

POLICY NOTE

DEMAND NO. 20 - HIGHER EDUCATION
2009– 2010

**புத்தகத்தில் உலகத்தைப் படித்தால் அறிவு
செழிக்கும்!**

**உலகத்தையே புத்தகமாக படித்தால் அனுபவம்
தழைக்கும்!**

- டாக்டர் கலைஞர் மு.கருணாநிதி

INTRODUCTION

Education has continued to evolve, diversify and extend its reach and coverage since the dawn of human history. Every country develops its own system of education to express and promote its unique socio-cultural identity and also to meet the challenges of the development that are taking place from time to time. By the formulation and implementation of various schemes by this Government towards the development of Higher Education, Tamilnadu has become a forerunner in the field of higher education at the National level.

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1.2 Expanding the access to higher education to all at affordable cost and ensuring the quality of education are the aims of this Government. In order to achieve these aims, this Government is implementing various schemes. The schemes were formulated in consultation with Vice-Chancellors, Educationists and other Stake holders of Higher Education. The reforms which were brought in Higher Education for the last three years are appreciated by educationists as positive development.

1.3 In order to increase the coverage of Higher Education to all to pursue Higher Education and to give equal opportunity to the youth from socially and educationally backward class of people and rural areas, Arts & Science Colleges were started at Mettur, Valparai, Perambalur, Orathanadu, Surandai, Kulithalai and Lalgudi in public sector.

1.4 Prior to 1947, Guindy College of Engineering is the only Engineering College established by Government. Guindy Engineering college was established in the year 1859. Alagappa College of Technology, Chennai was started during the year 1945. After independence, Madras Institute of Technology, Chrompet was started during the year 1949. Government College of Technology, Coimbatore and Alagappa Chettiyar College of Engineering and Technology, Karaikudi were established during the year 1952. Government College of Engineering, Salem was started during the year 1966. Government College of Engineering, Tirunelveli was started during the year 1981. Thanthai Periyar Government Institute of Technology, Vellore was started during the year 1990. Government Engineering College, Bargur was started

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during the year 1994. Bharathidasan Institute of Technology, Trichy was started during the year 1999. Of these, Alagappa College of Technology, Chennai, Madras Institute of Technology, Chrompet and Alagappa Chettiyar College of Engineering and Technology, Karaikudi were started as private colleges and subsequently converted as Government Colleges. The number of engineering colleges started by Government after independence was only 6. But during the year 2008-2009, new Engineering Colleges were started by the respective Anna Universities at Tindivanam, Villupuram, Panruti, Thirukkuvilai, Ramanathapuram and Ariyalur. In addition to this, as announced in the 2009-2010 Budget Speech, new Engineering Colleges are being started by the respective Anna Universities in the districts of Thiruvannamalai, Thanjavur, Dindigul, Thoothukudi and Kanyakumari. Thus the establishment of 11 new Engineering Colleges through the respective Anna Universities in a period of two years is really an historic achievement.

1.5 In order to increase the gross enrolment of students in higher education, the following steps have been taken by the Government:-

- ❖ The Common Entrance Test for admission to Professional Courses was abolished during 2007-2008 by the enactment of "Tamil Nadu Admission in Professional Educational Institutions Act, 2006" (Tamil Nadu Act 3/2007). This enabled the students belonging to rural areas and economically weaker sections to join professional courses in large number.

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- ❖ Due to the sustained efforts of the Government, 65% of the Engineering seats in Non-minority institutions and 50% seats in minority institutions have been allotted through Single Window System of Anna University, Chennai. This has enabled the poor and meritorious students to join professional courses at an affordable cost.
- ❖ The minimum marks prescribed for the admission in engineering colleges have been reduced for all categories of students from the year 2007-2008, which enabled more students from rural areas to join professional courses.
- ❖ Government have introduced counselling by single window system for B.Ed., admission in all Government and Government aided Colleges of Education during the year 2007-2008. By this single window counselling system, the admission into B.Ed., courses were made in a transparent manner so that the meritorious students were benefited.
- ❖ Single window system through counselling is also introduced for admissions in Government Arts and Science Colleges from the academic year 2007-2008. Students and parents have welcomed this system.

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- ❖ Shift system has been introduced in Under Graduate courses in Government Arts & Science Colleges from the year 2006-2007 onwards. Due to this, the students intake in Under Graduate course has increased considerably.
- ❖ It has been decided to introduce shift system in Government Polytechnic Colleges from the year 2009-2010 onwards. Accordingly, orders have been issued for the implementation of this shift system in 14 Government Polytechnic Colleges in the first phase.

1.6 In order to ensure the access to higher education to the rural students and to the youth from economically weaker sections, the following steps have been taken by the Government:-

- All Self supporting courses in Govt. Engineering Colleges and Arts & Science Colleges have been converted into regular courses. This has enabled the students from poorer sections of the people to pursue higher education in large number.
- All students studying in U.G. courses in Govt. and Govt. Aided Arts & Science Colleges are exempted from payment of tuition fees from the year 2007-2008 onwards. More than 3 lakh students are benefited every year under this scheme.

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- In order to encourage the girl students hailing from poor families to pursue P.G. degree courses, the Periyar EVR Nagammai Free Education scheme to women students has been introduced from the year 2007-2008. In order to extend the above benefits to more women students, the parental Annual income limit has been enhanced from Rs.24,000/- to Rs.50,000/-.
- The tuition fees in the Government Engineering Colleges has been reduced from Rs.12,550/- to Rs.7,550/- from the academic year 2006-2007.
- Tuition fees has been waived for all the students studying in Government Polytechnic Colleges from the year 2008-2009 onwards.
- Physically handicapped students studying in Government and Government Aided Arts Colleges, Engineering colleges, Polytechnics and the Universities under the aegis of Higher Education Department are exempted from the payment of tuition fees.
- Maths, Chemistry and Physics Books are given free of cost to the students studying in Government Polytechnic Colleges from the year 2007-2008 onwards.

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- Free Bus Passes are issued to all the students of Govt. Arts & Science Colleges & Govt. Polytechnic Colleges from the year 2007-2008 onwards. More than 10,000 students of Govt Polytechnic colleges and more than 80,000 students of Govt. Arts & Science Colleges are benefited under this scheme.

1.7 Infrastructure facilities play an important role for the conducive atmosphere of teaching and learning. Infrastructure and use of latest techniques in teaching enhance the quality of higher education. In order to provide these facilities to the Government colleges, the following steps were taken:-

- Rs.64.58 Crores had been sanctioned in the last three years, for the construction of 1142 additional class rooms in Government Arts & Science Colleges. Most of the works have been completed and additional class rooms are put into use.
- In order to improve sanitation condition, Rs.8.64 Crores was allotted to construct 188 Toilet blocks and improve water supply in 60 Government Arts and Science colleges during 2008-2009. The works are under progress.

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- In order to give a new lease of life to the heritage building of Presidency College, Government approved the renovation at the cost of Rs.3.23 Crores. The renovation work is under progress.
- In order to undertake maintenance works to the very old buildings of the Chennai City women colleges viz. Queen Mary's College, Bharathi Women's College and Quaid-e-Milleth College, a sum of Rs.1.5 Crores has been sanctioned at the rate of Rs. 50 lakhs per college for special repair.
- In order to give face-lift to Queen Mary's College, Chennai, Government approved the construction of a new building called "**Kalaignar Valagam**" at the cost of Rs.2.5 Crores . The work is in progress.
- Considering the importance of laboratories in science education, a sum of Rs.6.40 Crores has been sanctioned for the construction of 42 new laboratories in 32 Government Colleges during the year 2007-2008. Most of the works are completed. Besides this, a sum of Rs.1 Crore has been sanctioned for the construction of additional laboratories in 5 Government Colleges during the year 2008-2009. The works are under progress.

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- In the last two years Rs.2.90 crores were sanctioned for the construction of Girls Hostel in three Government Polytechnic Colleges. When these works completed, more than 300 women students from very poor families will be benefited.

1.8 As per the policy of this Government to enhance the quality of higher education, the following steps were taken:-

- ❖ Best Scholar Award has been instituted to honour the educational services of Professors working in Universities and Colleges of Tamil Nadu for their contribution in the fields of Science, Social Science and Technology every year. Like-wise, Best College Awards are given to the colleges which performed well.
- ❖ Newly recruited Lecturers in Government Arts & Science Colleges were given one month Training in Teaching methods before their induction.
- ❖ Audio Visual facilities are being provided to enhance teaching learning process in Government Arts & Science Colleges at the cost of Rs.115 lakhs.

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- ❖ Choice Based Credit System has been successfully implemented in all colleges in Tamilnadu.
- ❖ Many a Government Colleges are provided with latest Computers with Internet facilities to help the students trained in the usage of computer and access the very vibrant IT job market.
- ❖ During the year 2007-2008, 939 Lecturers have been appointed through Teachers Recruitment Board including 18 Physically handicapped / Visually impaired Lecturers. During 2008-2009, 490 Lecturers belonging to SC / ST Community under special drive have been recruited through Teachers Recruitment Board. Steps are taken to appoint 1195 Lecturers through Teachers Recruitment Board. Permission was accorded to fill up 2600 vacant posts of lecturers in Government Aided Colleges.

1.9 In order to enhance the employability of the students, the following steps were taken by the Government:-

- i) Placement Cells have been established in the Government Colleges to guide and counsel the students to face the interview and employment counselling.

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- ii) Finishing School scheme has been implemented through the Directorate of Technical Education from the year 2008-2009 onwards, to give training to the students who have passed out from Engineering / Polytechnic Colleges, before they enter the job market .
- iii) Last year, the scheme of providing employment oriented certificate course in Technical courses as an add-on course in Government Arts and Science colleges was announced. The scheme is being implemented in all Government Colleges this year. Students who are willing to take up certificate course, along with the degree course can avail this scheme by paying a very nominal amount.
- iv) In order to equip the students of Government Arts colleges in communication skills and soft skills, language labs have been established in all colleges. This training will enhance the students employability.

1.10 Community Colleges play an important role in providing employment oriented education to persons who were unable to continue school education due to poverty and other reasons. A sum of Rs.1 crore has been provided to grant scholarship amount to 10,000 students studying in these colleges at the rate of Rs.1000/- per student. This scheme is being implemented by the Tamilnadu Open University, Chennai.

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1.11 Due to the efforts taken by our Honourable Chief Minister, Central University has been established at Thiruvarur. The academic courses will be started in Central University from the temporary accommodation provided by Government of Tamilnadu. Like-wise, land for Indian Institute of Management (IIM) in Trichy has been identified and a building to locate IIM temporarily was also identified. It is likely to start its courses from this year. Establishment of Central University and Indian Institute of Management (IIM) in Tamilnadu have become reality due to the sustained efforts of our Honourable Chief Minister Dr.Kalaignar.

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FINANCIAL OUTLAY

Under Demand No.20 - Higher Education, the total outlay is **Rs.1463.05** Crores, of which **Rs.112.97** Crores are for Plan Schemes and **Rs.1350.08** Crores are for Non- Plan schemes.

BUDGET ESTIMATE 2009 – 2010

HEAD OF ACCOUNT		PLAN	NON-PLAN	TOTAL
(Rupees in lakhs)				
2059	Public Works Maintenance and Repairs	--	2292.39	2292.39
2202 03	General Education University and Higher Education	943.07	112970.29	113913.36
2203	Technical Education	4356.84	18645.92	23002.76
2204	Sports and Youth Services	1928.19	--	1928.19
2205 104	Arts and Culture Archives	322.01	665.71	987.72
2235	Social Security and Welfare	--	29.96	29.96
2251	Secretariat – Social Services	--	344.79	344.79
3425	Other Scientific Research	395.87	--	395.87
3454 110	Census Surveys and Statistics Gazetteer and Statistical Memoirs	--	59.53	59.53
4202	Capital outlay on Education, Sports, Arts and Culture	3351.04	0.03	3351.07
Total		11297.02	135008.62	146305.64

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PART-II SCHEMES FOR THE YEAR 2009-2010

(Rs. in lakhs)

Sl No.	Description of the scheme	Ultimate Cost	Cost in 2009-2010
Secretariat - Higher Education			
1	Purchase of Digital Multi-Functional Copier Machines for Higher Education Department, Secretariat	4.50	4.50
Collegiate Education			
2	Purchase of Computers in 15 Government Colleges and Office of the DCE.	154.76	154.76
3	Audio Visual Facility in 25 needy Govt. colleges in the third phase.	50.00	50.00
4	Construction of additional 10 laboratories in 10 needy Government Colleges.	200.00	100.00
Total		404.76	304.76

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Technical Education

5	Construction of Ladies hostel with all facilities at Government College of Engineering, Bargur.	75.00	30.00
6	Construction of additional rooms and a common hall in the first floor of new hostel for first year students at Government College of Engineering, Tirunelveli.	75.00	30.00
7	Extension of Chemistry lab in the Administrative building at Thanthai Periyar Government Institute of Technology, Vellore	29.00	29.00
8	Construction of additional Hostel Building at Bharathiyar Centenary Memorial Government Women's Polytechnic College, Ettayapuram	100.00	40.00
9	Construction of one computer lab at Government Polytechnic College, Udthagamandalam	10.00	10.00
10	Construction of Additional class room for I year at Government Polytechnic College, Aranthangi	6.00	6.00
11	Construction of class room for III year Plastic Technology Course at Tamil Nadu Polytechnic College, Madurai	6.00	6.00
Total		301.00	151.00

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Tamil Nadu Archives

12	Purchase of Multi Functional Photocopiers for District Record Centres at Coimbatore, Trichy, Madurai, Salem, Cuddalore & Thanjavaur.	1.50	1.50
13	Provision of Fire Safety Measures in District Record Centre, Coimbatore.	0.80	0.80
14	Provision of Internet connectivity to Research scholars in the Tamil Nadu Archives and to six District Record Centres	1.20	1.20
15	Purchase of Books and Periodicals to the Tamil Nadu Archives Library.	1.50	1.50
16	Purchase of A3 size Lamination Machine for Tamil Nadu Archives Library	1.00	1.00
Total		6.00	6.00

Tamil Nadu Science and Technology Centre

17	Development of Evolution Park in Periyar Science and Technology Centre, Chennai.	45.00	45.00
18	Modernisation of Life Science Gallery at Periyar Science & Technology Centre, Chennai.	15.00	15.00
Total		60.00	60.00

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Tamil Nadu State Council for Science and Technology

19	Application of Science & Technology in Rural areas	10.00	10.00
20	Science and Technology Capacity building for Industrial Needs.	10.00	10.00
Total		20.00	20.00

Science City

21	Awareness Campaign in Frontier Technologies.	3.00	3.00
22	Provision of Ramp for Physically Challenged.	1.50	1.50
23	Workshop on Science for the Physically Challenged.	4.00	4.00
24	Science Festival.	30.00	30.00
Total		38.50	38.50

Grand Total	834.76	584.76
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2. COLLEGIATE EDUCATION

2.1 The Directorate of Collegiate Education was formed in the year 1965 with a view to administer exclusively the Collegiate Education by bifurcating the erstwhile Directorate of Public Instruction into Directorate of School Education and Directorate of Collegiate Education. Presently 1137 Colleges (excluding 8 University Colleges) are functioning under the administrative control of the Directorate of Collegiate Education.

Choice Based Credit System

2.2 During the Academic year 2008-2009, Government introduced 'Choice Based Credit System' in all Arts and Science Colleges.

New Courses started in the Government Colleges

2.3 During the Academic year 2008-09 employment oriented new courses have been started in 16 Government Arts and Science Colleges.

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Shift System in Government Colleges.

2.4 Shift system has been introduced in Under Graduate courses in 10 Government Colleges during the year 2006-07 in the first phase and this shift system has been extended to 48 Government Colleges during 2007-2008. By this, the enrollment of students has increased considerably. During the academic year 2007-08, 10343 students and 2008-09, 10710 students were admitted in the first year under Shift- II.

Construction of laboratories in Government Colleges

2.5 Considering the need for the additional laboratories in Government colleges, during the year 2007-08 the Government have sanctioned a sum of Rs.6.40 crores to construct 42 additional laboratories in 32 Government colleges and a sum of Rs.1 crore for the construction of 5 additional laboratories in 5 Government colleges during the year 2008-2009.

Toilet facilities and Compound Wall in Government Colleges

2.6 During the year 2008-2009, Government have sanctioned a sum of Rs.8,64,80,000/- for the construction of 188 toilet blocks in 60 Government Colleges and a sum of Rs.1.03 crore for the construction of Compound Wall in 12 Colleges. The construction works are in progress. By this, Sanitation and Environment around the campus is protected.

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Construction of language laboratories in Government Colleges

2.7 To cope up with the expectations for Software Industries, it becomes necessary to train the rural students in soft skills including communication skill. For the welfare of the rural area students, the Government have provided a sum of Rs.409.00 lakhs to construct 63 language labs in 63 Government Colleges during the year 2007-2008. The works have been completed in most of the places.

Audio Visual Education in Government Colleges

2.8 During the year 2007-2008, the Government have sanctioned a sum of Rs.15.00 Lakhs for providing Audio Visual Education facilities in 10 Government Colleges and a sum of Rs.50.00 Lakhs for providing Audio Visual facilities in 25 Government Colleges for the year 2008-2009.

ACTIVITIES / SCHEMES UNDERTAKEN DURING 2008-2009

National Service Scheme (N.S.S)

2.9 National Service Scheme is implemented by providing grant in the ratio of 7:5 by the Government of India and Government of Tamil Nadu respectively. During the year 2008-09, 3.70 lakhs volunteers are serving under this Scheme. A sum of Rs. 492.08 lakhs being Govt. of India's share and a sum of Rs.351.49 lakhs towards the State Government's share, totaling a sum of Rs.843.57 lakhs have been provided for this scheme.

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Empowerment of Women

2.10 Free coaching is given exclusively for women students for appearing in IAS / IPS Examination. Two centres - one at Queen Mary's College, Chennai and the other at Arulmigu Meenakshi Government College for Women, Madurai, have been established by the Government to give free coaching to women students. In each centre, 60 women students are given free coaching for appearing in IAS/IPS Examinations. During the current financial year, the Government have provided a sum of Rs. 10.00 lakhs for implementing this scheme.

Stipend for Tamil medium students

2.11 The scheme of stipend to students in Tamil Medium was introduced from the year 1971-72 and Rs.400/- is given as stipend to each student studying in Tamil Medium. During the financial year 2008-09, Government have sanctioned a sum of Rs.1,35,00,000/- for this scheme. A sum of Rs. 1,13,36,000/- was spent and 28340 students were benefited under this scheme.

Special Coaching to SC/ST and MBC Students

2.12 The Students studying in Government Colleges particularly in rural areas belonging to SC/ST and MBC communities face some initial difficulties in English, Maths and Science subjects. In order to make them fully conversant with these subjects, special

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coaching is given outside the class hours and also on weekends. They will be able to compete with other students and will also take up University examinations with confidence when they complete these remedial courses in the respective subjects. During the year 2008-09 a sum of Rs.2.00 lakhs has been allotted for 20 colleges at the rate of Rs.10,000/- to each college. 4480 Students were benefited under this scheme.

Tamilnadu Agricultural Labourers-farmers (social security and welfare) scheme, 2006

2.13 Tamil Nadu Agricultural Labourers – Farmers (Social Security and Welfare) Scheme has been implemented with effect from 22.12.2006. This scheme is for the upliftment of the Agricultural Labourers, Farmers and Registered Tenants and their dependants in social, educational and economic status.

2.14 To improve the Educational status of the children of Agricultural Labourers and Farmers, Government have provided assistance to the tune of Rs.2,45,15,000/- to 11137 students in 2008-2009. The quantum of assistance under this scheme is given below:-

Sl No	Details of course	Day scholar		Hosteler	
		Boys Rs.	Girls Rs.	Boys Rs.	Girls Rs.
1.	UG Degree course (per year)	1750	2250	2000	2500
2.	PG Degree course (per year)	2250	2750	3250	3750

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Job Fair

2.15 A placement Cell has been established in the Directorate of Collegiate Education for the benefit of the students. Through this cell, Job Fairs have been conducted in various Centres viz. Government Arts College for Men, Nandanam, Chennai, Dr.Ambedkar Government Arts College, Vyasarpadi, Chennai, Arignar Anna Government Arts College, Villupuram, Periyar E.V.R. College, Tiruchirappalli, Chikkanna Government Arts College, Tirupur and Sri Meenakshi Government College for Women, Madurai. Many a leading Companies participated in the fair to recruit students for various posts. About 214 passed out graduates were selected and appointed by leading Companies in 2008-2009 alone.

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3. TECHNICAL EDUCATION

3.1 The Directorate of Technical Education was established in 14th October 1957. The Government of Tamil Nadu has taken efforts to formulate new policies and promote developments in the field of technical education. It is the policy of the Government to improve the quality of Technical Education at all levels. Further, the Government policy is to increase the quantity of Institutions - Polytechnic Colleges as well as Engineering Colleges so as to ensure accessibility of technical education even in remote areas for disadvantaged and weaker sections of the society. Owing to this, at present, there are 6 Government Engineering Colleges, 3 Government Aided Engineering Colleges, 11 Constituent Colleges of Anna Universities and 335 Self-financing Colleges. Besides this, there are 22 Government Polytechnic Colleges, 34 Government Aided Polytechnic Colleges, 3 Affiliated Polytechnic colleges and 258 Self-financing Polytechnic Colleges functioning in Tamil Nadu.

Reduction of Minimum Eligibility Marks

3.2 From the year 2008-09 onwards, minimum eligibility marks for the admission to B.E. / B.Tech Courses has been reduced from 60% to 55% for OC, 55% to 50% for BC, 50%to 45% for MBC and mere pass for SC/ST candidates.

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Technical Education Quality improvement Programme (TEQIP)

3.3 To improve the Technical and Engineering Education system in our country and to produce high quality Technical professionals in order to raise productivity and competitiveness, the TEQIP Scheme was introduced in our country. A sum of Rs.96.1630 Crores has been sanctioned for this purpose and a sum of Rs.94.0182 Crores has been spent so far. This is distributed to 11 TEQIP Institutions (5 Government Engineering Colleges, 3 Government Polytechnic Colleges and 3 Anna University constituent Engineering Colleges). By utilising this allocation, activities relating to Civil works, Equipments, Furniture, Books & Learning Resources, Consultants service and research studies, Training/Study Tours / Fellowships (Local and Foreign) workshops, Consumables, Operation and Maintenance, Networking of Institutions, Service to Community and Economy are carried out in the above mentioned institutions. The project came to an end on 31.03.2009. To improve Post-Graduate studies and Research, there is a proposal to enter into Phase II of TEQIP from July 2009.

Introduction of Pre- Junior Typewriting Examinations

3.4 Pre-Junior Typewriting Examinations have been introduced to sixth standard passed candidates to enable them to have practice in Typewriting Key Board for easy operation of computers in future.

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Recruitment of Faculty

3.5 Through Teachers Recruitment Board (TRB), 67 Lecturers were recruited in Government Engineering Colleges and Government Polytechnic Colleges during 2007-08. Vacant posts of 4 Principals, 6 Professors and 18 Assistant Professors have been filled up in the Government Engineering Colleges during 2008-09. During 2008-09, 121 Lecturers in Government Engineering Colleges has been upgraded as Senior grade Lecturers, Selection grade Lecturers and Assistant Professor (RD) through Career Advancement Scheme. Besides this, action has been taken to fill up 20 Heads of the Department Posts and 14 Senior Grade Lecturers Posts in Government Polytechnic Colleges. Action has also been taken to recruit 34 Under Graduate lecturers and 7 Post Graduate Lecturers in Government Engineering Colleges and 56 Lecturers in Government Polytechnic Colleges through Teachers Recruitment Board.

Implementation of E-governance

3.6 The attendance particulars of the students from all the Polytechnic Colleges are collected through e-governance which has enabled the Chairman, Board of Examinations to process the data and issue Hall Tickets to all eligible candidates.

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Tamil Nadu Agricultural Labourers-Farmers (Social Security and Welfare) scheme, 2006.

3.7 Tamil Nadu Agricultural Labourers – Farmers (Social Security and Welfare) Scheme is implemented with effect from 22.12.06. This scheme is for the upliftment of the Agricultural Labourers, Farmers and Registered Tenants and their dependants in social, educational and economic status.

3.8 To improve the Educational status of the children of Agricultural Labourers and Farmers and to make technical education accessible to them, during the year 2008-2009, expenditure was incurred to the tune of Rs.3.64 Crores and 14,128 students were benefited under this scheme. The quantum of assistance under this scheme is given as below:-

Sl No.	Details of course	Day scholar		Hostler	
		Boys Rs.	Girls Rs.	Boys Rs.	Girls Rs.
1.	Polytechnic (per year)	1250	1750	1450	1950
2.	Engineering (per year)	2250	2750	4250	4750

Establishment of New Engineering Colleges

3.9 As announced in the Budget Speech, action has been taken to establish new Engineering Colleges during the financial year 2009-2010 through the respective Anna Universities at Tiruvannamalai, Thanjavur, Dindigul, Thoothukudi and Kanyakumari Districts which do not have Government Engineering Colleges.

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4. UNIVERSITY EDUCATION

The following are the Universities functioning under the aegis of Higher Education Department:-

1. University of Madras
2. Madurai Kamaraj University
3. Bharathiar University
4. Bharathidasan University
5. Alagappa University
6. Mother Teresa Women's University
7. Manonmaniam Sundaranar University
8. Periyar University
9. Thiruvalluvar University
10. Tamil Nadu Open University
11. Annamalai University
12. Tamil Nadu Physical Education and Sports University
13. Tamil Nadu Teachers Education University

Technical Universities

14. Anna University, Chennai
15. Anna University, Coimbatore
16. Anna University, Tiruchirappalli
17. Anna University, Tirunelveli

‘எண்ணிக்கையை அதிகரிப்போம்’

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UNIVERSITY OF MADRAS

4.1 The University of Madras, organized on the model of London University, was incorporated on September 5, 1857 by an Act of the Legislative Council of India. It is one of the three Premier Universities, the other two being the University of Calcutta and University of Bombay. Started as an examining body, research and teaching functions of the University were consolidated by the enactment of Madras University Act of 1923.

4.2 The University of Madras has been granted recognition under 2(f) and 12(b) by UGC from the very inception of University Grants Commission (UGC) in 1956. The University has at present six campuses all of which are within the Chennai Metropolitan area. They are i) Chepauk (Main) Campus, ii) Guindy Campus, iii) Marina Campus, iv) Taramani Campus, v) Chetpet Campus (Madras University Union) and vi) Maduravoyal Campus (Field Laboratory).

4.3 The University of Madras was the first to introduce the concept of Autonomous Colleges within the University system. It has encouraged the colleges with the required academic and infrastructure strength to seek autonomous status and even aspire for the status of college with potential for excellence. There are 178 colleges affiliated to University of Madras and 23 are autonomous colleges.

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‘தரத்தினை உயர்த்துவோம்’

4.4 There are 66 teaching and research Departments in the University of Madras which are grouped under 17 Schools.

4.5 The University of Madras has taken the following activities:-

1. Conservation of the Senate House
2. Introduction of soft Skills Course
3. Establishment of 11 Centres of Excellence with the support of Central and State Governments.
4. Collaboration with Academia, Industries and Corporate Sectors in India and abroad through UICIC and ICOM
5. Digital library Initiatives in all the campus libraries
6. Establishment of e-Governance

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MADURAI KAMARAJ UNIVERSITY

4.6 The Madurai Kamaraj University, established in 1966, has 73 Departments clustered into 18 Schools. The University has 69 affiliated colleges which comprise of 16 Autonomous, 16 Aided, 1 Government, 29 Self-financing, 2 Constituent and 5 Evening Colleges and 15 approved institutions. The Directorate of Distance Education of the University has a student strength of about 1.20 lakhs. The Directorate has 31 spot admission centers in Tamil Nadu, 75 Study Centres in other states and 12 Study Centres in abroad.

4.7 The vision of the University envisages the mobilization of resources to cope up with the reduction in public funding and to enhance the infrastructure to global standards. With the UGC permitting colleges to receive direct funding from agencies such as CSIR, DST, and the ICAR, the Madurai Kamaraj University with the active support of the University Departments, has taken measures to motivate affiliated college teachers to apply for and undertake research projects.

Centre for Educational Research

4.8 The Honourable Chief Minister of Tamil Nadu, Dr.Kalaignar M.Karunanidhi initiated the institution of the Centre for Educational Research at Madurai Kamaraj University on July 15th 2006 during the 104th birth day celebrations of Thiru K. Kamaraj with a grant of One Crore. The Centre is unique as it is the first-of-its-kind in the universities of the entire nation.

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4.9 The Centre for Educational Research would assist in evolving policies on education, promote research and development in educational programmes, take up special initiative for women's education, empowerment of rural masses through education and bridge urban-rural divide in educational standards. The Centre for Educational Research has been equipped with Video Conferencing facility and a Smart Classroom with all latest facilities.

4.10 The UGC Expert Committee released a grant of Rs.78/- lakhs in addition to Rs.112.42 lakhs under XI Plan Development Grant towards General Development Assistance to the University.

4.11 The University has implemented Choice Based Credit System in a record time in all the affiliated colleges from 2008-2009 based on the guidelines issued by the Tamil Nadu State Council for Higher Education. Besides core subjects and elective subjects, soft skills-development programmes have been inducted into the syllabi of all courses based on elaborate consultation with teachers, principals and experts. The curricula of 92 Under Graduate and Post Graduate courses have been revamped and the same has been passed in the Academic Council and Senate.

4.12 University plans to provide Personality Development and Spoken English courses for the University and affiliated college students to give more employment opportunities.

4.13 It is proposed to establish a Planetarium and a Science Centre in the University and it will provide scope to expand its "Outreach Activities".

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BHARATHIAR UNIVERSITY

4.14 Bharathiar University at Coimbatore was established by the Government of Tamil Nadu in February, 1982 with jurisdiction over the Districts of Coimbatore, Erode and The Nilgiris. In May 1985 the University was recognised by the University Grants Commission (UGC). The University is accredited with "A" Grade by NAAC.

4.15 Bharathiar University started functioning with nine academic departments inherited from the Autonomous Postgraduate Centre of the University of Madras in Coimbatore. At present the Bharathiar University have 37 Departments with 44 Post-graduate courses, 35 M.Phil. research degrees, 24 Ph.D. and a unique Degree course of M.Sc., Ph.D. – 5 year integrated Course with students strength of 2812.

4.16 In order to increase the placement opportunities among the final year UG and PG students in the affiliated colleges, the University has proposed to establish Finishing schools in Coimbatore, Erode and Ooty. In these Schools , students will be oriented towards sector specific and tool specific skills for a month. Also they will be given coaching in mathematical skills, logical reason , mental application and basic English. After coaching IT, Private banks and Insurance Companies will be invited to recruit the students. It is proposed to train large number of students in these schemes.

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BHARATHIDASAN UNIVERSITY

4.17 Bharathidasan University was established in 1982 at Tiruchirappalli. The University has jurisdiction over eight districts viz. Tiruchirappalli, Karur, Perambalur, Ariyalur, Thanjavur, Nagapattinam, Thiruvarur and Pudukottai.

4.18 The University has 52 Departments/ Centres and 16 schools. 94 Arts and Science Colleges, 3 Fine Arts Colleges and 3 constituent colleges are affiliated to this University. Totally, 251 programmes are offered through Colleges / Affiliated Institutions.

4.19 There is a Bio-diagnostic lab which is open to public at a very low cost for the services rendered. The services include tissue matching for kidney transplantation and all categories of chemical tests. A PG diploma course in "Molecular Diagnostics" has been started recently.

4.20 Institute of Entrepreneurship Career Development (IECD) is a unique organization of the University involved actively in Skill based training programme. To cater to the needs of school dropouts, unemployed, youth and students who are passing some of the UG/PG programmes, this institute is offering 102 self employment courses.

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ALAGAPPA UNIVERSITY

4.21 Alagappa University was established in 1985 and located at Karaikudi in Sivagangai District. The University has emerged from the galaxy of institutions initially founded at Karaikudi by the munificent personality, Dr.R.M.Alagappa Chettiar. The University has Jurisdiction over Ramanathapuram and Sivagangai District. 30 Arts and Science Colleges are affiliated to this University.

4.22 The University offers Post-graduate, M.Phil and Ph.D Programs of Studies in Bio-technology, Business Administration, Bank Management, Commerce, Computer Science and Engineering, Corporate Secretaryship, Education, English and Foreign Languages, Industrial Chemistry, International Business and e-Commerce, Library and Information Science, Mathematics, Oceanography and Coastal Area Studies, Physics and Crystal Research, Physical Education, Tamil and Women's Studies. Undergraduate and Certificate programs are also offered in the Education and Physical Education streams.

4.23 From the Academic Year 2008-2009 Post-graduate, M.Phil and Ph.D Programs of Studies in Animal Health and Management, Bio-Electronics and Bio-Sensors, Bio-Informatics and Nano Science and Nano Technology are also offered. In toto, the University offers 70 programs which includes 24 PG, 19 M.Phil and 21 Ph.D, through its different Schools of Learning.

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4.24 The University Departments follow Choice Based Credit System (CBCS) for a long time. The Programs of Studies and Research of the Affiliated colleges are designed under CBCS with uniform syllabi as per the suggestions of the Tamil Nadu State Council for Higher Education.

MOTHER TERESA WOMEN'S UNIVERSITY

4.25 The Mother Teresa Women's University was established in Kodaikanal in 1984. The University was given the responsibility of furthering the advancement of learning and prosecution of Research in the area of Women's Studies and also for purposes of providing consultancy and monitoring services for the Welfare Schemes for Women. The motto of the University is "Towards Equal Status" to be achieved through equal participation of men and women in all areas of life. Six women Colleges situated in Dindigul and Theni Districts have become the affiliated colleges of Mother Teresa Women's University.

4.26 Economics, English, Education, Historical Studies, Family Life Management, Sociology, Tamil Studies, Computer Science, Women's Studies and Science are the departments of this University. The University has been conferred with B++ status by National Assessment and Accreditation Council.

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4.27 Mother Teresa Women's University is the only University focusing on Women's Studies through its different curricula, syllabi and research and extension activities and courses offered at various levels – Ph.D/ M.Phil/ M.A, M.Sc., MCA and M.Ed. and Bachelor Degree including Education. Researches are conducted leading to M.Phil and Ph.D Degrees through Part-Time/Full-Time and JRF. Till date 150 Ph.D's and 1,456 M.Phils are awarded. Research subjects include Female Infanticide, Head loaders, Stone breakers, Sex bias in textbook, Women and Economy, Value Education, Nanotechnology and Biotechnology.

Automation

4.28 Automation in the functioning of the University is taken up in phases. At the first instance, all non-teaching staff in administrative section and teaching faculties are oriented in computer programming. The University library and examination centres are fully automatized.

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MANONMANIAM SUNDARANAR UNIVERSITY

4.29 Manonmaniam Sundaranar University was established in 1990. The University is located at Abishekapatti, Tirunelveli with two satellite campuses at Alwarkurichi and Rajakkamangalam. The University caters to the long-felt educational needs of the three southern districts of Tamilnadu viz., Tirunelveli, Thoothukudi and Kanyakumari. It also extends educational service through Distance Education Mode.

Departments and Colleges

4.30 The University has 24 academic departments and a network of 58 colleges which include 2 Government Colleges and 25 Aided Non-Autonomous Colleges, 23 Self-Financing Colleges, one Constituent college, 7 Autonomous colleges (Government Aided) and 4 Mano Colleges. In addition, 38 Community colleges and 83 Extension Learning Programmes (ELP). Apart from P.G. and Research programs, the diploma and certificate courses are also offered through the colleges. The University offers over 47 UG Courses, 30 P.G. Courses, over 79 Certificate and Diploma Courses and 16 M.Phil Courses, 108 Ph.D. Programmes.

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Curriculum Development and Syllabus Reform

4.31 Manonmaniam Sundaranar University has introduced Choice Based Credit System (CBCS) in all the affiliated Colleges & University Departments from the Academic Year 2008–2009 based on the guidelines of Tamil Nadu State Council for Higher Education (TANSCHÉ). The Choice Based Credit System would empower the students to meet the challenges of globalization by providing them not only the opportunity to improve their communication skill but also by imparting values, knowledge and skill in languages.

University Stipendiary Research Fellowship

4.32 To encourage the Research Scholars in their work, the University provides stipendiary allowance to the research scholars under the scheme known as University Stipendiary Research Fellowship. The selected USRF scholars are given fellowship assistance of Rs.2000/- per month with a contingency allowance of Rs.4000/- per annum.

Mano Colleges

4.33 A frontline educational venture was the floating of MANO Colleges in rural areas of the University region so as to educate and empower the poor and women students at an affordable cost. At present, there are 4 centers at Nagampatti, Sankarankovil, Puliyangudi and Cheranmahadevi.

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Directorate of Community Colleges

4.34 To promote the employability of the rural youth who have completed +2 course and are below 25 years, the University introduced the Community Colleges Scheme in 1999. Under this scheme, 38 Community Colleges have been approved and through these Colleges 23 job-oriented, work-related and skill-based courses are offered.

PERIYAR UNIVERSITY

4.35 Periyar University was established in the year 1997 at Salem. It has eighteen teaching and research departments. Tamil, Commerce, Mathematics, Physics, Chemistry, Computer Science, Biochemistry, Economics, Education, Food Science, Management Studies, Geology, English, Micro Biology, Biotechnology, Sociology, Journalism & Mass Communication and Psychology are the eighteen departments. 57 Arts & Science Colleges are affiliated to this University. 575 students in University Departments and 80464 students in Affiliated Colleges are studying.

Career Guidance and Placement Cell

4.36 For the benefit of the students, Periyar University is providing career guidance and Counselling and placement to the students.

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Skill Development Course

4.37 In order to empower the students with skills, Skill Development courses have been introduced. With the aim for the improvement of poor and rural students who cannot afford to study in the regular colleges, one-year skill development diploma courses are given.

THIRUVALLUVAR UNIVERSITY

4.38 Thiruvalluvar University was established in the year 2002 at Vellore. The Academic and administrative buildings for the University are housed in four blocks in the Fort Campus, Vellore, belonging to the Department of Archaeological Survey of India. The Department of Applied Chemistry is housed in the Government College of Education building. Government sanctioned a sum of Rs.16.70 crores for the construction of own building to Thiruvalluvar University in 112.68 acres in Serkadu and Vinnampalli Villages in Katpadi Taluk, Vellore District. The Hon'ble Chief Minister Dr.Kalaignar has laid foundation stone on 16.02.2008 for the University buildings.

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Teaching / Research and Extension Activities

4.39 Regular admissions are done for M.Sc., M.Phil. and Ph.D courses in Zoology and M.Phil and Ph.D courses in Economics. A major research Project on “Silver nanoparticles – potential applications in sericulture”, funded by the Department of Science and Technology (DST), New Delhi has been implemented in the Department of Zoology at the cost of Rs.13.35 lakhs.

Affiliated / Approved Colleges of the University

4.40 The University was started with 52 approved/affiliated colleges falling within its jurisdiction which extends to the Districts of Vellore, Thiruvannamalai, Villupuram and Cuddalore. At present, the total number of affiliated colleges are 74 of which 9 are Aided Colleges, 10 are Government Colleges, 2 are Oriental Colleges and 53 are self-financing colleges.

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TAMIL NADU OPEN UNIVERSITY

4.41 The Tamil Nadu Open University was established in 2002, with the objective of introducing and promoting Open and Distance Education System in the educational scenario of Tamil Nadu, as well as co-ordinating and setting the standards for such systems. It is the 10th State Open University established in the country.

4.42 The University has established Eleven Schools of Study, viz. Computer Science, Continuing Education, Education, Health Sciences, Humanities, Journalism & New Media Studies, Management, Politics & Public Administration, Sciences, Social Sciences and Tamil & Cultural Studies and 6 Divisions viz. the Student Registration & Evaluation, Finance, Student Support Services, Material Production and Distribution, Administration and Electronic Media Production & Research Centre (EMPRC).

4.43 The University has launched 14 programmes in the year of its inception, 2003-04 itself and enrolled around 14000 students. With the addition of 68 more programmes in the next five years, the total number of programmes on offer in the current year has been risen to 82 and the student strength has crossed 1.7 Lakhs. Besides the conventional BA., B.Sc., B.Com., B.Ed., BCA, BBA and MA., M.Sc., M.Com., MCA, MBA programmes in specialized areas like, Shipping & Logistics Management, Hospital Administration, Audiology and Counselling & Psychotherapy are also offered.

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4.44 With a view to provide a blended Learning Environment by supplementing the print material in self instructional mode, employing professional agencies, the University has developed multimedia e-content in CD format with Audio, Visuals and Animation wherever necessary for 82 courses already. Copies of all these CDs have been made available to National Level One Stop Educational Portal, **“SAKSHATH”**. The Test run of Virtual Tele-Educational Facility at the Head quarters and University Co-ordinating Centres (UCCs) has been completed and it will be brought to regular use shortly.

4.45 The University has received the grant of Rs.1 Crore during the year 2008-2009 for distribution as scholarships to the students undergoing Vocational Education Programmes of Tamil Nadu Open University through Community Colleges. The Government has sanctioned Rs.3 Crores for producing Educational Television Programmes on Spoken English, Yoga, Career Guidance and Preparation for Competitive Examinations. Steps have been taken to produce 52 episodes of 24 minutes duration each on individual themes.

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4.46 Activities / Schemes / proposal to be undertaken during 2009-2010

- E-Content will be developed for 50 more subjects.
- The CDs containing E-Content already developed will be supplied to the students for 82 subjects along with printed study materials.
- Virtual Tele-Education facilities will be put to regular use in both synchronous and asynchronous mode.
- Interactive Radio Counselling Sessions will be started using Gyanvani.
- Planning to introduce 18 new programmes during the year 2009-2010.

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ANNAMALAI UNIVERSITY

4.47 Annamalai University was established in 1929 as Unitary residential centre of higher learning, patterned after the renowned Universities of Oxford and Cambridge. With barely seven departments of study at its inception, the University has now 49 departments under the Faculty of Arts, Science, Indian Languages, Engineering and Technology, Education, Fine Arts, Agriculture, Dentistry and Medicine on a sprawling campus of about 1000 acres.

4.48 The University has a strength of nearly 3000 faculty members engaged in teaching and research. Over 23000 students are on roll in the on campus programmes. The NAAC has accredited this University at B++ level.

4.49 Choice Based Credit System and Five Year Integrated Programmes have been introduced in most of the programmes. Innovative programmes such as Biotechnology, Microbiology, Bioinformatics, Industrial Biotechnology, Marine Biotechnology, Environment Science, Herbal Science, Information Technology, Software Engineering, Visual Communication, Electronics and Communications, etc are being offered.

4.50 During 2009-2010, the University has proposed to start 15 on-campus programmes (4 UG Programmes and 11 PG Programmes).

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TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY

4.51 Tamil Nadu Physical Education and Sports University was established on 15.9.2005. At present, the University is temporarily functioning at E.V.K. Sampath Maaligai, College Road, Chennai.

Choice Based Credit System and Uniform Syllabus

4.52 The University has 11 departments and 11 affiliated colleges offering U.G., P.G., and P.G., Diploma Programme. Uniform syllabus and Choice based Credit System are adopted in the above said departments and colleges for the various courses.

The First Convocation

4.53 The First Convocation of the University was held on 17.03.2008. Wherein 522 Graduates were conferred with Degree and 9 students were awarded with Diploma.

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TAMIL NADU TEACHERS EDUCATION UNIVERSITY

4.54 The Government of Tamil Nadu enacted an Act for the establishment and incorporation of Tamil Nadu Teachers Education University in the State of Tamil Nadu for promoting excellence in Teachers Education. The said act is called Tamil Nadu Teachers Education University Act (Tamil Nadu Act 33 of 2008) and it came into force from 01.07.2008.

4.55 The important objectives of the University are as follows:-

- to monitor standards of teachers education as approved by the National Council for Teachers Education at the State levels;
- to develop research facilities in teachers education and to find out the ways and means to identify innovative courses in teachers education;
- to institute degrees and other academic distinctions in teachers education as approved by the National Council for Teachers Education;

Activities and Schemes Undertaken so far

4.56 The University has carried out the following Academic and administrative activities from its inception:-

- University has granted affiliation to 73 new colleges raising the overall strength of the affiliated colleges to 564.

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- Created a website for the University
- Four Ad-hoc Boards of Studies were constituted to frame Syllabi and Regulations for B.Ed., M.Ed., M.Phil., and Ph.D. for the academic year 2009-2010. The Boards will finalize the Syllabi and Regulations for the academic year 2009-2010.

Activities/Schemes Proposed to be undertaken during 2009-2010

4.57 The University is keen on promoting research activities in the field of education. The research activities of the University would focus on the emerging areas of Health Education, Environmental Education, Peace Education, Communal Harmony, Human Rights Education and Current Societal Challenges regarding Special Children, Physically Challenged and Mentally Retarded. The University proposes to establish six new departments to facilitate the research activities in the above areas in order to meet the research requirements supported by faculties.

4.58 The University proposes to create a modernized library to cater to the needs of research scholars, students and faculties. The initial set up of the library would be based on Information Communication Technology (ICT) which is the latest mode in the setting up of a library.

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5. TECHNICAL UNIVERSITIES

ANNA UNIVERISTY, CHENNAI

5.1 Anna University was established on 4th September 1978 as a unitary type of University to promote teaching and research in the field of Engineering, Technology and Applied Sciences by bringing together the College of Engineering Guindy (CEG), Chennai, Alagappa College of Technology (ACT), Chennai, School of Architecture and Planning (SAP), Chennai and Madras Institute of Technology, Chrompet (MIT), Chennai. The University with its infrastructure facilities has started growing and raised to the standards of Higher Education and has world-wide recognition in the field of Engineering, Technology and Applied Sciences. Anna University, Chennai has been awarded Five-Star Status by National Assessment and Accreditation Committee of the U.G.C. / A.I.C.T.E.

5.2 Considering the excellent growth of Anna University, the Government of Tamil Nadu, during December 2001, have upgraded the University from unitary type to affiliating type of University by bringing together about 250 Engineering Colleges in the State of Tamil Nadu. Since 1st February 2007, 140 Engineering Colleges situated in the districts of Chennai, Thiruvallur, Vellore, Kanchipuram, Thiruvannamalai and Villupuram in Tamil Nadu State have been affiliated to this University. Apart from this, in order to spread Higher Education in rural areas, two new constituent engineering colleges of Anna University, Chennai were established, one at Tindivanam and the other at

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Villupuram. These two Engineering Colleges were inaugurated by the Honourable Chief Minister of Tamil Nadu on 1st September 2008.

5.3 Prior to the year 1978 the University was conducting only 16 UG programmes, 26 PG programmes and 6 PG Diploma Programmes. After the formation of the University, the number of new courses was introduced taking into account the emerging area in technology development. At present, the University is conducting 45 UG programmes (Full Time and Part Time), 101 PG programmes (Full Time and Part Time), 5 M.Phil. programmes and Ph.D. programmes in all the Engineering, Technology and Applied Sciences.

5.4 During the year 1978-1988, there were only 16 Departments and 10 Centres in the University. Due to the developments in the field of Engineering and Technology, many new centres were created. At present Anna University, Chennai has 30 Departments and 45 Centres with well equipped laboratories and state-of-art infrastructure facilities.

5.5 In tune with the growing global demand for extending conventional university instructional mode to online self learning distance education, Anna University, Chennai created Centre for Distance Education during the year 2007. The Centre currently offers MBA, MCA and M.Sc. programmes through distance mode.

5.6 Anna University has established placement and training cell. The University is making all steps in getting placement not only to the students coming out from this campus but also to the students of all affiliated colleges in the State.

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ANNA UNIVERSITY, COIMBATORE

5.7 Anna University, Coimbatore has been established under Act No.42 of 2006 by the Government of Tamil Nadu on 01.02.2007. The existing Engineering Colleges and also the Engineering Colleges which may be established in future, in the University area comprising the nine Districts of Coimbatore, Dharmapuri, Erode, Karur, Tirupur, Krishnagiri, Namakkal, Salem and The Nilgiris are affiliated to this University. At present, 3 Government Engineering Colleges, 2 Govt. Aided Engineering Colleges, 98 Self-Financing Engineering Colleges and 15 Stand-alone (MBA/MCA) Institutions are affiliated to this University.

5.8 The University has so far created 17 Departments / Sections and 10 Centres / Schools / Institutes. The University (University students 4,546 - UG/PG, FT & PT) with its affiliated colleges has on roll about 65,354 students in UG & PG programmes for I & II Years.

Three-year exclusive B.E. / B.Tech. programme for Polytechnic Diploma holders :

5.9 Every year around 1,00,000 diploma holders are coming out of polytechnic institutions in Tamil Nadu. Only 10% of engineering seats (roughly 8,000) are available for them to obtain B.E. degree. Considering the huge demand of the diploma holders seeking admission into B.E. degree and also the manpower shortage faced by core engineering

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industries, Anna University, Coimbatore has come out with a novel concept of introducing three-year B.E./B.Tech. programme exclusively for the diploma holders based on polytechnic syllabus from the academic year 2007-2008. In total, 2,030 students under Full-Time and 587 students under Part-Time are pursuing studies in 8 disciplines.

Post Graduate Courses

5.10 The University is offering 21 courses in M.E./M.Tech. programme, with 486 students under Full-Time and 451 students under Part-Time modes, 5 MBA Courses with 784 students in Full-Time and 34 students in Part-Time and one MCA programme with 177 students.

Research Programmes

Distance Education Programmes

5.11 Anna University, Coimbatore is offering 73 courses in UG / PG and PG Diploma programmes under Distance Education mode. Till date, around 3,000 students have joined in these programmes.

Grade System

5.12 The University has introduced international form of Grading System from this academic year for all the terminal examinations (UG/PG/Ph.D.) for the benefit of all students studying in affiliated colleges.

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Autonomous Colleges

5.13 The University Grants Commission has approved autonomous status for 7 self-financing engineering colleges during the academic year 2008-2009 apart from the already existing 3 institutions. The University has also granted autonomous status to Government College of Engineering, Salem from the academic year 2009-10.

ACTIVITIES / SCHEMES UNDERTAKEN DURING 2008-2009

8 Mbps Connectivity

5.14 The University has entered into a MoU with Railtel to provide 8 Mbps 1:1 broadband connections to all the Government, Government Aided and Self Financing Engineering Colleges under this region so as to effectively use the technology for implementing Examination Management System and creating virtual class room situations. The work is under progress and expected to be completed within next 2 months among the 118 educational institutions and when it is completed, it would be the first of its kind in India. With this facility, the particular area of specialization available in one institution can be shared by other institutions by way of tele-conferencing mode of learning.

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Centre for Intellectual Property Rights (CIPR)

5.15 More innovations are being taken up in Tamil Nadu in engineering and technology. Students do extensive research and industries produce more innovative products which are going unnoticed in this post-liberalisation and globalization era. New innovations have to be patented. The Centre for Intellectual Property Rights established at Anna University Coimbatore concentrates mainly to file as many patents to give credit to the State of Tamil Nadu in filing patents, Copyrights, Designs and Trademarks. It is helping the students, innovators, and industries in searching data base and filing patents. So far 23 Patents and 13 Trademarks were filed through this Centre.

ACTIVITIES / SCHEMES PROPOSED TO BE UNDERTAKEN DURING 2009-2010

Establishing University's own Campus

5.16 At present the University is functioning in rented premises at Jothipuram, near Coimbatore wherein the University's academic and administrative facilities are made available. The campus has an extent of 10 acres and 1,00,000 sq.ft built up space. Central facilities such as common computer centre, 8 mbps connectivity, modular auditorium and library are being provided. Separate hostels for boys & girls, canteen, 24x7 power back-up, Document Centre, Departmental Store are also available inside the campus. The

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University will be moving to a sprawling 250 acres own campus to cater to the needs of the Post Graduate students and Research Scholars with the most modern laboratories and smart classrooms.

Technical Academic Staff College (TASC)

5.17 Within the University Campus, 10 acres site will be totally earmarked to establish a Technical Academic Staff College (TASC), the first of its kind in India with international standards to cater to technical inputs in teaching methodology and to conduct faculty development programmes to showcase the latest scenario to the teaching community.

ANNA UNIVERSITY, TIRUCHIRAPPALLI

5.18 Anna University, Tiruchirappalli was established as per Tamil Nadu Act 41 of 2006 and came into force from 01.02.2007 and is now functioning at Bharathidasan Institute of Technology Campus. The Bharathidasan Institute of Technology is transferred to this University along with land, buildings, infrastructure facilities, staff and students. The University has 59 Engineering colleges under its control spread over Tiruchirappalli, Theni, Thanjavur, Sivagangai, Tiruvarur, Ramanathapuram, Pudukkottai, Nagapattinam, Dindigul, Cuddalore, Perambalur, Ariyalur districts of Tamil Nadu. It includes one Government Engineering college, one constituent college, Central Electrochemical Research Institute (CECRI) located at Karaikudi and 56 self financing colleges.

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5.19 Anna University Tiruchirappalli has established five University engineering colleges at Tiruchirappalli (University Campus), Ariyalur, Panruti, Ramanathapuram and Thirukkuvalai with an intake of 240 students in each institution. PG programmes through Modular Based Credit Banking Scheme have been introduced and the teachers working in technical institutions will be highly benefited through this scheme. PG degree programme in Nanoscience and Technology and unique programmes like Dual Degree Programme in Information Technology (for non-IT students) to enhance the IT skills of the students of core engineering disciplines and Integrated MBA Programme (for all engineering students) to enable them to acquire managerial skills, are introduced from the academic year 2008-2009. Modernization of Laboratories and creation of appropriate infrastructure to meet the international standards are the main objectives and schemes for the year 2009 – 2010.

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ANNA UNIVERSITY, TIRUNELVELI

5.20 The Anna University, Tirunelveli was established as per the Tamilnadu Act 28 of 2007 and is now functioning at Government College of Engineering, Tirunelveli. The University has 54 Engineering colleges under its control spread over Tirunelveli, Kanyakumari, Thoothukudi, Virudhunagar and Madurai districts of Tamilnadu. It includes one Government Engineering College located at Tirunelveli, One Government aided Engineering College and 52 Self Financing Engineering colleges. The University is implementing e-Governance in administration and functioning of the University.

5.21 To Provide quality education in the field of Engineering and Technology and to enhance the quality of technical teachers in the field of Engineering and Technology and to attract the young and innovative minds to practice research in the field of Science & Technology are the objectives of this University.

5.22 This University has established the Departments of Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Electronics & Communication Engineering, Management Studies, Electrical & Electronics Engineering and Science & Humanities.

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6. TAMILNADU SCIENCE AND TECHNOLOGY CENTRE

6.1 Tamilnadu Science and Technology Centre, established by the Government of Tamilnadu in 1983 as an autonomous body, is functioning under the Chairmanship of Hon'ble Minister for Higher Education. The main objective of the Centre is to popularize Science and Technology among the common people in general and students in particular. Tamilnadu Science Technology Centre has set up a Science Centre including a planetarium in Chennai known as Periyar Science and Technology Centre. The Planetarium facility, known as B.M.Birla Planetarium, was dedicated to the Nation on 11.05.1988 and the Halls of Science and Technology was dedicated to the Nation on 17.09.1990. There are 700 interactive exhibits in the galleries.

6.2 The Anna Science Centre at Tiruchirappalli was dedicated to the Nation on 10.06.1999. The Centre has Planetarium, Science Park, Non-Conventional Energy Park and gallery on Environment.

6.3 The activities of the Science and Technology Centre include organising science and technology based temporary exhibitions, conducting workshops, seminars, lectures, short-term courses, astronomy camp, competitions like quiz, essay, elocution, drawing, maths talent contest, astronomy Olympiad, astronomy talent contest, 'meet your scientist'

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and 'meet your medical expert' programmes, short term astronomy courses, computer courses, sky observation camps during special astronomical events, teacher training programmes and many more. Further, sky watch programmes through Telescopes are organised for the public on regular basis, on every second Saturdays. A Mobile Science Exhibition unit, comprising 24 built-in participatory exhibits and mini-planetarium has been in continuous operation to popularize science and technology among the rural public and the student community.

6.4 Model of Vermi culture Park is opened to the public at Chennai. Also, a Mirror Dome facilities at B.M. Birla Planetarium at a cost of Rs. 20.00 lakhs was opened to public on 25.04.2009.

6.5 The following ongoing projects started during the year 2008-2009 will be completed during the current financial year:-

- a) It has been proposed to establish State level Renewable Energy Park, at Periyar Science and Technology Centre Campus, Chennai at the cost of Rs.124.00 lakhs with the financial assistance of Ministry of Non-Conventional Energy Sources, Government of India and Government of Tamilnadu. The work is under progress.

- b) It has been proposed to establish 3-D Science Theatre at Anna Science Centre, Tiruchirappalli at a cost of Rs.15.00 lakhs. The work is under progress.
- c) In order to popularise the matters relating to Astronomy among the students all over Tamilnadu it has been proposed to create Portable Planetarium at a cost of Rs.15.00 lakhs. The work is under progress.

6.6 In order to cater to the needs and meeting the demand of the people of the other regions of Tamilnadu, the following new educational facilities will be dedicated during the current financial year.

- A District Science Centre at Vellore at a cost of Rs.295 lakhs.
- A District Science Centre at the campus of Madurai-Kamaraj University, Madurai at a cost of Rs.270 lakhs.
- Regional Science Centre at Coimbatore at a cost of Rs.650 lakhs. The Government of India, Ministry of Culture and Government of Tamilnadu have already released a sum of Rs.650 lakhs for the project. The construction works have been commenced already during October 2008.

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6.7 In addition to the above the following new schemes will also be completed during the current financial year:-

Evolution Park

It has been proposed to establish an Evolution Park at Periyar Science and Technology Centre, Chennai at a cost of Rs.45 lakhs. The park will possess the facility for depicting from a single cellular organism to the Precambrian objects.

Modernisation of Life Science Gallery

It has been proposed to undertake the work regarding modernisation of Life Science Gallery in Periyar Science and Technology Centre at Chennai at a cost of Rs.15 lakhs.

Defence Gallery

Defence Research Development Organisation Gallery will be formed at the cost of Rs.41.30 lakhs in the Periyar Science and Technology Centre, Chennai for exposition of exhibits. In that gallery, exhibits will be fabricated at a cost of Rs.52 lakhs by Defence Research Development Organisation.

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7. TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

7.1 The Tamilnadu State Council for Science and Technology was established by the Govt. of Tamilnadu as an autonomous organization. Its objectives include encouraging research activities particularly with social relevance among researchers and academicians; motivating scientific and technological thinking among students and creating scientific awareness among people.

7.2 Since its establishment in 1984, the Council has implemented more than 100 research projects with social relevance and has organized popularization of science and technology programmes benefiting about 10 lakhs of people. It has interacted with scientific departments of the Government of India and has obtained financial support for various activities.

The following programmes will be organized during the year 2009-2010

Science and Technology Projects

7.3 Under this scheme financial assistance to the tune of Rs.2.00 to 3.50 lakhs for a period of 2 years is provided to scientists and researchers for carrying out R&D work having social relevance and usefulness to our

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State. Projects in sectors such as Agriculture, Environmental Sciences, Physical Sciences, Biological Sciences, Veterinary Sciences, Medical Sciences, Social Sciences & Engineering and Technology etc will be undertaken to contribute to the development of our state. During the year 2009-10 Scientists and Research Scholars working in Universities, Colleges and Research Centres in Tamilnadu will be provided funds for projects to the tune of Rs.15.00 lakhs. About 5-7 research projects will be supported which will benefit 500 researchers and students.

Student Projects Scheme

7.4 This scheme is aimed at utilizing the potential of student talent for the development of Science and Technology. Final year students of UG/PG courses in Engineering/ Medicine/ Agriculture/ Veterinary Sciences and P.G. Students of Sciences are provided with a maximum grant of Rs.10000/- for carrying out socially relevant projects under their curriculum. During the year 2008-09, about 190 student projects were supported with a budget of Rs.11.50 lakhs and 600 students were benefited. During 2009-10, 200 Student Projects will be supported with a total budget of Rs. 15.00 lakhs and about 650 students will be benefited.

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Partial Assistance for Seminar/ Symposium/ Workshop

7.5 The aim of this scheme is to foster exchange of scientific knowledge and also facilitate interaction between various groups of people such as teachers, scientists, industrialists, research scholars and others. Under this scheme, partial financial assistance is provided to the organisations within the State of Tamilnadu, who organize such seminars/ symposia/ workshops. Scientists, College teachers and research scholars will be benefited by this scheme. During 2008-2009, 16 organisations have been supported with a total outlay of Rs.2.80 lakhs benefiting about 1600 scientists. During the year 2009-10, it is proposed to support 25 seminars, conferences with a total outlay of Rs.5.00 lakhs benefiting about 2500 persons which include scientists, college teachers and research scholars.

Travel Grant for Young Scientists

7.6 Under this scheme, young scientists and researchers below 40 years of age and working in organisations (University/ College/ Research Centre) located within the State of Tamilnadu are provided with 50% of air fare in case of international conferences and 100% train fare (First class) in case of national conferences to participate in such scientific conferences and present their research findings. During 2008-2009, 12 scientists have been supported with a total outlay of Rs.2.5 lakhs. During 2009-2010, it is proposed to provide 20 Scientists with grants with a total outlay of Rs.5.00 lakhs.

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Young Scientists Fellowship Scheme

7.7 The aim of this scheme is to encourage young scientists and researchers below 35 years of age to acquaint themselves with latest techniques in science research and development. They are provided with a fellowship of Rs.3000/- p.m. for a period of 2 to 6 months in addition to their regular salaries by their parent institutions. Selected Scientists can undergo training/learn sophisticated instrumentation techniques or modern research methodologies or do collaborative research work with senior scientists in any of the Research Centers/ Universities within India. During 2008-09, 10 scientists have been supported with a total outlay of Rs.1.2 lakhs. During 2009-2010, it is proposed to support 15 Young Scientists with fellowship with a total grant of Rs.2.00 lakhs.

Tamilnadu Scientists Award (TANSA)

7.8 The objective of this scheme is to encourage and honour scientists and researchers who have made significant contribution in their fields of specialization through their skill/pioneering or outstanding applied research work and any other activities leading to S&T development in the State. Each selected scientist is awarded a sum of Rs.10,000/- in cash and a citation. Awards are given in different disciplines such as (i) Agriculture (ii) Biology (iii) Chemistry (iv) Engineering and Technology (v) Environment (vi) Medicine (vii) Mathematics (viii) Physics (ix) Social Sciences (x) Veterinary Sciences, etc. During 2009-10, it is proposed to allocate Rs.3.00 lakhs for implementing this scheme. About 10 Scientists will be honoured.

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Popularisation of Science and Technology

7.9 The objective of this scheme is to popularize Science and Technology among school children, farmers and public. Under this scheme, financial support is provided to Universities, Colleges and Voluntary Organisations to conduct Science Exhibitions, Teacher Training Programmes, Popular Lectures, Video/Slide Shows, Quiz Competitions etc. on various aspects of Science and Technology. During the year 2008-2009, 100 organisations were supported with a total budget of Rs.8.50 lakhs to conduct various programmes and about 2,00,000 students, researchers and public were benefited. During the year 2009-2010, 120 educational institutions and voluntary organisations will be provided with financial assistance of Rs.10.00 lakhs to popularise science and technology among masses and students. Totally 2,50,000 persons including large number of students will be benefited.

Young Student Scientist Programme

7.10 The objective of this scheme is to expose talented young students of our State studying in IX std., to science and technology so that they take up science and technology as their career in future. Students from various districts through an entrance test are selected and given this exposure in a reputed college/ university with facilities and resource persons for one month i.e during May. During 2008-09, 400 students from 10 districts have been trained with an outlay of Rs. 10 lakhs. During 2009-10, 800 ninth standard students will be trained for one month period in 10 centres covering 20 educational districts with an outlay of Rs.20.00 lakhs.

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Dissemination of Innovative Technology

7.11 Large number of research projects are carried out in our state. These work lead to beneficial technology and scientific activities. It takes some time for the results of these research to reach the beneficiaries. It is necessary to identify methods to promote these new technologies to reach the beneficiaries at the earliest. Having this as aim, through the scheme of Technology Innovation and Dissemination, innovations with potential for field applications will be disseminated by educationists and scientists through training programmes and workshops. During 2008-09 a total of 14 programmes have been supported under this scheme with a total cost of Rs.5.00 lakhs benefiting about 400 participants. During 2009-10 it is proposed to implement this scheme with an allocation of Rs.7.50 lakhs for the benefit of about 600 participants.

Quality Improvement of Science Education in Rural Schools

7.12 The objective of the programme is to improve the quality of science education, particularly for the benefit of rural school children. It is proposed to conduct "In service Training programme" for the Science Teachers who are handling the Science subjects of 6th to 8th standards. Tamilnadu State Council is planning to organize the training programmes in the educationally backward districts. In each district, 50 secondary grade

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science teachers will be selected with the help of School Education Department. The programme will be conducted for 5 days at well established Arts and Science Colleges. Difficulties in the syllabus identified by the secondary Grade teachers will be taught in the morning session in addition to practical demonstrations in the evening. During the year 2009-2010 it is planned to conduct 10 training programmes for school teachers with an allocation of Rs.8.00 lakhs and about 500 teachers will be benefited.

Science and Technology Publications

7.13 The objective of this scheme is to bring out scientific publications in Tamil especially useful to children and general public. Under this scheme financial assistance is provided to organizations publishing such magazines/books. Every year about 5 such magazines/ books are supported through this scheme. These publications will help to spread science and technology among children and the mass. Financial assistance is also provided to scientists to bring out text books in Tamil for the use of students. Encouragement is given to teachers in colleges throughout Tamilnadu to bring out Science and technology publications in Tamil which will foster creative talent among students particularly in rural areas. During the year 2009-2010, this scheme will be implemented with an allocation of Rs.0.30 lakhs.

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Science and Technology Capacity Building for Industrial Needs

7.14 The objective of this programme are two fold (a) to enable graduates to acquire skill sets, relevant to industries and thereby motivate them to opt for self-employment. (b) The one month programme would act as a bridge course reinforcing Institute-Industry interaction. This proposed bridge programme will be organized with the active collaboration of industries and colleges (Polytechnics included). Representatives of industries will identify the need based skill sets and the faculty of industries will assist the college teachers in imparting them to the participants. By these skill sets the graduates become more employable. During the year 2009-10 programmes will be supported with a total budget of Rs10.00 lakhs benefiting 500 unemployed graduates.

Application of Science and Technology in Rural Areas

7.15 The Scheme envisages the transfer of science and technology techniques and findings to rural areas in order to uplift the economic status of the people. The objectives of the programme "Application of Science and Technology in Rural Areas" is to apply science and technology to uplift the socioeconomic and educational status of the people in backward panchayats in districts of Tamilnadu. Management techniques for bringing up milch animals, goats, sheep and poultry will be imparted to the people. Advanced integrated management techniques for increased

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agricultural production will be attempted. Technologies for afforestation will be introduced. Artisans will be helped to adopt new scientific techniques. NGOs will be provided assistance in implementing the scheme. During the year 2009-2010, this programme will be implemented at a cost of Rs.10.00 lakhs to benefit 1000 farmers and artisans.

7.16 During 2009-2010 the Council will be implementing two schemes with 100% financial support from the Department of Science and Technology, Govt. of India.

- a) The Department of Science and Technology has provided Rs.3.20 lakhs for conducting Awareness programmes through special lectures, exhibitions and rallies at five districts : Tirunelveli, Tiruppur, Erode, Vellore and Thoothukudi which will benefit 1,00,000 people.
- b) Drinking water purification demonstration units provided by the Department of Science and Technology will be installed in 20 Government schools. Through these, students will be educated on water pollution and need for sanitation. The efficiency of the technology will also be tested. The Department of Science and Technology is providing financial support of Rs.3.10 lakhs for implementing the scheme, which will benefit 25000 students.

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8. SCIENCE CITY

8.1 The entire Guindy -Taramani institutional belt consisting of about 60 educational and research institutions like Anna University, Indian Institute of Technology (IIT), Central Leather Research Institute (CLRI), and Tamil Nadu Science and Technology Centre etc. belonging both to Central and State Governments has been declared as Science City. Promoting Science and Technology is the objective of Science City. Science City contains more than 1500 Ph.D holders and 3500 research scholars and more than 1500 research projects in the fields of Science and Technology. There are equipments worth Rs.500 crores available for various programmes. Science City is implementing several programmes connected to the development of Science and Technology.

8.2 Promotion of Science and technology components involving existing and new institutions, encouraging the technology transfer component involving industrial houses and venture capital agencies, Promoting the global technology monitoring and forecasting and establishing a fully equipped science complex (convention centre) for the benefit of member institutes of the Science City are the important goals of the Science City.

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8.3 The Popularization of science programme comprises various activities such as Popular Lectures, Meet the Scientist programme, Organizing Conferences/ Seminars in association with member institutes, organizing Science Exhibitions, Children's Science Academy Awards, Science Camps etc. Since inception, 348 students mostly with a rural background were awarded the Children's Science Academy Awards.

8.4 Science City has created a database of women scientists in the entire state of Tamilnadu. In order to encourage the women scientists, Science City has instituted 'Lifetime Achievement award for Women' and 'The Tamil Nadu Young Women Scientist' Awards. Since inception, 32 Women scientists have been conferred the Tamilnadu Young Women Scientists Award and 12 Women Scientists Life time Achievement Award.

8.5 A Data Centre has been created and information on various Higher Education institutes like Engineering Colleges, Polytechnics, Institutes of Hotel Management and Catering Technology have been made available on the existing website www.sciencecitychennai.com. Advice and services on patent related information is done through e-mail (scicity@dataone.in). Information on worldwide funding agencies for science related projects, world wide

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research organizations, science forums and developments in science and technology have also been ported to the web. The student community, researchers and scientists will be benefited by these informations.

Science for the Physically Challenged

8.6 Science City organised 4 programmes this year for the benefit of the Physically Challenged students in Science and Technology. Around 100 physically challenged students from different schools in Chennai were invited to attend each programme. The total cost of the above programmes was Rupees two lakhs.

Workshop in Science Communication

8.7 Science City has proposed to conduct two four day workshops about different issues related to Science & Technology, how Science and technology could be harnessed to solve the different complex problems in the society keeping in pace with Scientific development. Participants will be trained on the basic skills in writing scientific stories, features, articles and scripts for different media like print media as well as the sophisticated electronic media. The total cost of this programme is Rs.8.00 lakhs.

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Chennai Science Festival

8.8 The Chennai Science Festival would be usually organized in the month of February every year. The Science Festival will comprise scientific exhibitions, with exhibits put up by around 40-50 renowned organizations, the award winning exhibits from schools and colleges, demonstrations by faculty, scientific film shows, interactive sessions with eminent scientists. Besides this, steps have been taken to conduct competitions like quiz, essay, oratorical, puppetry shows etc. The Total cost involved would be around Rs.30.00 lakhs.

ACTIVITIES / SCHEMES PROPOSED TO BE UNDERTAKEN DURING 2009-10

Science for the Physically Challenged

8.9 It has been decided to organize 10 programmes in Science and Technology during the forthcoming year for the benefit of the different categories of Physically Challenged students such as visually challenged, speech and hearing impaired and slow learners. Physically challenged students from different schools in and around Chennai will be invited to attend each programme. The total cost of the programme is Rs.4.00 lakhs. Last year 4 workshops were organized for the benefit of 100 Physically challenged students at a cost of Rs.2.00 Lakhs.

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Awareness Campaign in Frontier Technologies

8.10 Awareness campaigns will be organised for a period of 4 days each on Frontier Technologies such as Stem Cell Technology, Nanotechnology, and on Information & Communication Technology. The participants will be exposed to various aspects of each field. The morning session of the programme will comprise lectures by eminent scientists/academicians and in the afternoon participants will be taken to leading laboratories involved in intensive research in the respective fields. The total cost involved would be Rs.4.50 lakhs.

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9. TAMIL NADU ARCHIVES

9.1 Of all national assets Archives are the most precious. They are the gift of one generation to another. The Madras Record Office set up in 1805 A.D., is the oldest in the country, preceding even the British Record Office by 33 years. The present Tamil Nadu Archives complex was built in 1909 A.D. and completing a century of existence in 2009.

9.2 The basic function of the Tamil Nadu Archives is to preserve and protect Secretariat and departmental records, which have been transferred to the Archives as per the prescribed policy. Tamil Nadu Archives is a doctoral research centre in modern history affiliated to the University of Madras and offers research facility to Indian and Foreign scholars. It also imparts a Training Programme in Record Management. It maintains an Archival Library with a holding of 2.30 lakhs rare books.

9.3 The District Record Centres functioning at Madurai, Thiruchirappalli, Coimbatore, Salem, Thanjavur and Cuddalore collect and preserve records from the district level offices. District Gazetteers of Tamil Nadu are prepared and published by the Tamil Nadu Archives.

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9.4 Under 12th Finance Commission grant-in-aid for heritage conservation, various renovation and restoration projects are being under taken in Tamil Nadu Archives. Like wise under Part II Schemes Tamil Nadu Archives is being progressively modernized and computerized.

9.5 It is proposed to purchase multi-functional photocopiers for District Record Centres, provision of fire safety measures in District Record Centre at Coimbatore, provision of Internet connectivity to research scholars in the Tamil Nadu Archives and to the District Record Centres and purchase of books and lamination machine for Tamil Nadu Archives Library.

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10. TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION

10.1 Tamil Nadu State Council for Higher Education was established as an autonomous body by an Act of the Tamil Nadu Legislative Assembly in 1992 for the promotion and co-ordination of Higher Education at the State Level and for co-ordination of state level programmes with those of the University Grants Commission. The Honorable Minister for Education is the Chairman of the Council.

10.2 To advise the Government or any University/College or institution of Higher Education on any matter relating to Higher Education and research which they may refer to the Council; to forward the developmental programmes of Universities, Colleges and Institutions of higher education to the University Grants Commission along with its comments and recommendations and monitor the progress of implementation of such developmental programme; to promote co-operation and co-ordination of institutions of higher education among themselves and explore the scope of interaction with industry and other related establishments; to suggest ways and means for augmenting additional resources for higher education in the State; to encourage and promote innovations in curriculum development, restructuring and updating of syllabi in Universities and autonomous colleges and suggest necessary reforms; to assist the University

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Grants Commission in respect of determination and maintenance of standards and suggest remedial action wherever necessary; and to promote and co-ordinate programmes of Universities and Colleges, set up a monitoring system and monitor its implementation are the important functions of the Council.

During the Financial Year 2008-2009 the Council engaged in the following activities to improve the standard of Higher Education in Universities and Colleges:-

10.3 Tamil Nadu State Council for Higher Education has made efforts to publish 16 text books of various subjects in Tamil to cater to the need of the Tamil Medium students studying in Govt. Arts & Science Colleges. This work was carried out with the financial assistance of the MHRD. Experts of different faculties were involved in this work. These books were released by our Hon'ble Chief Minister on 1st September 2008. At present TANSCHHE is engaged in distributing books to all Government Arts & Science and aided colleges.

10.4 As decided during 58th Council Meeting, the council had honoured 10 'Best Teachers' from various faculties in appreciation of their contribution in their field. Each awardee was presented with a citation along with a cash award of Rs.10,000/- by Hon'ble Chief Minister. This scheme may be extended in future also to promote a healthy competition among teachers.

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10.5 The council during 63rd meeting proposed a novel idea of introducing the scheme of partial financial assistance to 'students mini project' to inculcate and promote the awareness and importance of basic research. The beneficiaries of this scheme are the students of Govt. Arts & Science colleges in Tamil Nadu.

10.6 An intensive orientation cum training programme was given to 501 newly recruited teachers for Govt. Arts & Science colleges for 24 days (Oct 13 to Nov 8, 2009) The training was conducted in Chennai city at 12 nodal centres. This programme received a very good appreciation from both the participants and the resource persons.

Proposals for the year 2009-2010

10.7 The Council proposes to initiate/continue its activities in the following areas by obtaining grants under plan schemes: -

- The training given to newly recruited Government college teachers has received good response from the beneficiaries. As this training has very good impact on teaching skills and more such programmes are planned in future.
- Under the Choice based Credit system, there are proposals to conduct workshops for teachers engaged in Skill Based Elective Subjects.

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- The newly introduced "Students Mini Project" scheme has received overwhelming response. At present students of Government Arts & Science Colleges alone are eligible for this scheme. The council has a proposal to extend this scheme to students of Aided colleges also.
- The art of writing article is lacking among the teachers. Hence there is a proposal to conduct workshop to give orientation in art of writing articles, project proposal etc.,
- Like the students mini project scheme there is a proposal to fund Project proposals from college teachers also.
- Preparation is undergoing to conduct seminars on enriching the scope of Basic sciences.
- Preparation to release journals in Science and Humanities
- Assisting the Universities in improving the examination system
- Clustering of Institutions to get the full benefit of Choice Based Credit System introduction
- Supporting research activities in Higher Education
- Developing Centre of Excellence in the State Universities
- Promoting the introduction of Unitary Universities
- Monitoring the Academic Audit implementation in institutions.

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11. TAMIL NADU STATE URDU ACADEMY

11.1. Tamil Nadu State Urdu Academy was established in the year 2000, as ordered by the Hon'ble Chief Minister of Tamil Nadu Dr.Kalaignar M.Karunanidhi, with a view to improve the growth and development of Urdu language in Tamil Nadu. The Academy is functioning under the Chairmanship of Minister for Higher Education.

11.2. The Government has so far sanctioned Rs.31/- lakhs from the date of inception of the Academy for the implementation of various schemes for the benefit of Urdu language. The Academy has also conducted seminars, Mushairas and given financial assistance to Urdu poets / literates for the publication of their books. The books published with the assistance of Government funds have been sent to all the State Government Urdu Academies and to various Schools / Colleges through out Tamil Nadu.

**கூழாங்கற்களை வைரமாக்கும் கல்விமுறை
வேண்டும்!**

**வைரத்தில் எண்ணெய் இறங்கிட வைத்திடும்
கல்விமுறை கூடாது!**

- டாக்டர் கலைஞர் மு.கருணாநிதி

Dr. K. Ponmudy
Minister for Higher Education

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COLLEGIATE EDUCATION

Annexure- 1

Number of colleges in the State 2008-2009

Type of Colleges	Government Colleges	Management		Total
		Aided Colleges	Self Financing (Unaided)	
Arts and Science Colleges	62	133	353	548
Physical Education	-	3	10	13
Oriental	-	10	-	10
School of Social Work	-	2	-	2
College of Education	7	14	543	564
University Colleges	8	-	-	8
Total	77	162	906	1145

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Annexure- 2
ARTS AND SCIENCE COLLEGES
Students Strength 2008-2009

Type of College	Sanctioned Strength						Admitted Strength					
	UG	PG	M.Phil	Ph.D.	B,Ed	Total	UG	PG	M.Phil	Ph.D.	B,Ed	Total
Govt. Colleges	47454	3759	463	141	1053	52870	44631	3699	456	138	1053	49977
Aided Colleges	97452	19503	2432	422	1760	121569	80356	16169	2395	413	1760	101093
Self-financing Colleges	107861	25211	1053	207	14817	149149	81467	12965	1079	196	13905	109612
Total	252767	48473	3948	770	17630	323588	206454	32833	3930	747	16718	260682

‘எண்ணிக்கையை அதிகரிப்போம்’

‘நரத்தினை உயர்த்துவோம்’

TECHNICAL EDUCATION

Annexure – 3

Details of number of Polytechnic Colleges , sanctioned strength and students admitted in Polytechnic Colleges during the academic year 2008-2009

Category	No. of Institutions	Sanctioned Intake	Admitted	OC		BC (Others)		BC (Christian)		BC (Muslim)		MBC		SC		ST		Total	
				Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Govt.	22	6085	5747	105	54	1448	948	121	85	148	53	989	567	733	431	51	14	3595	2152
Govt. Aided	34	13453	12614	418	95	5171	1380	263	95	248	56	2484	591	1438	316	52	7	10074	2540
Affiliated	3	215	139	0	0	45	1	6	0	9	0	35	0	43	0	0	0	138	1
Self Financing	258	90844	82477	6088	621	34442	3350	1450	157	1840	80	22426	1527	9567	720	192	17	76005	6472
Total	317	110597	100977	6611	770	41106	5679	1840	337	2245	189	25934	2685	11781	1467	295	38	89812	11165

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‘நரத்தினை உயர்த்துவோம்’

Annexure - 4

Details of number of Engineering Colleges , sanctioned strength and students admitted in Engineering colleges during the academic year 2008-2009

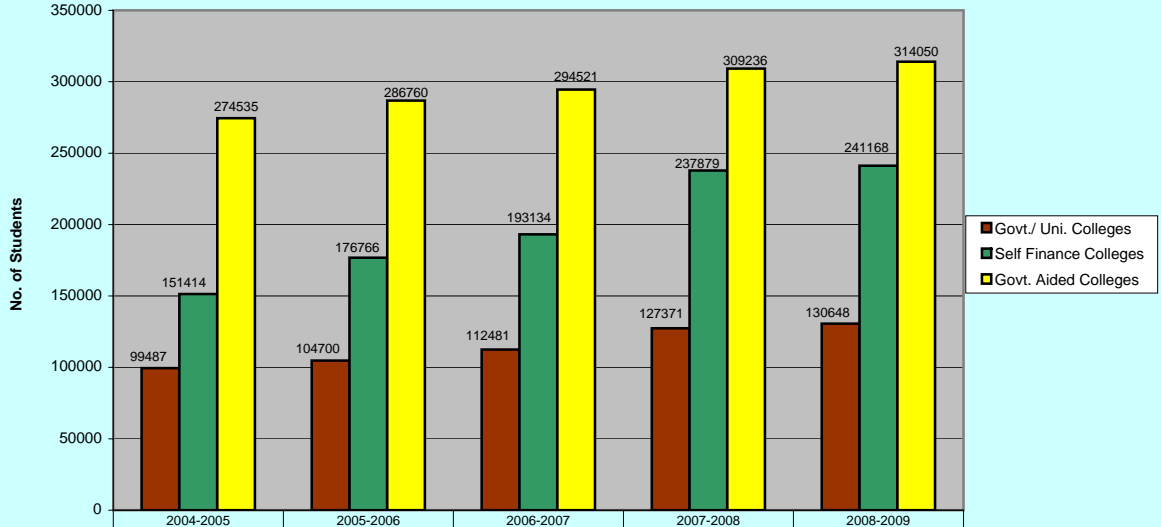
Category	No. of Institutions	Sanctioned Intake	Admitted	OC		BC (Others)		BC (Christian)		BC (Muslim)		MBC		SC		ST		Total	
				Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Govt.	6	1900	1866	107	57	490	341	42	33	45	17	248	133	197	138	12	6	1141	725
Govt. Aided	3	2410	2429	268	124	668	425	53	29	51	21	261	171	210	129	11	8	1522	907
Affiliated	11	4460	4366	502	411	860	544	88	76	91	63	550	344	496	291	32	18	2619	1749
Self Financing	335	127370	114270	15347	7896	28286	19366	3051	2402	3327	1240	14504	7655	7207	3807	129	53	71851	42419
Total	355	136140	122931	16224	8488	30304	20676	3234	2540	3514	1341	15563	8308	8110	4365	184	85	77133	45800

‘எண்ணிக்கையை அதிகரிப்போம்’

‘தரத்தினை உயர்த்துவோம்’

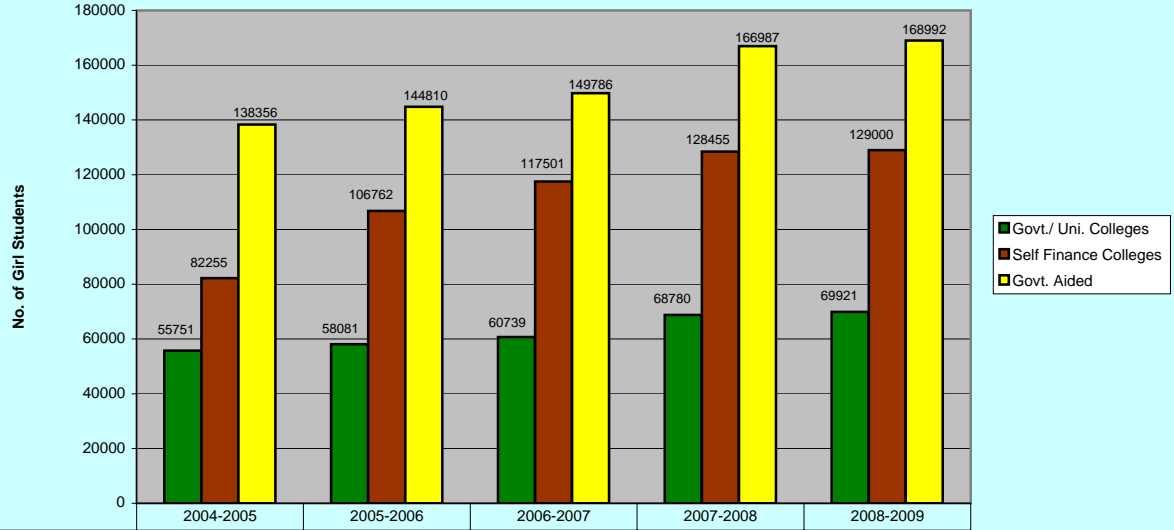
CHART - I

NUMBER OF STUDENTS IN ARTS AND SCIENCE COLLEGES IN TAMILNADU



Govt./ Uni. Colleges	99487	104700	112481	127371	130648
Self Finance Colleges	151414	176766	193134	237879	241168
Govt. Aided Colleges	274535	286760	294521	309236	314050

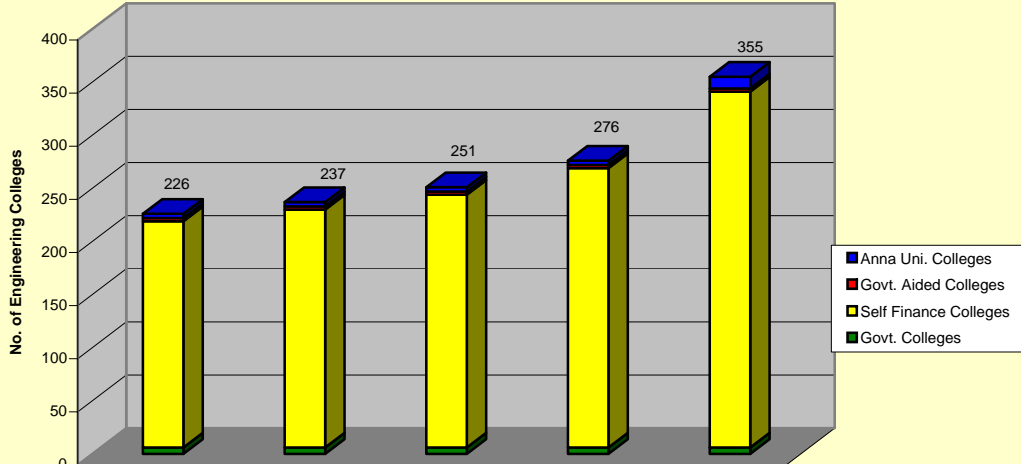
CHART - II
NUMBER OF GIRL STUDENTS IN ARTS AND SCIENCE COLLEGES IN TAMILNADU



Govt./ Uni. Colleges	55751	58081	60739	68780	69921
Self Finance Colleges	82255	106762	117501	128455	129000
Govt. Aided	138356	144810	149786	166987	168992

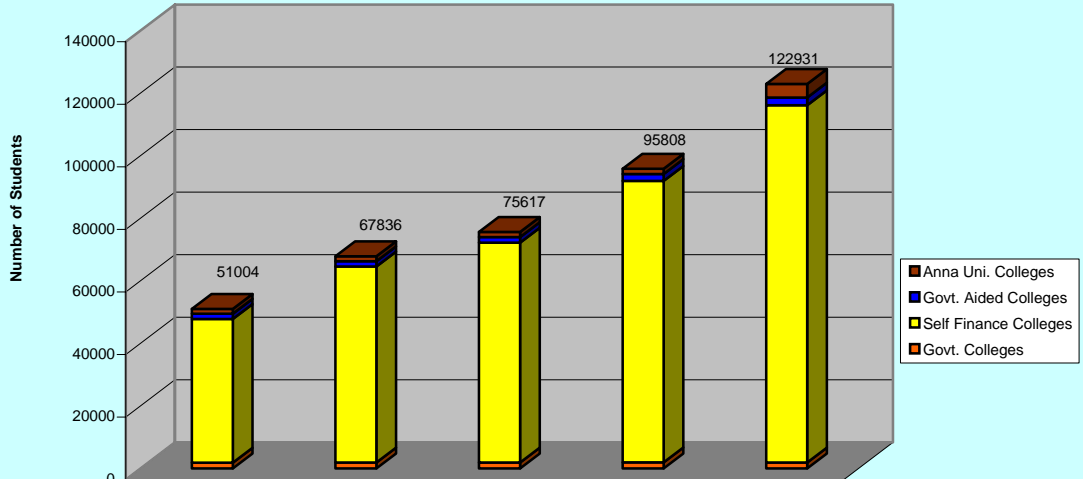
CHART - III

NUMBER OF ENGINEERING COLLEGES IN TAMILNADU



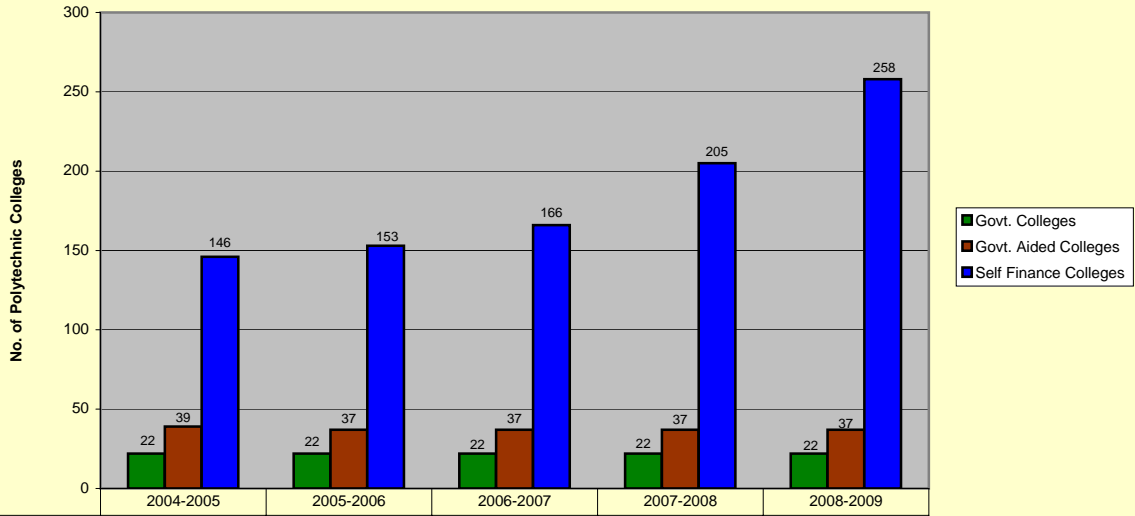
	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
■ Anna Uni. Colleges	4	4	4	4	11
■ Govt. Aided Colleges	3	3	3	3	3
■ Self Finance Colleges	213	224	238	263	335
■ Govt. Colleges	6	6	6	6	6

**CHART - IV
ENROLMENT IN ENGINEERING COLLEGES IN TAMILNADU**



	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
■ Anna Uni. Colleges	1538	1575	1664	1681	4366
■ Govt. Aided Colleges	1675	1728	1788	2209	2429
■ Self Finance Colleges	45934	62648	70291	89985	114270
■ Govt. Colleges	1857	1885	1874	1933	1866

**CHART - V
NUMBER OF POLYTECHNIC COLLEGES IN TAMILNADU**



	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
Govt. Colleges	22	22	22	22	22
Govt. Aided Colleges	39	37	37	37	37
Self Finance Colleges	146	153	166	205	258

CHART - VI
ENROLMENT IN POLYTECHNIC COLLEGES IN TAMILNADU

