Canacona was conducted.

A- 8 Dnyanprasarak Mandal's V.N.S. Bandekar College of
Commerce, Assagao - Goa.

The College was established in June 1974 to cater to instruction in the approved subjects leading to B.Com. degree. The institution also has a Higher Secondary Section attached to it.

The College is run by the Dnyanprasarak Mandal in its own two-storeyed building with 13 lecture rooms and two tutorial rooms. Sufficient space is also provided for its **other** curricular, extra-curricular and administrative activities.

The College has its own playground within the College campus. There are no hostel facilities provided by the College.

Details of Teaching Staff

Principal Shri Gopal Govind Mayekar is also the Lecturer of Marathi.

Departmentwise Teaching strength

<u>Department</u>	<u>Designation</u>	<u>No. of teacher</u>
i) Marathi	Principal	1
ii) Economics	Vice-Principal	3
iii) Statistics	Lecturer	1
iv) Commerce	Lecturer	5
v) English	Lecturer	2
vi) History	Lecturer	1
vii) Geography	Lecturer	1
viii) Mathematics	Lecturer	1
ix) Accountancy	Lecturer	4
x) B.Law	Lecturer	1
xi) Computer System	"	1

Details of non-teaching staff :

i) Librarian	-	1
ii) Off. Superintendent	-	1
iii) Head Clerk	-	1
iv) Sr. Clerk	-	2
v) Jr. Clerk	-	3
vi) Library attendant	-	3
vii) Class IV at 55	-	-

Enrolment and Results

<u>Class</u>	<u>Total Enrolment</u>		<u>Percentage of results</u>		
	Boys	<u>Girls</u>	<u>Mar/April</u> <u>1988</u>	<u>Oct.Nov.</u> <u>1988</u>	<u>Mar/Apr</u> <u>1989</u>
1st Year Commerce	297	158			
2nd Year Commerce	278	167			
3rd Year Commerce	200	107	40.90	50.40	55.90

Library (Position as on 31-3-88)

Books	-	6511
Academic journals	-	29
Non-Academic journals	-	5
Others	-	12

Extra-curricular activities

a) Sports:

- i) Kabaddi team secured runners-up position at the inter-collegiate Kabaddi (Men) Tournament.
- ii) Ladies team secured the runner-up position at the inter-collegiate Badminton tournament.
- iii) Won Kho-kho (men) Championship of Goa University.
- iv) Secured runners-up position at the Inter-Collegiate Football Tournament.
- v) The boys team won Gold Medals in 4 x 100 and 4 x 400 mts. relay and girls team won bronze medal in 4 x100 mts. relay.

N.C.C.

- i) 43 cadets attended the Annual Training Camp at Navelim.
- ii) Some cadets donated blood.
- iii) Captain Edward D'Dima was the Parade Commander at the 40th N.C.C. Day celebrations held at Campal.
- iv) The students organised a hike to Dudhsagar waterfalls and trek to Vageree hills.

A-9 Goa Vidyaprasarak Mandal's College of Commerce and Economics , Ponda - Goa.

The College was established in January, 1986 to cater to instruction in the approved subjects leading to B.Com . degree. The institution is run by the Goa Vidyaprasarak Mandal in its own building having nine classrooms and other space to enable it to carry out its various curricular and extra-curricular activities.

The College provides facilities for various sports activities and has a playground which is located in the College campus. Games like Badminton, Basketball, Volleyball, Cricket, Football, etc. are being conducted by the College. There are no hostel facilities provided by the College.

Details of Teaching staff

Principal : Shri Ashok G. Jumde, who is also a Lecturer of Mathematics.

Departmentwise staff position

i) Mathematics	Principal	1
ii) Economics	Lecturers	2
iii) English	Lecturers	2
iv) Geography	Lecturers	1
v) Accountancy	Lecturers	4
vi) Commerce	Lecturer	1

Details of Non-Teaching staff

i) Librarian	-	1
ii) Head Clerk	-	1
iii) Sr.Clerk	-	1
iv) Jr.Clerk/Typist	-	2
v) Class IV staff	-	5

Library :-

Text books	-	771
Reference books	-	1657
Periodicals	-	12
Academic Journals	-	13

Enrolment

<u>Class</u>	<u>Total Enrolment</u>	
	<u>Boys</u>	<u>Girls</u>
I Year B.Com.	156	085
II Year B.Com.	146	075
III Year B.Com.	124	086

Extra-curricular activities

a) Sports :

- i) The College team won Runner's up trophy in Kho-kho.
- ii) One student won two Bronze medals in long-jump and Tripple jump in Inter- collegiate Athletic meet.
- iii) One student was selected to represent Goa University in Inter-University Cricket tournament.

b) N.C.C.

- i) Some of the students attended N.C.C. parades at the open Unit at Smt. Parvatibai Chowgule College .

c) N.S.S.

Total enrolment : 100 volunteers for regular activities and 70 students for Special Camping activities.

- i) Most of the students participated in Blood Donation Camp.
- ii) The volunteers participated in the National Integration Camp.
- iii) The students presented a Skit on Drug Abuse for the irradiation of Drug Addiction.
- iv) Fund collection was undertaken for the Earthquake affected people of Bihar.
- v) The volunteers participated in Debate & Discussion Programme on 'Adult Education' organised by Maharashtra Parichaya Kendra.

d) Cultural Activities

- i) Individual singing competition, Elocution Competition Poetry Competition, Essay Competition, etc. were conducted during 1988-89.
- ii) The students won the winners Rolling Trophy in Gazal Singing Competition at PANORAM - 89.

A-10 Ponda Education Society's College of Arts & Science,
Ponda - Goa.

Established in June, 1986, the college is run by the Ponda Education Society in a two storied rented building having 8 lecture rooms and 2 historical rooms. Although the Ponda Municipal ground is being used for outdoor games. The College has its own playground in the Campus.

No Hostel facilities are provided by the College.

Details of Teaching staff :

Principal :- Dr. A.K. Heblikar who is also a lecturer in Physics.

Departmentwise Teaching staff

<u>Department</u>	<u>Designation</u>	<u>No. of teachers</u>
<u>A- Science stream</u>		
i) Physics	Lecturers	4
ii) Chemistry	Lecturers	6
iii) Zoology	Lecturers	3
iv) Mathematics	Lecturers	2
<u>B-Arts Stream</u>		
i) English	Lecturer	1
ii) Economics	Lecturer	1
iii) Political Sc.	Lecturer	1
iv) Marathi	Lecturer	2
v) Hindi	Lecturer	2
vi) History	Lecturer	1
vii) Philosophy	Lecturer	2
viii) Psychology	Lecturer	1
ix) Gymkhana	Physical Director	1

Non-Teaching staff

i) Head Clerk	-	1
ii) Senior Clerk	-	1
iii) Junior Clerk	-	1
iv) Asstt. Librarian	-	3
v) Laboratory Asstt.	-	3
vi) Class IV staff	-	7

Enrolment

Course	<u>Total Enrolment</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
F.Y. Arts	53	71	124
S.Y. Arts	34	40	74
T.Y. Arts	30	43	73
F.Y. Science	31	22	53
S.Y. Science	29	21	50
T.Y. Science	31	15	46

Extra-curricular activities

- a) Sports:- i) Inter-class competitions were held for search of talent in different games.
ii) Many students participated in the inter-collegiate games.

Cultural activities

- i) Teachers day was celebrated with the Rangoli and Flower Arrangement Competition and Elocution Competition.
ii) The Hindi-Day was celebrated with a Kavi Sammelan.
iii) The Goa Liberation Day was celebrated with the Poets meet and the Singing and Dancing competitions.

N.S.S..

- i) Slum improvement at Ponda-Goa Education and Recreation of slum children.
ii) Cheering and helping the patients at I.D. Hospital.
iii) Coaching to economically backward students and recreation of Balwadi children at Bandora.
iv) Mass programme of Educational Literacy.
v) Fund raising for Lok-Vishwas Pratistan.
vi) 4 girls participated in Blood donation camp.
vii) Celebration of Quami Ekta week and National Youth week

Library :-

Text books	-	962
Reference books	-	699
Periodicals	-	10
Academic journals	-	18

A- 11 Naval Academy I.N.S. Mandovi. Verem - Goa.

The Naval Academy is a Defence Service Establishment administered by the Naval Head-quarters, New Delhi. The Academy started imparting training to the (10 + 2) 'X' cadets for B.Sc. (special) degree course commencing from August,1987.

The Naval Academy has exclusive buildings for conducting training classes and for accommodating cadets as well as teaching staff. The Academic Wing has a total of 16 classrooms. It houses the staff rooms, the laboratories, for Physics Training , Design Cell, Examination Cell , Draughtsman room.

A well stocked library with appropriate reference text books, Periodicals and journals is available for the use of the cadets.

A modern Health Club has been set up in the Gymnasium located inside the Academy Campus. Offices for teaching and non-teaching staff are located in the Academic Wing and Administrative Block respectively.

Departmentwise Teaching strength

<u>Department</u>	<u>Designation</u>	<u>No. of students</u>
i) Physics	Head of the Department	1
	Lecturers	5
	Demonstration	1
ii) Mathematics	Head of the Department	1
	Lecturers	3
iii) Chemistry	Head of the Department	1
iv) Meteorology & Oceanography	Head of the Department	1
v) English	Head of the Department	1
vii) Computer Sc.	Head of the Department	1

Non-teaching Staff

i) Laboratory Attendant	-	1
ii) Lab. Assistant	-	2
iii) Ship modelling Instructor	-	1
iv) Asstt. Librarian	-	1
v) Tracer	-	1
vi) U.D.C.	-	1
vii) Gest Operator	-	1

Teaching courses and students

The Academy conducts only 3 years B.Sc. (special) Degree course for the (10+2) 'X' cadets of the Indian Navy. The details of cadets admitted upto the academic year 1988-89 are as follows :

- | | | |
|------------------|-------------|--------------|
| (a) First batch | - 78 cadets | V semester |
| (b) Second batch | - 28 cadets | III semester |
| (c) Third batch | - 37 cadets | II semester |

Library : A well stocked library is available for use by the cadets. Each cadet is issued with a set of standard text books for study. Reference books are also available in the library for use by trainees. Popular periodicals and journals are made available in the library.

A-12 CuncoLim Education Society's College of Arts & Commerce
CuncoLim - Goa.

The College was established in August, 1987 to cater to instruction in the approved subjects leading to B.A. and B.Com. degrees. The institution is run by the CuncoLim Education Society in its own building having 12 classrooms. For extra-curricular activities the college provides facilities for various outdoor games, which are held on its own playground.

Details of Teaching Staff Departmentwise

Commerce	Lecturer	1
English	Lecturer	2
Economics & Hindi	Lecturer	1
Economics & Sociology	Lecturer	1

Details of Non-teaching staff

Librarian	-	1
L.D.C.	-	1
U.D.C.	-	1
Library Attendent	-	1
Class IV staff	-	3

Library

Text books	-	438
Reference books	-	159

Extra-curricular activities

Besides the Annual Social Gathering which enables the students to display and develop their talents in the various spheres. The Society celebrated its 25th Anniversary with different cultural programmes spread over one full week and which provided ample opportunities to the students to further develop their talents.

ii) College provides facilities for both Indoor and outdoor games, such as Table-Tennis, Football, Basket ball, Volley-ball cricket, Badminton, etc.

iii) College students participated on different occasions in debating and Elocution contests..

iv) College has a N.S.S. Unit which carries on the Normal N.S.S. Activities.

Enrolment of students

<u>Branch of study</u>	<u>No. of students admitted</u>	
	<u>Girls</u>	<u>Boys</u>
F.Y. B.A.	40	20
S.Y. B.A.	12	18
T.Y. B.A.	-	-
F.Y. B.Com.	51	86
S.Y. B.Com.	14	37
T.Y. B.Com.	-	-

A-13 Government College of Arts, Science & Commerce
Sanquelim - Goa.

The College was established in June 1988. The institution is run by the Government of Goa in the Govt. owned building having 8 lecture-cum tutorial rooms.

The College provides facilities for various sports activities and has a playground adjoining the college building.

There are no hostel facilities provided by the College.

Details of Teaching staff

Principal - Dr. B. A. Gomes who is also a lecturer in Economics.

i) Economics - Principal	-	1
ii) Lecturer	-	1
ii) Mathematics-Lecturer	-	1
iii) English -Lecturer	-	1
iv) Geography -Lecturer	-	1
v) Marathi Konkani -Lecturer	-	1
vi) Physics -Lecturer	-	1
vii) Chemistry -Lecturer	-	1
viii) Geology -Lecturer	-	1
ix) Botany -Lecturer	-	1

Details of Non-teaching staff

i) Librarian	-	1
ii) Accountant	-	1
iii) Head Clerk	-	1
iv) U.D.C.	-	1
v) U.D.C./Cashier	-	1
vi) Jr. Steno	-	1
vii) L.D.C.	-	1
viii) Store Keeper	-	1
ix) Laboratory Asstt.	-	1
x) Library Asstt.	-	1
xi) Class IV staff	-	8

Library (Position as on 20-4-89)

i) Text books	-	497
ii) Reference books	-	2111
iii) Periodicals	-	15

Enrolment

<u>Branch of study</u>	<u>Degree to be awarded</u>	<u>Duration of degree course</u>	<u>No. of students admitted in 1988-89</u>	<u>Percentage results</u>
1. Arts	F.Y. B.A.	3 years	53	93.75%
2. Commerce	F.Y. B.Com.	"	143	85.71%
3. Science	F.Y. B.Sc.	"	21	80.65%

Extra-Curricular activities

a) Sports

i) The College participated in the inter-collegiate Football, Table-Tennis, Badminton, Cricket and Athletics tournaments.

ii) The College held the Annual 'Sports Day' in the month of February, 1989.

N.S.S.

1. N.S.S. Unit of the College collected Rs750.00 towards the Cancer society.
2. Organised National Youth Work Celebrations and organised various programmes for the students and successful students were given the prizes.
3. Organised a day residential camp for "Youth for Rural Development".
4. Talks were delivered on First Aids, hygiene and Nutrition by the Doctors of Sanquelim, Mapusa and Panaji Health Centres.

A-14 Goa College of Home Science, Bambolim

The College was established in July, 1988, temporarily housed in the Government Medical College complex. There are 3 lecture rooms and 3 tutorial rooms.

No Hostel facilities are provided by the College-

Details of Teaching staff

Principal : Kum. Z. Pabani.

Departmentwise Teaching strength

Food & Nutrition Principal - 1

Details of Non-Teaching staff

U.D.C. - 1

L.D.C. - 1

Asstt. Librarian - 1

Lab. Assistant - 1

Class IV - 4

Library Volume

Text books 387

Reference books 112

Periodicals 7

Academic journals 5

Cultural Activities :

The students took part in the Inter-collegiate sports tournaments and secured first place in Table-Tennis, Second place in Tennikot and won a silver medal and bronze medal each for long jump and high jump. They participated in various cultural activities like hym competitions, creations, etc. The teachers attended a Workshop on "Nutrition Education - an Integrated Approach".

B. PROFESSIONAL COLLEGES

B -1 Goa Medical College, Panaji-Goa.

The college was established in the year 1963 and cater to instruction in the subjects leading to degree and diploma in the faculty of Medicine.

Pending the completion of its 750 bedded Hospital campus at Bambolim, the **institution** runs most of its activities in the old Complex located at Panaji.

For the extra-curricular activities, the college has play-grounds, one each for Basketball and volley-ball and two for outdoor badminton . Ample sports articles are being provided as also. international players and a trained coach have been appointed .

There are 3 hostels for boys and 2 for girls . In all 383 students are being accommodated in these hostels.

Faculty Improvement programme

The teaching faculty of the existing Departments of Goa Medical College comprises approximately qualified staff with **experience** and is in-concurrence those prescribed by the Medical Council of India. Every effort is being made to full up the existing vacancies by recruiting people with the requisite qualifications.

There is a proposal by the Government to introduce super-speciality departments in the colleges once the new campus is completed.

Details of Teaching staff

Dean of the College : Dr. G.J.S. Abraham

Departmentwise Teaching strength

<u>Department</u>	<u>Designation</u>	<u>No. of teachers</u>
i) Pharmacology	Professor	1
	Associate Professor	1
	Asstt. Professor	1
	Lecturers	2
	Demonstrators	3
	Pharmaceutical	1
	Chemistry	1

ii) Anatomy	Professor	1
	Associate Professor	1
	Asst. Professor	2
	Lecturers	2
	Demonstrators	5
iii) Microbiology	Professor	1
	Associate Professor	1
	Asst. Professor	1
	Demonstrator	4
iv) Medicine	Professor	1
	Associate Professor	2
	Asst. Professor	2
	Lecturer	2
v) Ophthalmology	Professor	1
	Asstt. Professor	1
	Lecturer	1
vi) Anaesthesiology	Professor	1
	Asstt. Professor	2
	Lecturer	2
	Registrar	
	Anaesthetist	1
	Resident	1
viii) Tuberculosis	Professor	1
& Chest	Associate Professor	1
diseases.	Asstt. Professor	1
	Lecturer	1
ix) Obstetrics and		
Gynaecology	Professor	1
	Associate Professor	2
	Asstt. Professor	2
	Lecturer	1
x) Forensic Medicine	Professor	1
	Asst. Professor	1
	Lecturer	1
	Demonstrator	1
xi) Orthopaedics	Professor	1
	Associate Professor	1
	Asstt. Professor	1
		1

xii) Paediatrics	Professor	1
	Asstt. Professor	1
	Lecturers	2
xiii) Physiology	Professor	1
	Associate Prof.	1
	Asstt. Prof.	1
	lecturers	2
	Demonstrators	5
xiv) Preventive & Social Medicine	Professor	1
	Lecturer	3
xv) Pathology	Professor	1
	Associate Prof.	1
	Asst. Prof.	1
	Lecturer	3
	Demonstrator	7
xiv) Radiology	Associate Prof.	1
	Asst. Professor	1
	Lecturer	1
xvii) Neuro-Surgery	Associate Prof.	1
	Lecturer	1
xviii) Bio-chemistry	Asst. Prof.	2
	Demonstrator	3
xix) Skin & V.D.	Asstt. Professor	1
xx) Nephrology/Medicine	Asstt. Professor	
xxi) E.N.T.	Asst. Professor	
xxii) Blood Bank	Lecturer	

Details of non-teaching staff

i) Librarian	-	1
ii) Astt. Librarian	-	2
iii) Library Asstt.	-	4
iv) Jr. Library Asstt.	-	5

Enrolment

I	M.B.B.S.	-	70
II	M.B.B.S.	-	77
III	M.B.B.S.	-	157

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- 5) A.S. Bagga, M. De Sa, G.K. Mishra, Mrs. N. Nadkarni, Neufibromatosis in successive Generation - A case report
- 6) Pinto RGW & Menezes S. A study of Luekenia in children conducted in Goa Medical College.
- 7) M.V. Mallya; Menezes S. Nadkarni N. Lymphadenopathy- Incidence, Nature and pattern in Goa.
- 8) Menezes S. Pinto RGW; Mallya M.V. Granulocytic Sarcoma (chloroma) - Two case reparts.
- 9) Mallya M.V. , Nadkarni N. Menezes S. : Squamous cell carcinoma arising from conjunctiva of eye.
- 10) Rebello M.J. & Das D.K. Burkitts Lymphoma presenting a jaw tumour in old age diagonised by Fine Needle Aspiratio cytology.
- 11) Isolated Levocardia with abdominal situs inversus. Indian paediatrics 26th June,1989.
- 12) Metopic syndrone, Indian journal of forensic Medicine H. Jain 1989 .
- 13) Neurofibroma of the duodenum . Ind. Journal of surgery April,1989.
- 14) Stenosing Tenovaginitis of Extensor carpi ulnaris journal of Bone & Joint surgery.

- 15) Socio-economic problems of temporary disabled journal of Rehabilitation in Asia.
- 16) Difficulties and problems of implant Removal Indian journal of orthopaedics.
- 17) Study of acute acromio-clavicular joint Dislocation presented at XXXIII Anual Indian orthopaedic Association Conference at Madura .
- 18) Dr. A.L. Da Costa - made arrangements in organising the VII National Congress on Respiratory Diseases which was held from 5th to 7th January, 1989 hosted by Goa Medical College on behalf of the Indian chest society.

Research Projects :

The following Departments have under taken Research projects during the year:

- 1) Department of Physiology : is engaged with ICMR Research project entitled 'Hippocampus as cognitive map implications of Interruption of Hippocampus-septum-Hippocampus cholinergic loop in spatial memory tested with rats in 4arm radial open maze.

Investigator : Dr. R.A. Dhume

Co-investigator : Dr. J.F. Mascarenhas
Dr. (Mrs.) A. Noronha and
Dr. (Mrs.) M.D. Nagvekar

Duration : Three years beginning from September 1986 and which ended on 31-8-89.

- 2) The Department of Bio-chemistry

- i) Lipid peroxidation induced proteolysis in human erythrocytes finced by R.D. Birla smark kosh, Bombay.
- ii) Studies on membrane associated proteases of human erythrocytes purification characterization and age related alterations.

- 3) The Department of Microbiology

- i) Open clinical trial of ciclopirex olamine % cream for cutaneous candidiasis.
- ii) Clinico Bacteriological study of Paediatric Diarrhoea in collaboration with the Department of Paediatrics.

- iii) Evaluation of rapid methods in diagnosis of group A Streptococcal infection.
- iv) Shigellosis in Goa.
- v) A erugioncime typing of Pseudomonas a eruginosc isolates.
- vi) Clinics microbiological correlation & immunology in Leprosy before and after treatment.
- vii) Clinics bacteriological correlation from Paediatric cases of acute diarrhoea.

4) The Department of Medicine

- i) study of Malaria in Goa with special reference to clinical feature - immunology and drug resistance.
- ii) Pattern of acute Renal failure in Goa.
- iii) Clinical, radiological and biochemical Histopathological study .
- iv) A study of Echocardiography and stress test in Ischemic Heart disease - CSIR sponsored study.
- v) Prognostic significance of serial stress testing early after acute myocardial infarction.
- vi) study of arrhythmias complicating acute myocardial infarction.
- vii) Serum copper and zinc in alcoholic disease.
- viii) Serum copper and zinc in alcoholic liver disease
- ix) Lactose deficiency in patients of chronic diarrhoea.
- x) Hepatitis B surface antigen in patient of alcoholic liver disease and in viral hepatitis .
- xi) Norbactin 400 mg. in acute diarrhoeas.
- xii) Endoscopic & Histological evaluation of Non ulcer dyspepsia.
- xiii) Prognostic value of pre-hemispheric discharge 24 D
Echocardiographic assessment of patients with acute myo-infarction.
- xiv) Cardiac functions in chronic iron deficiency anaemia - a study of systolic line intervals.
- xv) A study of snake bite poisoning.
- xvi) Complications of Hypertension - a clinical study.
- xvii) Complications of diabetes Mellitus - a clinical study.

5) Department of Obstetrics & Gynaecology .

6) Department of T.B. & Chest diseases

- a) National short course chemotherapy - Dr. A.S. Bagga was the Principal investigator of the project.
- b) Hoechst Trial - A clinical trial on loxacin in bacterial phenomias. The Principal investigation was Dr. A.S. Bagga.
- c) Tuberculosis Association of India Trial .
A controlled study among alcoholic and non alcoholic T.B. patients from Goa.

7) Department of Anaesthesiology

- i) Use of pulse oximetry in relation to memoglobin percentage in anaesthetic practice.
- ii) Glasgo coma scale and pitts burg scale in evaluation of Head Injury.
- iii) Apgar score under various anaesthetic technique
- iv) Evaluation of Intra-thecal Buprenonplanine
- v) Evaluation of Intra-Muscular Buprenorphine.

8) Department of Preventive & Social Medicine

- i) Determination of the relative incidence of the 2 types of intra-uterine growth retardation-
- ii) Outcome of the 2 types of IUGR in terms of growth and development in the first year of life.

Details of Research students

<u>Name of Research Guide</u>	<u>No. of students</u>	
	<u>Full-time</u>	<u>Part-time</u>
Dr. (Mrs.) Suzette Menezes	1	-
Dr.(Mrs.) Nisha S. Nadkarni	1	-
Dr. V.G. Dhume	1	-
Dr. N.G. K. Sharma	-	1
Dr.(Mrs.) S. Parashar	-	3
Dr. C.F. Kapoor	-	1
Dr. N.G. Dudhashi	-	1
Dr. (Mrs.) Lata Kamat	-	2
Dr. W.K. Belokar	-	5
Dr. Vasco D'Silva	-	4
Dr. Oswald De Sa	-	3
Dr. A.N. Jadhav	-	2

	<u>Full-time</u>	<u>Part-time</u>
Dr. M.N. Pal	3	-
Dr. (Mrs). E. Dias	3	1
Dr. BUhariwalla	2	-
Dr. Prasad Navrekar	3	-
Dr. Milan Bhandare	2	-
Dr. R.N. Shetti	9	-
Dr. (Mrs.) B.R. Naik	2	-
Dr.(Mrs.) Marilyn P. Nazareth	5	-
Dr. R.N. Shetti	2	-
Dr. A.S. Bagga	6	-
Dr. V.L. Rege	6	-
Dr. S.B. Dixit	7	-

Library : (position as on 20-4-89)

- Books - 1200
- Journals - 162
- Back volumes- 8384

B - 2 Goa College of Pharmacy, Panaji - Goa.

The College was established in the year 1963 and caters to instruction in the subjects leading to B.Pharm, degree. Post-graduate degree and diploma courses are also conducted by the College.

The institution is functioning in two buildings with extensive space for six class rooms, Principals' and College offices, Library, etc. Although the college makes use of Govt. grounds for outdoor games, there are facilities for Volly-ball games in the College Compound. There are also hostel facilities provided for the students during the year. There were 60 boys and 35 girls accommodated in these hostels.

Details of Teaching Staff :

Principal : Prof. J. Emmanuel, who is also the Professor of Technology.

Designationwise Teaching strength

- i) Professors - 2
- ii) Asstt. Professor - 3
- iii) Lecturers - 11
- iv) Demonstrators - 1
- v) Instructor of Physical Education - 1

Non-Teaching Staff

- i) Sr. Laboratory Technician - 1
- ii) Technical Asstt. - 4
- iii) Head Clerk - 1
- iv) Accountant - 1
- v) Librarian - 1
- vi) Stenographer - 1
- vii) U.D.C. - 2
- viii) Asstt. Librarian - 1
- ix) Store-keeper - 2
- x) Doc- Asstt. - 2
- xi) L.D.C. - 5
- xii) Librarian - 1

Library - (Position as on 20-4-89)

Books - 3,492 Nos.
Journals - 42 Nos.

Enrolment and Results :

<u>Branch of study</u>	<u>Degree awarded</u>	<u>Total enrolment</u>		<u>Percentage results of final year</u>	
		<u>Boys</u>	<u>Girls</u>	<u>Mar. Apr. 88</u>	<u>Mar. Apr. 89</u>
(Pharmacy Technology)					
I Year		13	17		
II Year		8	4		

B-3. College of Engineering , Goa. Farmagudi-Goa.

The College was established in 1967 and managed by the Government of Goa to cater to instruction in the approved subjects leading to the degree of Bachelor of Engineering (B.E. in Civil ,Mechanical, Electrical,Electronics and Tele-communi- cation branches.

Facilities for all outdoor games are provided by the College. During the year 470 boys , and 60 girls were provided with accommodation in the College owned 4 boys hostel and 1 girls hostel.

Details of Teaching staff

i) Principal	-	1
ii)Professor & Head of the Department	-	5
iii)Professors	-	3
iv)Asstt.Professors	-	15
v)Workshop Superintendent	-	1
vi)Lecturers	-	6

Details of Non-Teaching staff

i) Store Officer	-	1
ii)Deputy Registrar	-	1
iii)Asstt.Accounts Officer	-	1
iv)Accountant	-	1
v)Head Clerk	-	1
vi)Library Attendent	-	2
vii)U.D.C.	-	2
viii)Stenographer	-	1
ix) L.D.C.	-	10
x) Draftsmen	-	1
xi) Technical Asstt.	-	7
xii) Laboratory Asstt.	-	19
xiii)Class IV	-	55

Library

Text books	-	26600
Reference books	-	400
Periodicals	-	10
Academic Journals	-	75

Enrolment and Results

Four Year Courses

Percentage results of final semester.

	I year		II Year		III Year		IV Year		Mar. Apr.	Oct. Nov.
	<u>Boys</u>	<u>Girls</u>	<u>Boys</u>	<u>Girls</u>	<u>Boys</u>	<u>Girls</u>	<u>Boys</u>	<u>Girls</u>	<u>1988</u>	<u>1988</u>
Civil	128	22	29	06	45	06	62	09	91.70%	100%
Mech.	-	-	46	01	53	00	61	01	85.60%	100%
Elect.	-	-	19	04	16	10	31	03	66.66%	62.50%
ETC.	-	-	19	04	21	03	26	03	88.46	40.00%

B-4 Nirmala Institute of Education, Altinho, Panaji-Goa

The Nirmala Institute of Education established in June 1967. The college is affiliated to Goa University and imparts instruction in courses leading to B.Ed. and M.Ed.

The institute is run by the Nirmala Education Society and is housed in the building owned by the Society of the Daughters of the Heart of Mary. There are 4 lecture rooms and 5 Tutorial rooms. In addition to sufficient space to carry out its administrative and other curricular activities.

Since most of the students are over 25 years of age, no outdoor games are conducted by the institute. However, provision is made for indoor games. Hostel facilities are provided only for girl students within the campus itself.

Details of Teaching staff

Principal: Dr. (Miss) Jennifer Fonseca, who is also a lecturer in the college.

Teaching staff :

<u>Category</u>	<u>Full-time</u>	<u>Part-time</u>
Permanent	9	Nil
Probationary	1	Nil
Temporary	1	Nil

Total Teaching strength - 11

Designationwise

Principal	-	1
Professor	-	1
Lecturers	-	9

Details of non-teaching staff :

i) Librarian	-	1
ii) Head Clerk	-	1
iii) Accountant	-	1
iv) Senior Clerk	-	1
v) Junior Clerk	-	1
vi) Class IV staff	-	5

Enrolment and Results

Branch of study	Degree to be awarded	Duration of Degree course	No. of students admitted 1988-89			Percentage results of final year	
			Girls	Boys	Total	April.88	April.89
Education	B.Ed.	One year	22	78	100	99%	97%
Education	M.Ed.	two years	6	10	16	100%	80%
		1st					
		2nd	5	4	9		

Library :

i) Books - 9258

ii) Periodicals - 42

B-5 Goa College of Fine Art, Altinho, Panaji-Goa.

This is a Government of Goa institution established in June 1972 and caters to instruction in approved subjects leading to B.F.A. (Painting) and B.F.A. (Applied Art) degrees

It functions in its own building having nine class rooms. Outdoor sports activities are conducted on the Police play-ground which is adjacent to the college premises. For hostel facilities, there are 2 flats for boys and seats for girls students are allotted in Government Polytechnic and Pharmacy college girls hostel.

Details of Teaching staff

i) Principal	-	1
ii) Sr. Lecturers	-	2
iii) Lecturers	-	16

Non-teaching staff

i) A.A. Officer	-	1
ii) Reg-cum-Head Clerk	-	1
iii) Accountant	-	1
iv) Librarian, G.I.	-	1
v)	-	1
vi) U.D.C.	-	1
vii) Jr. Stenographer	-	1
viii) L.D.C.	-	2
ix) Drivers	-	2
x) Class IV Staff	-	11

Library

i) Text/Reference Books	5288
ii) Periodicals/academic journals	- 2180

Enrolment and Results

<u>Branch of study</u>	<u>Total Enrolment</u>		<u>Degree</u>	<u>Percentage results of final year</u>	
	<u>Boys</u>	<u>Girls</u>		<u>March '88</u>	<u>March '89</u>
1. Bachelor of Art and Applied Art.					
I Year	29	11			
II Year	26	14			
III Year	25	9			
IV Year	23	16			
V Year	13	12	B.F.A. (Painting)	100%	100%
			B.F.A. (Applied Art)	94%	95%

Other activities

- i) The staff and students participated in various open Art Exhibitions.
- ii) The staff members were invited to give lectures on Art in other Co-educational institutes.
- iii) College actively participated in Inter-Collegiate sports.

B-6 Mahadevrao Salgaocar College of Law

The College was established in June 1973 and since then it has been imparting instruction leading to the first degree in law (LL.B). Besides this Diploma classes of the Goa Institute of Management Studies are also conducted by the College.

The College is managed by the Devi Shreevani Education Society, Vasco Da Gama in its own two-storeyed building having 4 class rooms. Grounds are taken on hire for indoor and outdoor games, the college has however no hostel facilities.

Details of teaching staff

Principal : Shri M.N. Samant.

Teaching staff:-

(1) Eight

<u>Category</u>	<u>Full-time</u>	<u>Part-time</u>
Permanent	4	-
Temporary	-	5

Details of Non-teaching staff

i) Head Clerk	1
ii) Accountant	1
iii) Librarian	1
iv) Library Assistant	1
v) Typist	1
vi) Steno	1
vii) Class IV staff	7

Enrolment and results

<u>Branch of study</u>	<u>Degree to be awarded</u>	<u>No. of students admitted in 88-89</u>		<u>Percentage of results</u>		
		<u>Girls</u>	<u>Boys</u>	<u>Apr.88</u>	<u>Oct.88</u>	<u>Ag</u>
1.F.Y.Law	LL.B.	55	124			
2.S.Y.Law		22	54			
3.T.Y.Law		11	53	34%	28%	

B-7 Vidya Vikas Mandal Govind Ramnath Kare College of Law
Margao - Goa.

The College which was established in June, 1979 is run by the Vidya Vikas Mandal and caters to instruction in the approved subjects leading to LL.B. degree.

The institution is run in a private building having four classrooms and other space for college office, Principal's office, library, etc.

In the absence of its own playground, sports activities are held on the neighbouring grounds. There are also no hostel facilities provided by the College.

Details of Teaching staff

Principal : Prabhakar Narayan Timble.

Total Teaching strength : 8

	<u>Full-time</u>	<u>Part-time</u>
Permanent	1	-
Probationary	-	-
Temporary	2	5

Details of Non-teaching staff

Head Clerk	-	1
Librarian	-	1
Jr. Clerk	-	1
Class IV Staff	-	5

Enrolment and results

Branch of study	No. of students admitted in 1988 - 89		Percentage results		
	<u>Boys</u>	<u>Girls</u>	Apr.88	Oct.88	Apr.89
F.Y. LL.B.	97	24			
S.Y. LL.B.	44	9			
T.Y. LL.B.	31	7	19.44	44.83	77.78

Library

Library books	-	3147
Reference books	-	672
Periodicals	-	3
Journals	-	9

B-8 Goa Dental College & Hospital, Bambolim-Goa.

This is a Government College which was established in June 1980 to cater to instruction in the approved subjects leading to B.D.S. degree.

It functions in one of the buildings located in the Goa Medical Campus. There are 3 class rooms, one college office, one Principal's office and other rooms for library, reading hall, Gymkhana, teacher's common room, etc.

In the absence of its own playground the Goa Medical College ground is being used for Sports activities.

So also, students are being accommodated in the hostels of Goa Medical College. There were 70 hostelities during the

Faculty Improvement Programmes

Dr. Y.C. Mishra was deputed to attend the Fourteenth Annual Conference at Bombay of Oral & Maxillo-facial Surgery and also to attend the National Seminar on Oral cancer at Madras.

Details of Teaching Staff

Dean : Dr. G.J.S. Abraham

Departmentwise Teaching strength

i) Periodontia	Professor	-	1
	Asstt. Prof.	-	1
	Lecturer	-	1
ii) Prosthetic Dentistry	Professor	-	1
	Asstt. Prof.	-	1
	Lecturers	-	2
iii) Oral Surgery	Professor	-	1
	Lecturer	-	1
	Demonstrator	-	1
iv) Orthodontia	Professor	-	2
	Lecturer	-	1
v) Operative Dentistry	Professor	-	1
	Lecturer	-	1
vi) Oral Medicine & Radiology	Asstt. Professor	-	1
vii) Radiology	Lecturer	-	1
viii) Community Dentistry	Lecturer	-	1
ix) Periodontia	Lecturer	-	1

Details of Non-teaching staff :

i) Asstt. Accounts Officer	-	1
ii) Office Superintendent	-	1
iii) Asstt. Librarian	-	1
iv) Accountant	-	1
v) Staff Nurse	-	7
vi) Jr. Mechanical	-	1
vii) U.D.C.	-	2
viii) Jr. Stenographer	-	1
ix) Jr. Store Keeper	-	1
x) Dental Technicians	-	2
xi) Dental Hygienist	-	1
xii) X-Ray Technicians	-	1
xiii) Artist-cum-Photographer	-	1
xiv) L.D.C.	-	5
xv) Jr. Library Assistant	-	1
xvi) Laboratory Assistant	-	5
xvii) Asstt. Electrician	-	1
xviii) Plumber	-	1
xix) Mechanic	-	1
xx) Drivers	-	3
xxi) Radiographer	-	1
xxii) Class IV staff	-	14

Enrolment and Results

<u>Class</u>	<u>Total Enrolment</u>		<u>Percentage results of final year</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Apr.88</u>	<u>Nov.88</u>	<u>Apr.89</u>
Ist year Dentistry	6	19			
2nd year Dentistry	9	16			
3rd year Dentistry	3	24			
4th year Dentistry (Semester I)	2	9			
(Semester II)	4	19	90%	100%	75%

Extra-curricular activities

a) Sports :-

i) Students participated in inter-collegiate sports in which the achievements were gold in weight lifting, bronze in power lifting. At the state level sports one of the student won the 3rd place in Body Building.

b) Cultural Activities :-

- i) Traditional fresher welcome party was organised.
- ii) Ganesh Festival week was celebrated
- iii) In the Dental week celebrations like Quiz, What's the good word, Tom, Dick and Hardy were organised.
- iv) Other activities like Carol Singing and Crib for Christmas were held.

B-9 Goa College of Architecture, Miramar, Panaji-Goa.

This is a Government college, which was established in June 1982, to cater to instruction in the approved subjects leading to B. Arch. degree.

It functions in a private rented building. There are 4 studies and one lecturer room.

The open ground at Campal is being used for sports activities as the college does not have its own playground.

The hostel facilities are provided on share basis with the Polytechnic, and the Pharmacy where in all 7 students were provided with hostel accommodation.

Faculty Improvement Programme

The Goa College of Architecture has sufficient infrastructure for carrying out the present academic programme. Three vacant posts of lecturers are likely to be filled up during 1989-90. The sanctioned technical staff will also be recruited during this year.

To give the students the benefit of practical experience, experts from various fields related to Architects are invited as visiting faculty from time to time.

The College has acquired all the necessary laboratory equipment, particularly for field survey, photography, including video and other audio visual aids. Tape-cum-slide lecture and audio visual material is extensively used in the teaching programme. Simultaneously, the Library is enriched with a wide range of periodicals covering all aspects of Architecture including planning, urban Design, Interior Landscape, etc.

The computer system installed in the College is also put to extensive use by developing programmes related to student records, examinations, library cataloguing etc.

Negotiations are underway to establish a "Building Centre" in collaboration with HUDCO, New Delhi. This would provide an excellent opportunity for students to engage themselves in research in low cost building materials.

Institutional Architectural consultancy shall be started now that the Council of Architecture has finalised the revised rules for the same. This would be an important step in contributing to the Architectural development in Goa, and would certainly attract the professionals to join the teaching faculty.

The Government has allotted land measuring 6220 sq. mt. at Altinho, Panaji. The design for the College building has been prepared and construction work will be taken up accordingly.

Details of teaching strength

Principal: Shri S.A. Javaid who is also the Professor
in the College.

No. of teachers by designation

Professor	-	1
Asst. Professor		2
Lecturers		4

Details of Non-teaching staff

i) Librarian cum Administrative Officer	-	1
ii) Head Clerk	-	1
iii) Model Room Asst.	-	1
iv) Jr. Stenographer	-	1
v) U.D.C.	-	1
vi) L.D.C.	-	1
vii) Driver	-	2
viii) Class IV staff	-	4

Enrolment and Results

<u>Branch of study</u>	<u>Duration of course</u>	<u>No. of students admitted in 88-89</u>	
		<u>Girls</u>	<u>Boys</u>
1st Year Arch.	5 years	9	14
IIInd Year Arch.		14	7
IIIrd Yr. Arch.		7	9
IVth Yr. Arch.		9	12
Vth Year Arch.		15	11

Library (position as on 20-1-88)

Books	-	2401
Reference books	-	200
Periodicals	-	10
Academic journals	-	30

Extra-curricular activities

- i) The students participated in sports as football/cricket, etc. and other cultural activities conducted by other creation, Happenings, etc. they also won some prizes.
- ii) One of the student was awarded the man of the year Trophy at Goa University .
- iii) The Students Council had published a news letter.
- iv) A team of twenty-eight students participated in the National Association of students of Architecture Convention 1989 at Calcutta .

B-10 Kala Academy College of Music

The Kala Academy College of Music at Campa was established in 1987 by Government. It is temporarily affiliated to the Goa University to impart instruction in the Indian Classical, Vocal and instrumental music leading to the degree in Bachelor of Music, which is a five year course of study.

Besides the Principal, Shri C.S. Naringrekar, there are 5 temporary teachers who work in the College on part-time basis.

During the year there were only 5 boys and 2 girls in the II year of the course.

C - INSTITUTES

C-1 Xavier Centre of Historical Research

The Centre which was established in 1978 is recognised by the Goa University as a Post-Graduate Institute for historical research and for guiding students for research work leading to Ph.D. Degree in History.

It is run in a building owned by the Goa Xavier Co.Pvt. Ltd., whose Chairman is also the Chairman of the Centre. The ground floor of the building consists of various offices, two Conference rooms, one lounge, a Computer-cum-microfilm room and a reprography room. The auditorium-cum-museum and the Historical Research Library are located on the upper floor. There is also a Reading room and a Manuscript room attached to the Library.

Research facilities

The research facilities provided by the Institute are widely utilised by the post-graduate students and research scholars, of the Goa University and its affiliated colleges as well as by scholars from outside Goa and from abroad.

The Centre has a collection of nearly 12,500 books, 170 cyclostyled volumes of Government reports and various history seminars, 41 volumes of xeroxed archival material and 147 loose maps of historical and geographical value. The journal section of the library holds 392 titles.

The Portuguese documents of Mhomai house papers numbering over 100,000 papers have been arranged chronologically into files .

The microfilm section has about 8,500 documents on microfilms, and more are being added from time to time.

The mini-museum of the Centre concentrates on Goan Christian Art and includes also valuable collections of postal stamps, coins and medallions.

Academic staff

1) Director - Dr. Teotonio R. de Souza ,S.J.

Non-teaching staff

i) Administration	-	1
ii) Jr. Librarian	-	1
iii) Library Assistant	-	1
iv) Office Assistant	-	1
v) Office Attendant	-	1

Institute and staff activities

The Institute organised a month-long intense course of Portuguese language for researchers from mid October to mid November, 1988.

The Director participated in the South Indian History Congress at Pune (30th November - 2nd December, 1988) and spoke at its concluding symposium on "South India's Maritime Trade".

From 28th to 31st January, 1989, Dr. De Souza and Fr. Charles Borges participated in the V International Seminar on Indo-Portuguese History at Cochin and read papers.

Fr. Charles Borges submitted his Ph.D. thesis to the University of Bombay on 24th February, 1989.

On 27th February, 1989, Prof. B. Sheik Ali released the 7th publication of the XCHR, namely Essays in Goan History on the occasion of the inauguration of the annual history seminar of the Goa University, Both Dr. de Souza and Fr. Charles read papers at the same seminar.

From March 30 - April 5 Dr. de Souza participated at a consultation of the Theological Association of Asia at Singapore.

On 8th August, 1989 the Director participated in a workshop on Latin America at the Goa University.

From 27th August, till 20th September the Director conducted a course on History of Christianity in India for the students of Jnana Deepa Vidyapeeth, Pune.

On April 17 Dr. De Souza read a paper at a seminar on "Democratisation Process in Latin America" at the Goa University.

Three Ph.D. scholars continued their research under the guidance of Dr. de Souza, while one dropped (Fr. Venancio Fonseca) out and one died (Mrs. Mira Mascarenhas).

C-2. Goa Institute of Management Studies

The Institute which was established in June 1972 is run by the Devi Shreevani Education Society, Vasco-da-Gama in the same building where Mahadevrao Salgaonkar College of Law is located. The Director, Co. (Rtd.) N.S. Dwarkanath is the only teaching member of the Institute. However, it has a policy of inducting the practising managers in the various fields of management. Certain academicians and well known personalities, who came to the Institute and impart instructions.

The Library of the Institute has over 2,000 books and 14 journals.

Enrolment, and Results

<u>Branch of study</u>	<u>Diploma awarded</u>	<u>Duration</u>	<u>No. of students</u>	<u>Percentage results</u>
				<u>April</u>
(a) Business Administration (1987-88)	DBM	1 year	30	50%
(b) Business Management (1988-89)	DBM	1 year	34	19%
2(a) Administration Management (1987-88)	DAM	1 year	12	75%
2(b) Administration Management (1988-89)	DAM	1 year	17	41%

C-3 Vidya Vikas Mandal's Institute of Management Training and Research .

The Institute which was established in June, 1981 is run by the Vidya-Vikas Mandal. It was recognised by the Goa University in the year under report for conducting post-graduate part-time one year courses in Management leading to D.B.M. and D.A.M. diplomas.

It is run in private building which has four classrooms in addition to one room each for Director's office, College office, teachers common room and students common room.

As the institute runs part-time courses on Saturdays and Sundays only it provides no other facilities like play-ground, hostels, etc.

Teaching staff

<u>Department</u>	<u>Number</u>
i) Management	1
ii) Commerce	3
iii) Economics	1
iv) Accountancy	1
v) Mathematics & Statistics	1
vi) Engineering	1

Non-teaching staff

This staff consists of only one temporary office Assistant and one-part-time library in-charge.

Library

There are in all 200 library and reference books, periodicals and journals.

Enrolment and results

<u>Branch of study</u>	<u>Degree to be awarded</u>	<u>No. of students appeared</u>		<u>Pass percentage</u>
1. Management	D.B.M.	15	9	60%
2. Management	D.A.M.	7	1	15%

C-4 National Institute of Oceanography

General

The Institute which is headed by a Director, is a Government of India institution and has its headquarters at Dona-Paula, Goa. Dr. B.N. Desai is its present Director. The main involvement of this Institute is the ocean research in which India achieved a significant landmark by becoming the first country in the world to obtain rights for mining the polymetallic nodules in the Central Indian Ocean from the United Nations.

The Institute, which was temporarily recognised by the University of Bombay, obtained a blanket recognition from the Goa University w.e.f. June 1986, for courses leading to Ph.D. students are registered for Ph.D. under the guidance of the following recognised teachers working in the Institute.

1. Dr. B.N. Desai
2. Dr. A.H. Parulekar
3. Dr. R. Nigam
4. Dr. A.B. Wagh
5. Dr. S. Arghukumar
6. Dr. R.R. Sengupta
7. Dr. J.S. Shastri

Visitors

During the year, many high dignitaries, scientists and Professors both national and international, visited the Institute. Some of them delivered a series of specialised lectures, talks, etc.

Library

The Library of the Institute has a large collection which is widely used, not only by the staff but by outsiders also. The collection of the Institution consists of :

Books	Over 18,000
Technical reports	Over 4,860
Journals	over 300

C-5 Directorate of Archives, Archaeology & Museum ,
Panaji - Goa.

This is a Government institution, which was established in the State in the year 1598 to cater to post-graduate instruction and teaching in Ph.D. degree in History. Dr. P.P. Shirodkar, who is the Director of the Institute is the only teaching member of the institution. The Library of the Department consists of over 30,000 books.

During the year three students were doing part-time research under the guidance of Dr. Shirodkar.

Research Project sponsored by Goa University

Name of the awardee	- Dr. P.P. Shirodkar
Title of the Project	- "Goa Through the Ages" (Political History)

Visitors

Sixteen foreigners and eighteen Indian scholars visited the Department during the year.

Seminar, Conference, workshops, etc.

The Directorate of Archives and the Goa University had jointly organised the Third Local History Seminar in "Socio Economic Aspects of Colonialism in Goa 1800-1961". The following staff members had presented the research papers to the aforesaid seminar :-

1. Dr. P.P. Shirodkar ,Director
2. Dr. S.K. Mhamai, Archivist (Management)
3. Shri M.L. Dicholkar, Archivist (Publication).
4. Shri A.L. Fernandes ,Research Assistant (Jr.)

2. Dr. P.P. Shirodkar also participated at the 5th National Seminar on Indo-Portuguese History held in Cochin in January-February 1989 and presented a paper on "China and Portugal :

Centuries Old Interaction

3) Dr. P.P. Shirodkar as a member of the recognition committee for the appointment of Guide (History) attended one meeting and participated in it. He also represented one board of studies (History). He is collecting the material for the project, Goa Through the Ages. (Political History) . He had

also coordinated with Dr. B.S. Shastri to organise the Local History Seminar.

9. Publications :-

The Department has brought out two issues of six monthly research journal Purabhilekh-Puratatva and the Third issue is under print. These are :-

1. Special Issue on India and Mozambique Vol.VI Number One
January-June 1988.
2. Vol.VI Number two, July-December,1989.

Publications of Dr. P.P. Shirodkar are given separately.

1. India and Mozambique : Centuries Old Interaction
2. The Mission of Archivist
3. China and Portugal : Centuries Old Interaction.

C H A P T E R I V

OTHER ACTIVITIES

A. LIBRARY

The University Library came into existence with the establishment of the Goa University in June, 1985. In fact, the start was made by annexing the library of the Centre of Post Graduate Instruction and Research, University of Bombay to the Goa University Library, whereby a collection of 37627 books and periodicals formed the basis of the present Library.

This section of the University is actually the central point of educational and research activities as it caters to the needs of various post-graduate students, research scholars and faculty members. To this effect, it is being replenished with newer and latest additions, year after year. Today, the total collection has reached to 53025 volumes of books, covering a number of disciplines under Humanities, Science and Social Science covering wide range of subjects like Philosophy, Sociology, Politics, Economics, Education, Languages, and Literature in English, Hindi, Marathi, Konkani, French and Portuguese, Mathematics, Computer Science, Physics, Chemistry, Geology, Marine Science, Microbiology, Management Studies, Arts, History and Biographies.

The Library has a separate journal section which subscribes 428 journals. Some journals are also received as gratis. Besides, the Library consists of thesis and several dissertations. More journals are being procured so as to strengthen the research activities of the University. In addition, the special needs of Historical Research are catered through Professor P.S.S. Pissurlencar Collection Library which consists of 4486 books, journals, documents, photostat copies and microfilms. The Goa University has the following collections of books and journals which enrich the University's corpus.

- a) About 610 books from the heirs of Professor Vithalrao Sukhthankar.
- b) About 80 books in Portuguese from Dr. Shridhar Tamba.

- c) A collection of about 467 books in Philosophy (of Prof. D'Andrade's collection) from the Bombay Philosophical Society, Bombay)
- d) About 519 books in Portuguese mainly concerned with Portuguese Literature of the 19th Century from Advocate Paul Mascarenhas in the memory of his late father.
- e) About 146 + 149 books in French and Portuguese from Prof. G.V. Kantak.
- f) Collection of books/periodicals, pamphlets etc. 721 donated by Shri Carmo Azavedo on Goa and by Goan Authors.
- g) About 324 books mostly on Ayurveda from Dr.Raguvir P. Sinha
- h) A collection of books numbering 1676 mostly Marathi from Shri Wamanrao Kundaikar.
- i) A collection of books numbering 289 mostly Portuguese from Shri Xavier De Monte Furtado.
- j) A Collection of 125 books mostly Portuguese from the Xavier Centre for Historical Research, Porvorim.

Also the USIS Library, Alliance Francaise and British Council Library donate books regularly to the University Library. This includes 190 books specially in Latin American Studies in the USIS collection.

Working Days:

The Library is kept open for all the days except Sunday, throughout the year, besides the normal working hours of the Library, the reading rooms are kept open for extended hours so as to facilitate its use by the readers. During the examination days, the Library is kept open even on Sundays and Public Holidays.

The normal timings of the Library are 9.00 a.m. to 6.30 p.m. on week days and 10.00 a.m. to 5.45 p.m. on 1st, 3rd and 5th Saturdays of the month.

Readers and use of Library:

The University has 800 registered readers including the staff members and several casual visitors. Inter Library exchange of books and journals is encouraged and the journals are regularly exchanged with the Library of National Institute of Oceanography.

Teachers and students of the local colleges are encouraged to use the University Library and the reference and borrowing facility is extended to them. Ph.D. Students are issued ten books at a time, as a special facility to boost research activity in the University.

The Library continues to receive presentation of books/ periodicals from a number of persons and institutions.

Other Materials:

Several maps are also collected by the Goa University Library.

BIBLIOGRAPHICAL and Documentation Service:

Bibliographies of reading materials available in the Library were compiled and supplied on demand to staff members on special subjects. A list with the latest addition is circulated to the University Departments. Recently, an exhaustive list of periodicals holdings of the Library has been published.

University Bindery:

Bindery unit been opened to cater to the needs of day to day mending/binding of books and journals.

Classification and Cataloguing:

Books are classified according to Dewey Decimal Classification and subject and author (Main) catalogues are maintained. There are separate catalogues for collection. Moreover the library collection (Books & Journals) is on computer now. Serious Readers/Research students can avail the facility of having a print out of the holdings of the library: authorwise, subjectwise etc.

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B. KONKANI ENCYCLOPAEDIA.

The University has undertaken a project for preparation of Konkani Encyclopaedia to cater to the needs of the scholars as well as of the common man knowing Konkani.

Encyclopaedia information will be classified into various subjects. The Encyclopaedia will be of course, contain entries regarding general knowledge covering the whole world, but emphasis will be laid on information regarding the konkani speaking territories, their people history, geography, art and culture, customs and manners, etc.

The Encyclopaedia will consist of 3000 pages with three volumes of 1000 pages each. The source material will be taken from Encyclopaedias in English, French, Portuguese, Hindi, Marathi, Kannada etc. and from the specialised works, but original articles on local topics that have not obviously been already dealt with in other works, will be written by the scholars conversant with the subject.

This project will be first of its kind in the history of Konkani Language and will go a long way in bringing general knowledge to the doors of the common konkani men.

Staff

1. Dr. M.L. Sardesai, M.A. D.Lit.
Chief Editor
2. Dr. T.D. Halarnakar, M.A. Ph.D.
Executive Editor
3. Shri Mukesh P. Thali
Research Assistant
4. Shri Shailendra Mehta
Research Assistant
5. Shri Pandarinath Sursure
Editorial Assistant
6. Kum. Kanchan Sheldenkar
Editorial Assistant.

Participation in Seminars, Conferences, Workshops, etc.

Dr.M.L. Sardesai

(Reported under the Department of French)

Dr.T.D. Halarnakar

- 1) Presented paper on "Writer: An artist and a man", in the seminar "Literary Criticism" organised by Rajhauns Vitaran publications in March 1989.
- 2) Presented paper on "Social life in the short stories written by Shri Chandrakant Keni" in the seminar organised by Sahitya Sangati in March 1989.
- 3) Delivered a lecture on "Social Developments in Goa" at Sankordem Goa in August 1988 under the auspices of the Board of Extra Mural Studies of Goa University.
- 4) Delivered a lecture on 'Social-historical change in Goa' at Mandrem Goa in February 1989.
- 5) Participated in the session of All India Konkani Sahitya Parishad held at Manipal in January 1989.
- 6) Participated in the seminar on "Issues of National building, Development Process and Communication" organised by Centre for Research in Rural & Industrial Development, Chandigarh and Goa University in March 1989.
- 7) Participated in Seminar on "Historical Fiction in Marathi" organised by Sahitya Akademi, New Delhi and Goa Marathi Akademi in April 1989.
- 8) Participated in Seminar on "Influence of Ramayan & Mahabharat on Indian literature" organised by Goa Konkani Akademi in April 1989.

Publications

Dr.T.D. Halarnakar

- 1) Co-writer of "Konkani Orthography" published by Goa Konkani Akademi in October 1988
- 2) Published article 'Phases of Goan Society' in Vangadi in October 1988.
- 3) Published article 'Relationship between man and woman; Co-operation or Constraint?' published in 'Chitrangi' in October 1988.

Other Details

Dr.T.D. Halarnakar

- 1) Nominated as Reviewer for the Konkani Text books, prepared by S.I.E., Govt. of Goa.
- 2) Nominated as Convenor of Teachers Training Course for Konkani Teachers, organised by Konkani Bhasha Mandal, Goa.
- 3) Worked on the Jury, constituted for selecting the literary works in Konkani for state literary awards of Kala Academy, Goa.

C. Extra-Curricular Activities of the University

During the year the following extra-curricular activities were undertaken by the Goa University:

1. Directorate of Students' Welfare and Cultural Affairs.

Dr.F.A. fernandes, Lecturer in Department of English was appointed as the Director of Students' Welfare for the year 1988-89. Shri Shripad Pai was appointed as the Cultural Assistant for the year 1988-89. The various activities undertaken by the Directorate during the year 1988-89 are as follows:

The Students' Council of Goa University was constituted as provided under the University Statutes S.47 and the following were elected as the office bearers for the year 1988-89.

Shri A.S. Pangam	-	Chairman
Shri M.S.A.S. De Araujo	-	Gen. Secretary
Shri Sandesh Dessai)	Executive Members.
Miss Collina Fernandes)	
Shri Balkrishna Marathe)	
Shri Pawarkumar Sharma)	

The selection of the University Youth Team was done in the month of September'88. Our Youth Team participated in the West Zone Inter-University Youth Festival held in Indore from November 20 to 23 November, 1988 in Quiz, Skit, Mime, One-Act-Play and Fine Arts. Our participants won the first place in Western Group Vocal and third place in One-Act-Play and Mime. The overall runner-up Trophy was won by our Youth Team.

The Victorious Youth Team was invited to participate in the Inter-University National Youth Festival'89 organised by Indian School of Mines, Dhanabad from 31 January, 1989 to 4 Feb. 1989. Smt. Priya Tadkodkar, Lecturer in Konkani led the team. Our participants won the honour of being in the Best Four Teams. at the national level in Quiz and Western (solo).

Goa University Students' Council organised on 7 March, 1989, inter-collegiate Youth Festival in which the students from the affiliated and recognised institutions from Goa participated. Indeed there was an overwhelming response for Mime, Quiz, Essay Competitions, Art work, Debate and Singing.

GUSC organised Prize Distribution functions on 15 March, 1989. A well-known industrialist Shri D. Bharne from Panaji was the Chief Guest.

GUSC organised a workshop on 16 March - to discuss the draft to amend the statutes relating to the formation of Students' Council. Shri Nandkumar Kamat, Shri Sameer Banodkar, Shri Sunil Shetye, Shri Sunil Prabhudessai. Shri Narendra Sawaikar and Smt. S.N. Pandit, Lecturer in Political Science participated in the Workshop.

The Post Graduate Students' Union

The elections of PGSU were conducted as provided under the R.O.3. of Goa University, and the following were elected.

Shri Tushar S. Anvekar	M.Sc.II	President(Chem.)
Shri Ashok Chodankar	M.Sc.II	Secretary(Chem.)
Shri Vijaykumar Ainaperkar	M.A.I	Sports & Cultural Secretary (Eco.)

A talk by Shri D.B. alias Mamasahab Kulkarni, President, Anti Dowry Movement Bombay, was organised on 8 Sept. 1988.

Students of P.G. Departments participated in the Inter-Collegiate Quiz Competition for U.N. Bene Trophy conducted by Shri Damodar College of Commerce, Margao on 14 December, 1988.

Two students participated in the Inter-University Elocution Competition for University in Maharashtra & Goa, on the subject of Anti-Dowry in Bombay on 12 January, 1989.

P.G. Departments Students participated in the 'Creation 88' organised by Dhempe College of Arts & Science and won the Trophies in Mime and What's the Good Word.

Shri Anand Lobo M.M.S.I. participated in the Inter-University of Poona as a part of the Celebration of Pt. Nehru on the subject of "Pt.Nehru-Architect of Modern India" in the Sangamner College, Sangamner, in the month of January, 1989.

P.G.S. participated in the 'Engineering College Annual Happenings' held from 9-11 February 1989.

A 'POET'S MEET' was organised in all the languages on 9 March, 1989. Shri Ramesh Veluskar - a prominent Konkani Poet was in the Chair.

P.G. students took part in the inter-collegiate Tournaments of Foot-ball, Cricket, Table Tennis and Badminton.

Inter-Departmental Sports Tournaments were organised in the month of February-March, 1989.

GUNIFEST - an annual get together of Post-Graduate Students' Union was organised on 17 March 1989. On occasion the prizes were distributed by the Chief Guest Shri S.V. Kurade, Ex-director of Education, Government of Goa.

2. Directorate of Sports.

The Year 1988-89, was indeed a significant year for the Department of Sports of the Goa University, as it was during this year that the Goa University went down in history inscribing its name, in the historical Sports Map of India by winning for the very first time, the coveted Sir Ashutosh Mukerjee Inter University Football Championship.

The Goa University earned renown not merely for winning the prestigious Championship, but also for the excellent and systematic organisation of the West Zone and Inter Zone Inter University Football Championships at Margao and Panaji respectively.

The various schemes of the Department of Sports, were implemented in a very systematic and effective manner, so as to boost the level of performance of our talented University Sportsmen and attain positive results at the Inter University Competitions:

A brief report of the activities undertaken during the year 1988-89 are as follows:-

I. ADVANCE SUMMER COACHING CAMP:

The department of Sports undertook to conduct its first ever University level Special Advance Summer Coaching w.e.f. 24th April to 15th May, 1988, at Damodar College Margao, in order to develop the level of performance of the University Sportsmen and to strengthen the University Teams, so as to ensure a creditable performance at the Inter University Competitions.

The coaching camp was residential in nature, wherein free lodging and boarding was provided to the trainees. The camp was conducted in the following Sports disciplines:-

<u>SR.NO</u>	<u>DISCIPLINE</u>	<u>NO OF BOYS</u>	<u>NO OF GIRLS</u>	<u>NO OF COACHES</u>
1.	Football	22	--	1
2.	Athletics	8	6	1
<u>Total</u>		<u>30</u>	<u>6</u>	<u>2</u>
Total No. of boys		30		
Total No. of girls		6		
Total No. of Coaches		2		
Total No. of Wardens		2		
<u>Grand Total</u>		<u>40 persons.</u>		

The Trainees attending the camp were imparted strenuous, systematic and scientific training, in the morning session from 6.00 to 8.00 a.m. and in the evening session from 3.30 to 6.30 p.m. by the NSNIS Coaches appointed in the Goa University viz Mr. Madhavan, Football Coach and Mr. Joy Joseph Athletics Coach, who spared no effort in bringing out the best from their trainees, during the 21 days camp.

The boys were accommodated at Damodar College and the girls were housed at Fatima Convent Margao. The Athletics camp was conducted at Loyola High School grounds whereas Footballers trained at the Rajendra Prasad Stadium.

Extreme care was taken to provide a nutritious diet to the trainees with a relishing menu comprising of proteins, fats, carbohydrates, vitamins etc.

Medical check ups were conducted regularly by the doctors from the Directorate of Health Services and necessary medical treatment was provided to the injured trainees at the Hospicio Hospital Margao.

Special lectures were delivered thrice a week, between 11.00 a.m. to 12.00 p.m. in the field of football, Athletics and other allied science like Sports, Medicine, Training Methods, Psychology of Sports, etc. by eminent personalities/experts such as Mr. Jarnail Singh Ex-Olympian and National Football Coach, Mr. Brahamanand Sancoalkar, International Football player, Health officers and others.

Audio visual aids such as video cassettes and films of International matches/Sports in Football, Athletics, Asian Games, World Cup, etc. were presented to the trainees during camp to acquaint them with the latest techniques/skills of the game.

The Summer Coaching Camp turned out to be a grand success and contributed immensely in improving the standard of the trainees.

A total expenditure of Rs.46,641.17 (Rupees forty thousand six hundred forty one and paise seventeen only) was incurred towards the conduct of the camp.

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II. ORGANISATION OF INTER COLLEGIATE TOURNAMENTS

As in the last year, this year also the Inter Collegiate Competitions for men and women were organised very smoothly in the below given Sports disciplines:-

- | | | |
|-----|----------------|---------------|
| 1. | FOOTBALL | (MEN & WOMEN) |
| 2. | TABLE TENNIS | (MEN & WOMEN) |
| 3. | VOLLEYBALL | (MEN & WOMEN) |
| 4. | KABADDI | (MEN & WOMEN) |
| 5. | BADMINTON | (MEN & WOMEN) |
| 6. | BASKETBALL | (MEN & WOMEN) |
| 7. | KHO KHO | (MEN & WOMEN) |
| 8. | HOCKEY | (MEN & WOMEN) |
| 9. | CRICKET | (MEN & WOMEN) |
| 10. | CHESS | (MEN & WOMEN) |
| 11. | ATHLETICS | (MEN & WOMEN) |
| 12. | TENNIKOIT | (WOMEN) |
| 13. | POWERLIFTING | (MEN) |
| 14. | BEST PHYSIQUE | (MEN) |
| 15. | WEIGHT LIFTING | (MEN) |
| 16. | JUDO | (MEN) |

The Inter Collegiate Cricket Tournament for Women which was introduced for the first time, was indeed successful, with the four teams playing for top honours in keenly contested matches.

The closing ceremony of each and every competition was organised in an auspicious manner by presenting special Trophies, medals and certificates to the winners of the competitions at the hands of eminent personalities in the field of education, games & sports.

A total of 1600 men and 600 women from various affiliated Colleges participated in the above competitions.

The III Goa University Athletic Meet was indeed a glamorous and memorable affair, with a total of 250 athletes, representing seventeen affiliated Colleges, led by elegant and beautiful flag bearers of Dhempe College, marching to the melodious tunes of the Goa Police Band, during the Inaugural Ceremony on 5th December, 1989 at the hands of Dr.S.K.Gandhe the dynamic and Sporting Registrar of the Goa University.

The three days Championship, was keenly contested by the cream of the University Level Athletes, vying with each other for Top honours and bettering a good number of existing records, in various track and field events.

The closing Ceremony at the hands of Shri Shakti Sinha, Secretary (Education) Government of Goa on 7th Dec, '89 with a colourful Jumble March Past of all participating athletes, marching together, in unity, friendship and fraternity, marked a nostalgic finale, to the three days Championship.

The melancholic sound of the bugle and the retreating beat of the drums, at the flag was being lowered, seemed to inspire the athletes to say "I shall be back again to face the challenges".

The organisation of the Championship was flawless and excellent, with the full support and co-operation of University Authorities, Principals, Physical Directors and Students of affiliated Units, Government Departments and all eminent Sports lovers of Goa.

A total expenditure of about 1,35,753.70 (Rupees one lakh thirty thousand seven hundred fifty three and paise seventy only was incurred towards the organisation of the above competitions.

III. PARTICIPATION IN INTER-UNIVERSITY COMPETITIONS:-

The University deputed five teams to participate in the Inter University Tournaments during the year 1988-89 based on their level of performance in the below given disciplines:-

1. Football (Men)
2. Volleyball (Men)
3. Cricket (Men)
4. Badminton (Men)
5. Athletics (Men)

The teams were selected by duly nominated selection Committees, comprising of experts and eminent personalities, from the respective Sports discipline, during the Inter-Collegiate Competitions and the Pre-University half day and residential Coaching Camps, Concentrated efforts in providing systematic and scientific training under expert coaches, during long term coaching camps, contributed immensely in raising the level of performance of the University teams, who gave a very good accounts of themselves at the Inter University Competitions.

The Football lads did Goa University and the State as a whole, proud, by bagging, for the very first time, the coveted Sir Ashutosh Mukerjee Inter University Football Championship, overcoming the stiff challenges of strong contenders from 27 Universities; for the West Zone and eight top notches of the country in the Inter Zone Inter University Football Championships, thus enabling Goa University to win a cash prize of Rs. 50,000/- (Rupees fifty thousand only) from the Association of Indian Universities.

The General performance of the University teams at Inter University Competitions is as under:-

<u>Sr.No.</u>	<u>Discipline</u>	<u>Performance</u>
1.	Football (Men)	Winners of West Zone, Inter Zone Inter University Championship.
2.	Volleyball (Men)	Defeated Sukhadie, University by 3-0 and lost to the tough and robust Ajmer University in the second round by 3-0 sets.
3.	Cricket (Men) (Men)	Gave a tough fight to Shivaji University, in their maiden appearance and lost by a narrow margin of 70 runs.
4.	Badminton (Men)	Reached pre-quarter finals in West Zone tournament.
5.	Athletics (Men)	Melwin Dias reached finals in 200 mts run and finished 8th. 4 x 400 Relay the team finished 5th in Semi-finals. 4 x 100 m. Relay the team stood 5th in the first round.

A total expenditure of about Rs.90,000/- (Rupees Ninety thousand only) was incurred towards the deputation of the above teams, for the Inter University Competitions, towards railway fare, D.A. to players, Manager, Coach, allocation of Sports Kit/Uniforms, medical facilities and other miscellaneous expenses.

IV. ORGANISATION OF WEST ZONE & INTER UNIVERSITY FOOTBALL TOURNAMENTS.

Although a newly established and up coming University, the Goa University, undertook the challenge of organising the first ever West Zone and Inter Zone Inter University Football Championships, at Margao and Panaji respectively.

The West Zone Championship was organised at Rajendra Prasad Stadium, Margao, w.e.f. 21st to 30th October, 1989 and the Inter Zone Championship was held at Football Stadium Campal, Panaji, w.e.f. 1st to 7th November, 1989.

A total of 28 teams from various Universities participated in the West Zone Championship at Margao whereas 8 top teams consisting of winners and runners up of the four zones, participated in the Inter Zone Championship at Panaji.

Utmost care was taken to ensure the successful and systematic organisation of both these prestigious Championships, by setting up a Special Organising Committee, under the Chairmanship of Dr. B. Sheik Ali, the enthusiastic and Sporting Vice-Chancellor, including Dr. S. K. Gandhe, the dynamic Registrar and other eminent personalities from the field of Sports and from Football in particular, who selflessly rendered their valuable guidance and whole hearted co-operation in planning and organising these prestigious Championships in a befitting manner.

The Inaugural and closing Ceremonies of both the Championships were indeed impressive, with the 3MTR Military Band, in attendance at Margao and the Police Band adding glamour to the show at Panaji.

Shri Francisco Monte Cruz, Hon. Minister of Sports, declared the West Zone championship open and presented Trophies to the Winners at the Closing Ceremony.

The Inter-Zonal Championship at Panaji, was inaugurated by H.E. Dr. Gopal Singh Governor of Goa; whilst Shri Pratapsing Rane, Hon. Chief Minister of Goa presented trophies to the winners and declared the Championship closed.

A total expenditure of about Rs. 70,000/- (Rupees seventy thousand only) was incurred towards the organisation of the West Zone Championship and a total of Rs. 72,000/- (Rupees Seventy two thousand only) was incurred for the Inter Zone Championship.

The organisation of these prestigious championships were indeed a grand success, with the Goa University annexing the titles in both the Championships.

V. ORGANISATION OF SEMINAR ON SPORTS MEDICINE:

The department of Sports of the University organised the first ever Seminar on Sports Medicine, for the benefit of the Physical Directors, Coaches and technical staff of the University and its affiliated units, under the expert guidance of Dr. Ashok Ahuja, Head of the Department of Sports Medicine and Research, Netaji Subhash National Institute of Sports, Patiala.

The Seminar which was inaugurated by Dr. B. Sheik Ali, Vice-Chancellor, Goa University, was largely attended by heads and staff of various faculties of the University, eminent Sports persons, and other technical staff.

The elaborate talk by Dr. Ahuja with relevant slides and discussions that followed were extremely beneficial to the august members present in promoting modern Sports, which are highly scientific in nature.

VI. FUNCTION FOR PRESENTATION OF TROPHIES/SHIELDS AND CASH AWARDS.

The highlight of the activities undertaken during the academic year 1988-89, was the organisation of a special function at the Goa University premises, to felicitate the outstanding University Sportsmen who earned laurels at the Inter Collegiate and Inter University Competitions, by presenting Rolling Shields donated by eminent Sports lovers, to the affiliated Institutions that won the 1988-89 Inter Collegiate Competitions Gold Bronze and Silver medals were also presented to the teams/players winning the team/individual Competitions.

Cash awards to the tune of about Rs. 16,000/- (Rupees sixteen thousand only) were presented to the members of the victorious Football team @ Rs. 800/- each and Rs. 1,000/- to the winner of the bronze medal in Judo.

The Trophies, medals and cash awards were presented at the hands of Shri Francisco Monte Cruz, Hon. Minister for Sports, who was the Chief Guest and graced the occasion. Dr. B. Sheik Ali, Vice Chancellor presided.

The function which was largely attended by eminent sports lovers, heads of institutions, Sports Authority of Goa, Government Departments and over 500 Sportsmen and Sportswomen of affiliated Colleges, was indeed glamorous and well organised.

An expenditure of about Rs.40,000/- (Rupees forty thousand only) was incurred towards the purchase of Trophies, Shields/medals, including the cash awards and organisation of this unique function.

VII. SPORTS MATERIAL: In order to provide the much needed systematic training to the University teams with the standard Sports equipment as per the technical requirements of the respective game/sport, an expenditure of about Rs.45,000/- (Rupees forty five thousand only) was incurred towards purchase of consumable and non-consumable Sports equipment, which was duly utilised for the Summer Coaching - Camps, pre-University Coaching camps and other University athletic camps organised in affiliated colleges.

CONCLUSION

The implementation of the existing schemes and new schemes in a systematic and smooth manner, keeping in mind the rising demands of modern Sports, which are highly scientific in nature, proved extremely beneficial and effective in rapidly raising the level of performance of the talented University level Sportsmen, as is evident, from the scintillating performance of the University Football team, that bagged the All India Football Championship, in its maiden appearance and the creditable performance of our teams at the Inter University Competitions.

Provision of standard playground as per technical requirements of the game, such as a 400 mts. cinder track, conditioning halls, Indoor games hall and adequate Sports equipment, to the Talented University sportsmen is of utmost importance, if we are to achieve positive results, at the National and International competitions, which are highly scientific and competitive in nature.

Concentration in selected Sports disciplines which are popular amongst the Goans and organisation of long term coaching camps, for maintaining continuity in training, is another important aspect to be considered in promoting University level Sports, in the right way to ensure positive result.

3. DIRECTORATE OF EXTRA-MURAL STUDIES AND OF EXTENSION SERVICE

The activities of this Directorate during the year under review were briefly as follows :

On Wednesday, the 13th of April, 1988, Dr. P. Wader, Professor and the Head of the Department of Marathi, Goa University, delivered a lecture at Pedne town, to nearly eighty students and their parents, on the role of Shri Samarth Ramdas played in imparting social education to the people of Maharashtra .

2. On Sunday the 24th April a free medical camp was held at Anjuna with the help of jaycees of Anjuna. Ten doctors (a few from the Health Department) attended this camp and medically reexamined and treated the people . Dr. David Menezes the Director of Cosme Mathais Menezes, Panaj and Mr. Gidwani the Managing Director of Goa Anti-Biotech gave free medicines. Not less than 180 patients attended this camp. Shri Dayanand Narvenkar the Speaker of Goa Legislative Assembly paid a kind visit to the camp.

This camp was successful because of great efforts put by Dr. Joe D'Souza (Department of Microbiology) and Shri Prakash Gadekar, the President of the Jaycees of Anjuna.

3. On Saturday the 30th April about thirty young men belonging to Yuvak Pragati Kendra , a non-political organisation founded at Vidarbha by Shri Agashe, visited Nerul and Candolim - two fishing villages in Goa to study the life of the fisherfolk in Goa.

4. Throughout July digging of pits by the College N.S.S. volunteers on Goa University campus for Tree Planting on the Vana Mahotsava Day (Aug-15, 1988) was undertaken.

5. Vana Mahotsava Day at Anjuna on Sunday the 17th of July was organised 150 trees were planted.

6. Attempts were made to associate with the Adult Education Centres at Tonca and Chimbhel during August, 1988.

7. Dr. Gopalrao Mayenkar, Principal of Bandekar Commerce College, Assagao, delivered a lecture on "The Relevance of Education to the Social Needs " at New English High School, Mandrem, Pedne Goa on Saturday July, 30, 1988.

8. Dr. Tanaji Halarnkar delivered a lecture on Monday August 1, 1988 "Social Development in Goa from 1510 to this Date" at Smt. Hirabai Talaulicar High School, Sansrdem, Sanguem. The students and the teachers of Barabhumi High School, Tamdi Surla.
9. Vanamahotsava Day was celebrated on August 15, 1988. More than one hundred trees were planted by one hundred students from seven colleges.
10. Shri Shyam Bhohe Hon. Co-ordinator of the Directorate of Extra-Mural Studies delivered a lecture on "Social Changes" at Mark Fernandes High School, Calangute, on Saturday, 20th August, 1988.
11. On Saturday, 20th August, 1988 in the evening at 4.00 p.m. Dr. Ashok Joshi (Department of English, Goa University) delivered a lecture at Ponda on "Ways of studying English Literature" at Ponda Education Society's College at Farmagudi.
12. On Thursday, September 8, 1988 (International Literacy Day) a cultural programme was staged by the students and teachers of Adult Education Centres at Chimbel, Tiswadi. The programme was organised by Extension Services of Goa University and A.D. E.I. office, Tiswadi. Shri Salelkar, Asstt. Director, Adult Education, Shri Mohan Ranade celebrated freedom fighter, Shri Govind Bhohe were important persons who among many others attended the programme.
13. Dr. A.V. Afonso (Department of Philosophy, Goa University), delivered a lecture on Marxist Philosophy at the P.E.S. College of Arts and Science Farmagudi on Monday-September 26, 1988 at 4.00 p.m.
14. Dr. K.S. Krishnamurthy, Senior Scientist, TIFR, Bombay, delivered a lecture on Astrophysics at St. Xavier's College Mapusa, on Thursday 29, at 11.00 a.m.
15. A successful philatelic workshop was organised on Wednesday January 4, 1989 from 3.00 p.m. to 5.00 p.m. at the Institute Menezes Braganza, Panaji, in collaboration with Goa Philatelic and Numismatic Society. Shri V.R. Narvenkar, Secretary G.P.N.S. guide the participants.

16. On Sunday ,January 15, alongwith Dr. Carmo Azavedo, I accompanied Prof. (Mrs.) Frances Flores Morillo, Associate Professor of Humanities and Associate Dean of the College of Arts and Letters, Department of Humanities, University of Philippines, going around churches in Bardez in the socio-cultural study of the Artt forms of churches in Goa.

17. As Chief Guest today on Thursday, January 19, I participated in the Prize Distribution function of People's High School Panaji. I talked to the students regarding the social Service Scheme under the Extension Services of Goa University.

18. Today on Tuesday, January 31, Dr. S. Mande, Professor and Head of the Department of Physics, Goa University delivered a lecture on "Radiation and Matter" at P.E.S. college at Farmagudi.

19. Throughout the month of February and March 1989 I helped Shri George Vettikunnel Research Officer, Project on Drug Abuse Extension Survey, sponsored by Welfare Ministry, G.O.I. and carried out by T.I.S.S. Bombay ,88 in his research work on Drugs Dependency in Goa, by taking him around villages in Bardez and by introducing him to Sarpanches, doctors, Principals, Social workers, etc.

4. DIRECTORATE OF NATIONAL SERVICE SCHEME

Aims & Objectives :- The overall objectives of the National Service Scheme, as envisaged originally, was extension of service to the Community offered by the students while undergoing instruction in an educational institution. It was sought to create the social consciousness in the students and provide them with the opportunity to work with the people around the educational campuses creatively and constructively and to put the education they received to concrete social use. It has been felt that the primary aim of the scheme is to enable the students to elevate their personality and experience through community service. Its end use is the improvement of personality while service to the community is a means through which such improvement is sought be achieved. The objective of the scheme, as restated, is therefore, development of the personality of students through community service. This objective is sought to be achieved of enabling the students to :

- i) Understand the community in which they live.
- ii) Understand themselves in relation to their community.
- iii) Identify the needs and problems in the community in the solution of which they are involved.
- iv) Develop among themselves a sense of social and civic responsibility.
- v) Apply their education in finding practical solutions to individual and community problems.
- vi) Develop competence required for group living and sharing responsibilities.
- vii) Gain skills in mobilising community participation.
- viii) Acquire leadership qualities and democratic attitude.
- ix) Develop capacity to meet emergencies and natural disasters and practice national integration.

The motto

The motto or watch word of the N.S.S. is "NOT ME BUT YOU". This expresses the essence of democratic living and upholds the need for selfless service and appreciations of the other man's point of view and also to show consideration for fellow human beings. It underlines that the welfare of an individual is ultimately dependent on the welfare of society as a whole. Therefore, it should be the aim of the N.S.S. to demonstrate this motto in its day-to-day programme.

With a view to keep the above objectives in mind, the Goa University has enrolled 4020 volunteers from different colleges in Goa for the regular activities and 1075 for special camping programme.

Regular activities undertaken during the year 1988-89 are as follows :

- 1) The tree plantation project was taken up at Goa University campus, Dona Paula in the month of July/August, about 600 pits were prepared with the help of N.S.S. Volunteers from the various colleges in Goa.
- 2) National Integration Youth Camp sponsored by Ministry of Human Resources Development, Department of Youth Affairs and Sports, Government of India and organised by Directorate of Sports and Youth Affairs, Government of Goa, in collaboration with NSS unit of Goa University from 25th October to 3rd November, 1988 at Farmagudi, Ponda, Goa.
- 3) First Leadership Training Programme for NSS volunteers in collaboration with Tata Institute of Social Sciences, Bombay from 16th to 19th January, 1989 at P.E.S. College, Farmagudi, Goa, admitted about 50 participants from various colleges in Goa. About 5 resource persons were invited to deliver lectures to the volunteers.

Other regular activities are as follows :

- 1) Tree plantation at different places
- 2) Assistance provided in the House for the Aged.
- 3) Blood Donation.
- 4) Campus activities.
- 5) Programme of Fundamental Literacy
- 6) Conduct of Socio Economic Survey in different villages & slums
- 7) National Youth Week Celebration
- 8) Assistance in the school libraries for arranging the books, cleaning, etc.
- 9) Archeological project
- 10) Organised cycle rally as a part of NIP.
- 11) Anti dowry campaign through lectures, documentaries & posters.
- 12) Supply of text books at concessional rates
- 13) Traffic control with the help of Traffic Police.
- 14) Collection of funds for cancer society, T.B.
- 15) Our two volunteers have participated in Republic Day Parade 1989 at New Delhi.
- 16) Many colleges successfully conducted the special camps in their adopted villages during October and December vacation.

A N N E X U R E S :

EXPENDITURE OF GOA UNIVERSITY

(Rs. in lakhs)

Budget Estimates (1988-89)			Revised Estimates (1988-89)			Actuals (1988-89)			Budget Estimates (1989-90)		
Recurring	Non- recurring	Total	Recurring	Non- recurring	Total	Recurring	Non-rec- curring	Total	Recurring	Non- recurring	Total
<u>PLAN :</u>											
139.67	582.29	721.96	99.85	474.56	574.41	88.66	435.38	524.04	145.24	515.44	660.68
<u>NON-PLAN :</u>											
35.37	4.50	39.87	40.80	2.50	43.30	39.41	16.66	56.07	37.33	5.50	42.83

LIST OF THE MEMBERS OF THE EXECUTIVE COUNCIL

- | | | |
|---|---|----------------------------------|
| 1. Vice-Chancellor | - | Chairman
(Ex-officio) |
| 2. Dr. P.N. Srivastava
Member, Planning Commission,
Rajasa Bhawan, New Delhi. | - | Member |
| 2. Justice Dr. G.F. Couto,
Judge, High Court of Judicature
of Bombay, Goa Bench,
Panaji-Goa. | - | Member |
| 3. Shri Shivanand V. S. Salgaocar
SALGAOCAR HOUSE,
Vasco-da-Gama. | - | Member |
| 4. Dr. G.J.S. Abraham,
Dean, Goa Medical College,
Panaji-Goa. | - | Member |
| 6. Shri A.J.S. Sahney,
Secretary to Governor of Goa,
Raj Bhawan,
Dona Paula, Goa. | - | Member |
| 7. Dr. Idi H. Doctor
Dean, Faculty of Arts,
Humanities & Social Sciences,
Goa University,
Bambolim. | - | Member |
| 8. Shri S.A. Dewaid
Dean, Faculty of Engineering
& Architecture,
College of Architecture,
'Savitri Niwas',
Miramar, Goa. | - | Member |
| 9. Shri M.S. Kamat
Principal,
M.E.S. College of Arts &
Commerce,
Zuarinagar. | - | Member |
| 10. Dr. A.K. Pandey
Professor of Hindi,
Goa University,
Bambolim. | - | Member |
| 11. Secretary (Finance),
Govt. of Goa,
Secretariat,
Panaji-Goa. | - | Member
(Ex-officio) |
| 12. Secretary (Education)
Govt. of Goa,
Secretariat,
Panaji-Goa. | - | Member
(Ex-officio) |
| 13. Registrar,
Goa University. | - | Member-Secretary
(Ex-officio) |

LIST OF THE MEMBERS OF THE ACADEMIC COUNCIL

- | | | |
|---|---|--------------------------|
| 1. The Vice-Chancellor,
Goa University. | - | Chairman
(Ex-officio) |
| 2. Dean,
Faculty of Pure Sciences | - | Member
(Ex-officio) |
| 3. Dean,
Faculty of Applied Sciences | - | Member
(Ex-officio) |
| 4. Dean,
Faculty of Medicine | - | Member
(Ex-officio) |
| 5. Dean,
Faculty of Arts, Humanities &
Social Sciences. | - | Member
(Ex-officio) |
| 6. Dean,
Faculty of Engineering &
Architecture. | - | Member
(Ex-officio) |
| 7. Dean,
Faculty of Law | - | Member
(Ex-officio) |
| 8. Dean,
Faculty of Fine and
Performing Art, | - | Member
(Ex-officio) |
| 9. Dean,
Faculty of Education. | - | Member
(Ex-officio) |
| 10. Dean,
Faculty of Commerce &
Business Administration. | - | Member
(Ex-officio) |
| 11. Dr. C. Mande
Professor & Head,
Department of Physics,
Goa University,
Bambolim. | - | Member |
| 12. Dr. M.A. Shahi
Prof. & Head,
Dept. of Economics,
Goa University,
Bambolim. | - | Member |
| 13. Dr. B.V. Nemade,
Prof. & Head,
Dept. of English,
Goa University, Bambolim. | - | Member |
| 14. Dr. P.B. Wader,
Prof. & Head,
Dept. of Marathi,
Goa University, Bambolim. | - | Member |
| 15. Dr. B.S. Shastri,
Prof. & Head,
Dept. of History,
Goa University,
Bambolim. | - | Member |

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|-----|--|---|--------|
| 16. | Shri D.S. Bhende
Principal,
Dempo Charities Trust's
Dempo College of Commerce &
Economics, Altinho,
Panaji-Goa. | - | Member |
| 17. | Shri G.V. Nadkarni
Principal,
Dempo Charities Trust's
Dempo College of Arts &
Science, Miramar, Panaji. | - | Member |
| 18. | Shri D.V. Borkar
Principal,
Shree Damodar College of
Commerce & Economics,
Margao. | - | Member |
| 19. | Dr. A.K. Heblekar
Principal,
P.E.S. College of Arts &
Science,
Farmagudi, Ponda. | - | Member |
| 20. | Shri G.G. Mayekar
Principal,
V.N.S. Bandekar's College
of Commerce, Mapusa. | - | Member |
| 21. | Dr. V.N. Kamat Dalal,
Reader in the Department of
Chemistry, Goa University. | - | Member |
| 22. | Dr. A.V. Afonso
Reader in the Department of
Philosophy,
Goa University. | - | Member |
| 23. | Shri V.V. Kamat
Lecturer in the Department of
Computer Science & Technology,
Goa University. | - | Member |
| 24. | Major R. De Sylva,
Lecturer in the Department of
Business Administration,
Goa University. | - | Member |
| 25. | Dr. B.R. Mishra,
Lecturer in the Department of
Hindi, Goa University. | - | Member |
| 26. | Dr. K.P. Kamat
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Goa Dental College & Hospital,
Bambolim. | - | Member |

27. Dr. H.G. Dubhashi - Member
Asstt. Professor
Goa Medical College,
Panaji.
28. Shri G.K. Pacholi - Member
Professor,
College of Engineering, Goa,
Farmagudi.
29. Shri P.K. Onkar - Member
Lecturer,
Smt. P. Chowgule College
of Arts & Science,
Margao.
30. Shri K.M. Sadre, - Member
Lecturer,
St. Xavier's College of
Arts & Science,
Mapusa.
31. The Director - Member
National Institute of
Oceanography
Dona Paula, Goa.
32. Dr. J.D. Sethi, - Member
Ex-Member, Planning Commission,
49/18 East Patel Bagh,
New Delhi - 110 008.
33. Dr. P.N. Chopra, - Member
Historian,
C/2, Kaveri Apartments,
Alkananda,
New Delhi - 110 019.
34. Dr. S.S. Johl, - Member
Professor of Eminence,
Punjab Agricultural University,
Ludhiana, India.
35. The Librarian - Member
Goa University. (Ex-officio)
36. The Registrar - Member- Secretary
Goa University. (Ex-officio)

LIST OF THE MEMBERS OF THE COURT

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Goa University. - Chairman
(Ex-officio)
- 2) Dr. S.G. Deo
Dean, Faculty of
Pure Sciences,
Goa University. - Member
- 3) Shri M.G. Joshi
Dean, Faculty of Fine Art,
Goa College of Art,
Panaji-Goa. - Member
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Nimlala Institute of Education,
Altinho, Panaji, Goa. - Member
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Miramar, Panaji, Goa. - Member
- 6) Dean, Faculty of Commerce &
Business Administration,
Goa University. - Member
- 7) Dr. T.S.S. Rao
Professor of Biotechnology,
Department of Marine Science,
Goa University, Bambolim. - Member
- 8) Dr. R.A. Sinari
Professor of Philosophy
Department of Philosophy
Goa University, Bambolim. - Member
- 9) Dr. O.J.F. Gomes
Professor of Konkani,
Department of Konkani,
Goa University, Bambolim. - Member
- 10) Dr. (Miss) S. Mavinkurve
Professor of Microbiology,
Goa University, Bambolim. - Member
- 11) Dr. A.K. Pandey
Professor of Hindi,
Department of Hindi,
Goa University, Bambolim. - Member
- 12) Shri G.V. Nadkarni
Principal,
Dempo Charities Trusts'
Dhempe College of Arts & Science,
Miramar, Panaji-Goa.

- 13) Shri Joseph Emanuel
Principal,
Goa College of Pharmacy,
Panaji-Goa. - Member
- 14) Shri V.R. Shirgurkar
Principal,
Smt. Parvativai Chowgule
Cultural Foundation's
College of Arts & Science,
Margao-Goa. - Member
- 15) Shri A.G. Junde,
Principal,
Goa Vidya Prasarak
Mandal's College of
Commerce & Economics,
Ponda-Goa. - Member
- 16) Fr. N. Pereira
Principal,
St. Xavier's College of
Arts & Science,
Mapusa-Goa. - Member
- 17) Dr. M.J. Audi
Reader,
Department of Political
Science, Goa University,
Bambolim, Goa. - Member
- 18) Dr. J.S. Budkuley
Lecturer,
Department of Chemistry,
Goa University,
Bambolim, Goa. - Member
- 19) Shri S.R. Phal
Reader,
Department of Sociology,
Goa University,
Bambolim, Goa. - Member
- 20) Shri G.K. Kelkar
Lecturer,
Dhempe College of
Arts & Science,
Miramar, Panaji, Goa. - Member
- 21) Dr. R.A.S. Dhume
Lecturer,
Dhempe College of
Arts & Science,
Miramar, Panaji-Goa. - Member
- 22) Dr. M.S. Usgaonkar
Type IV, Block-B, Quarter No. 5,
Goa Medical College Complex,
Bambolim, P.O. Santa-Cruz, Goa. - Member

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Lecturer,
Smt. Parvatibai Chowgule
Cultural Foundation's
College of Arts & Science,
Margao-Goa.
- 24) Dr. Ulhas G. Nachikolkar - Member
Professor,
Goa Medical College, Panaji,
Panaji-Goa.
- 25) Shri R.T. Virkar - Member
Lecturer,
Shree Damodar College of
Commerce & Economics,
Margao-Goa.
- 26) Shri G.K. Pacholi - Member
Professor,
College of Engineering, Goa,
Farmagudi, Ponda-Goa.
- 27) Shri Varkey Jacob - Member
Lecturer,
V.N.S. Bandekar College of
Commerce,
Khorlim, Mapusa, Goa
- 28) The President - Member
C/o DCI, Pharmaceutical
Pvt. Ltd.,
P.O. No. 42,
Margao-Goa.
- 29) The President, - Member
Nirmala Education Society,
Nirmala Institute of Education,
Altinho, Panaji, Goa.
- 30) The Chairman, - Member
University Students' Council
Goa University,
Bambolim, Goa.
- 31) Shri Rashpal Malhotra - Member
Centre for Research in Rural &
Industrial Development,
2A, Sector-19A, Madhya Marg,
Chandigarh - 160 019 (India).
- 32) Dr. Bhagat Singh, - Member
Ex-Vice Chancellor
Punjabi University,
134, A, Punjabibag,
Patiala (Punjab).
- 33) Shri Hari Jaisingh -- Member
Editor,
Indian Express Newspapers,
(Bombay) Pvt. Ltd.,
Express Towers,
Nariman Point,
Bombay.

- 34) Smt. Kishori Amonkar - Member
Vibhav Apartments,
Prabhadevi,
Bombay - 25.
- 35) Shri A.K. Wasnik - Member
Chief Officer,
Margao Municipal Council,
Margao-Goa.
- 35-a) Shri Chandrakant Velip - Member
Labour Commissioner's Office,
Junta House,
Panaji-Goa.
- 36) Smt. T. Almeida - Member
Headmistress,
Monivikas High School,
Margao-Goa.
- 37) Smt. Anju Auduth Timblo - Member
C/o Hotel Cidade de Goa,
Dona Paula, Panaji-Goa.
- 38) Shri G.D. Dangi - Member
Deputy Registrar,
Goa University,
Bambolim.
- 39) Registrar - Member Secretary
Goa University, (Ex-officio)
Bambolim, Goa.

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LIST OF THE MEMBERS OF PLANNING BOARD

1. Vice-Chancellor
Goa University. - Chairman
(Ex-officio)
2. Prof. M.S. Agwani,
Vice-Chancellor,
Jawaharlal Nehru University
New Mehrauli Road,
New Delhi. - Member
3. Dr. S.G. Deo - Member
Dean, Faculty of
Pure Sciences,
Goa University.
- 4) Dr. V.A. Pai Panandikar, - Member
Director,
Centre for Policy Research,
Dharma Marg, Chanakya Puri,
New Delhi - 110 021.
- 5) Prof. R.P. Bambah, - Member
Vice-Chancellor,
Punjab University,
Chandigarh - 160 014.
6. Registrar, - Member-Secretary
Goa University. (Ex-officio)

ANNEXURE -VI

List of Officers of the Goa University

- 1) Visitor - His Excellency, Dr. Gopal Singh,
Governor of Goa
- 2) Chancellor - Dr. Nagendra Singh,
M.A. (Camb.), B.Litt. (Dub),
Ph.D. (Cal.), LL.D. (Camb., Dub.),
D.Sc. (Moscow), DCL (Delhi),
D.Litt. (Bihar)
(Died on 11-12-88).
- 3) Vice-Chancellor - Dr. B. Sheik Ali,
M.A. (Alig.); Ph.D. (Alig. & London)
- 4) Registrar - Dr. S.K. Gandhe,
B.Com., M.A., M.Sc., Ph.D.
- 5) Finance Officer - Shri C.H. Noronha
- 6) Controller of Examination. - Shri V.G. Jagdale
- 7) Deputy Registrar - Shri G.D. Dangi
- 8) Assistant Librarian - Shri V.R. Navelkar
- 9) System Analyst - Shri D.P. Nayak
- 10) Executive Editor - Dr. T.D. Halarnkar
- 11) Assistant Registrar (Law) - Shri U.V.K. Shankhwalkar
- 12) Assistant Registrar - Shri C.J.R. Diniz
- 13) Assistant Registrar - Shri A.G. Khanolkar

Deans of Faculties

- 1) Dr. S.G. Deo - Pure Sciences
- 2) Dr. G.J.S. Abraham - Medicine
- 3) Shri M.N. Samant - Law
- 4) Dr. A.H. Doctor - Arts, Humanities & Social Sciences.
- 5) Dr. M.G. Joshi - Fine Art.
- 6) Dr. S.A. Jawaid - Architecture & Engineering
- 7) Dr. T.S.S. Rao - Applied Sciences
- 8) Dr. (Miss) Jennifer Fonseca - Education
- 9) Dr. S.M. Maheshwari - Commerce & Business Administration
(upto 15th October, 1988)

ANNEXURE - VII

LIST OF AFFILIATED COLLEGES AND RECOGNISED INSTITUTIONS IN GOA

I. Colleges of Arts & Professional

- 1.1. Dhempe College of Arts & Science, Miramar, Panaji, Goa - 403 001.
- 1.2. Smt. Parvatibai Dempo Cultural Foundation's College of Arts & Science, Margao - Goa 403 101.
- 1.3. St. Xavier's College, Mapusa, Goa - 403 525.
- 1.4. Srinivasa Sinai Dempo College of Commerce & Economics, Altinho, Panaji-Goa 403 001.
- 1.5. Carmel College for Women, Nuvem, Salcette, Goa - 403 001.
- 1.6. Murgaoon Education Society's College of Arts & Commerce, Zuarinagar, Goa.
- 1.7. Shree Damodar College of Commerce & Economics, Margao -Goa 403 601.
- 1.8. V.N.S. Bandekar College of Commerce, Khorlim, Mapusa Goa - 403 529.
- 1.9. Goa Vidyaprasarak Mandal's College of Commerce & Economics, Ponda, Goa - 403 405.
- 1.10. Ponda Education Society's College of Arts & Science, Farmagudi, Ponda, Goa - 403 405.
- 1.11. Naval Academy, Mandovi, Verem, Goa, - 403 009.
- 1.12. Cuncohim Education Society's College of Arts & Science, Cuncohim, Salcete, Goa.
- 1.13. Govt. College of Arts, Science & Commerce, Sanquelim-Goa.
- 1.14. Goa College of Home Science, Bambolim-Goa.

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II. Professional Colleges

- 2.1. Goa Medical College, Panaji, Goa - 403 001.
- 2.2. Goa College of Pharmacy, Panaji, Goa - 403 001.
- 2.3. College of Engineering, Goa Farmagudi, Goa - 403 405.

National Systems Unit
 Education Institute of Education
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 DOC. No.
 Date..... 27/7/20

- 2.4. Nirmala Institute of Education,
Altinho, Panaji-Goa.
- 2.5. Goa College of Fine Art,
Altinho, Panaji-Goa - 403 001.
- 2.6. Mahadeorao Salgaonkar College of Law,
Miramar, Panaji, Goa - 403 001.
- 2.7. Govind Ramnath Barve College of Law,
Borda, Margao, Goa - 403 601.
- 2.8. Goa Dental College & Hospital,
Bambolim, Goa - 403 005.
- 2.9. College of Architecture,
'Savitri Niwas', Miramar,
Panaji, Goa - 403 001.
- 2.10. Kala Academy's Goa College of Music,
Panaji, Goa - 403 001.

III RECOGNISED INSTITUTIONS

- 3.1. Xavier Centre of Historical Research,
Porvorim, Bardez-Goa.
- 3.2. Goa Institute of Management Studies,
Miramar, Panaji-Goa.
- 3.3. Institute of Management Training & Research,
St. Joaquim Road, Margao-Goa.
- 3.4. National Institute of Oceanography,
Dona Paula, Goa - 403 004.
- 3.5. Directorate of Archives,
Government of Goa,
Panaji-Goa 403 001.