

POLICY NOTE

DEMAND NO. 20 - HIGHER EDUCATION 2012 – 2013

INTRODUCTION:

“Tamil Nadu will be known as the Innovation hub and knowledge capital of India, on the strength of World Class Institutions in various fields and the best human talent”.

Hon’ble Chief Minister of Tamil Nadu
Vision Tamil Nadu 2023

1.1 Tamil Nadu is moving ahead with potential, taking giant strides towards development, thanks to the dynamic vision of the **Hon’ble Chief Minister of Tamil Nadu** and her guidance. The higher education sector is in sharp focus as acquisition of knowledge and multiple, varied and relevant skills can alone propel the blossoming of man power, which will rejuvenate the state in terms of social and economic growth.

1.2 While ensuring access and equity, the **Hon'ble Chief Minister of Tamil Nadu** with a world leader vision, has been leading the Higher Education sector to ensure quality of world standards. The immediate requirement and the need of the hour, being quality, the Tamil Nadu Government have put in place schemes to re-orient Higher Education making participating in it, attractive, rewarding and satisfying, for all concerned.

1.3 The demand for higher education in India has been fuelled by an increasingly young population. It has been targeted to achieve a GER (Gross Enrolment Ratio) of 25% by 2025. This target means we have to provide enough and more opportunity for our youth to pursue Higher Education. Enrolment of students especially girls in the Higher Education sector on a large scale can be achieved, by establishing more number of colleges and Universities during the XII five year plan. Further, teaching and learning need to be modernized to match

international standards and the demands of the century.

1.4 Higher Education is a critical pillar of human development forming the capstone of traditional education system. It provides not only the high-level skills necessary for labour markets, but also the training essential for Teachers, Doctors, Engineers, Civil Servants, Scientists, Entrepreneurs and other professionals. It is these trained individuals with analytical skills and capability, who make important decisions affecting the entire community.

1.5 Special emphasis is being laid on the welfare of economically backward sections of the society besides differently abled students. Provisions will be ensured for achieving gender equity in higher education and rural – urban imbalance will also be corrected. Further, there will be scope for getting together students community, faculty members, Research and Development Institutes and other stake-holders,

towards achieving excellence in the realm of higher education. Industry-Institute tie-up is the missing link which has to be given a major thrust in the current global scenario pertaining to education. Further, there must be scope for providing opportunities to faculty members to upgrade their knowledge based on the developments taking place across the world. The most vital component in this regard would be upgradation of the quality of human resource, making it innovative, professional and creative. A knowledge based work force with the ability to imbibe new skills and knowledge independently, which will deliver the goods with dedication and maturity, will emerge from the portals of higher education in Tamil Nadu.

1.6 THE VISION OF THE HIGHER EDUCATION SECTOR IS:-

- To make Institutions of Higher Education emerge as centres of innovation, excellence and development.
- To provide world class quality education especially to students from rural and

backward areas and marginalised families and to develop, recognise and enhance talent and skills in youth.

- To equip and enable youth to meet the emerging challenges and demands of the century with due emphasis on inclusion in higher education.

1.7 THE MISSION

“To promote Human Resources Development through self-actualised Institutions, producing high quality ethical professionals in sufficient number to make this State and Country prosperous; and to make Tamil Nadu a global hub for University Education”.

1.8 THE OBJECTIVES ARE:-

- To provide and improve the quality of Higher Education in Arts, Science and Technical Education.
- To impart Education of world class standards.
- To facilitate Institution-Industry linkage for inculcating entrepreneurial culture, encouraging Research and Development

and upscaling of skill development for gainful employment.

- To popularize Science and Technology among people.
- To revitalize and reorganise Distance Education Programmes.

1.9 THE FOLLOWING STRATEGIES ARE BEING ADOPTED TO REALISE THE OBJECTIVES:-

- To grant autonomy to Higher Educational Institutions to choose their courses and syllabi to meet the global Human Resource demand.
- To Merge Anna Universities of Technology with Anna University to restore its past glory and credibility, lost due to decentralization.
- To fix fee structure in Government, Government-Aided and Self financing colleges, keeping in view the students from economically weaker sections.
- To promote inclusive Socio-Economic Development of the State by offering Higher Education to the students who belong to weaker sections of society.

- To upscale Universities in order that they become Centres of Excellence through research and development.
- To rank Universities and Colleges based on their performance in the area of curriculum and courses offered, keeping abreast of the latest world trends in pedagogy, infrastructure etc.
- To implement e-governance in administration.

1.10 **THE TAMIL NADU EDUCATIONAL SCENARIO:**

Tamil Nadu has established itself as a model to other States in the field of Higher Education by making higher education more accessible to the economically weaker sections of the society hailing from socially backward, rural and marginalised families. In Tamil Nadu, we find some of India's best professional educational institutions including Madras University, Annamalai University, Anna University etc. Tamil Nadu is a preferred destination for Higher Education, because it has adequate number of educational institutions, efficient and committed

teachers including infrastructural facilities, due to the strong educational policy advocated by the **Hon'ble Chief Minister of Tamil Nadu**. The participation of state run Universities in the educational movement is also worth noting. Universities are a key part of the Higher Education System, which is also known as tertiary education, forming a net-work of institutions that support the creation of knowledge and the production of higher order capabilities.

1.11 The human development index of India is 0.619, while the corresponding figure for Tamil Nadu is 0.736, placing it among the top states in the country. The GER (Gross Enrolment Ratio) at the national level is about 13% and in Tamil Nadu it is around 18% which is more than the national average.

1.12 However the task before us now is to ensure global quality in Higher Education with the latest and best technology applications inside the class room, library, laboratories and in

administration as per the instructions and policies of the Hon'ble Chief Minister. The schemes and programmes introduced by the Government of Tamil Nadu are sine-qua-non for the ultimate growth of higher education in Tamil Nadu.

1.13 The Government of Tamil Nadu in the Higher Education Department has been actively promoting policy reforms in education, in order to make this sector more efficient, equitable, inclusive and responsive to public needs. This is due to the realization that in a knowledge economy, knowledge has become a primary factor of production along with land, labour, capital and technology.

1.14 In addition, tertiary education is vital for inclusive, social-capital and for promoting social cohesion. Several International Organisations have concluded in their reports that Higher Education is important for building skills and reducing poverty. Higher Education is important as it confers important public goods

essential to development which must be accessible to all sections of the society.

Thus Higher Education is seen as an important element of a holistic system of education, which must be flexible, inclusive and progressive for the success of the Knowledge Economy.

1.15 The 11th Five Year Plan has just now concluded. The main focus areas for Higher Education in the 12th Five Year Plan (2012-17) are to improve and achieve Accessibility, Equity, Affordability, Flexibility and Quality Standard. In order to achieve the goals, the Government have taken very definite steps and have formulated various schemes which have been implemented within a short span of time as follows: -

- (i) 42 announcements were made during the year 2011-12, out of which, orders on 41 announcements have been issued and implemented.
- (ii) For the first time in the history of higher education eleven Arts and Science colleges at Srirangam, Nemmeli,

Nagalapuram, Harur, Kallakurichi, Sattur, Vedaranyam, Tiruppattur, Thiruthuraipoondi, Papireddipatti and Nannilam which have been declared open by the **Hon'ble Chief Minister of Tamil Nadu** during the academic year 2011-12 are functioning with 2531 students. Land has been identified for all the eleven colleges.

- (iii) As announced in the Governor's Address 2011, necessary Legislation for merging of Anna Universities of Technology at Chennai, Tiruchirappalli, Madurai, Coimbatore and Tirunelveli, has been enacted. A monitoring Committee has been formed under the Chairmanship of Additional Chief Secretary to Government, Municipal Administration and Water Supply Department. Five audit teams have been constituted to oversee the existing infrastructure, manpower, workload and the logistics for the merger and establishment of Regional Centres.
- (iv) The process of Distribution of Free of cost Laptop Computers to the students studying in Government, Government Aided Arts & Science colleges / Polytechnics / Engineering Colleges is fast under way. About 1.74 lakhs free of cost laptop computers will be distributed to the final year students studying in Government / Government

Aided Arts & Science, Engineering and Polytechnic Colleges before April 2012. During the year 2012-2013, about 2.12 lakhs free of cost laptop computers are going to be distributed to the remaining students.

- (v) The work relating to fixation of Fees for professional courses like BE, B.Tech and P.G. courses like MBA, MCA by the Committee constituted under the chairmanship of the Hon'ble Justice (Retd.) N V Balasubramanian, is under speedy progress.

The Committee constituted under the Tamil Nadu Educational Institutions (Prohibition of collection of capitation fees) Act, 1992 to enquire into complaints of collection of capitation fee and charging excess tuition fees higher than that prescribed by the Committee on fixation of fees has conducted enquiry in 74 colleges based on complaints. Action has been initiated against 25 colleges upto March 2012 and this has created awareness and instilled confidence among students, parents and the general public.

- (vi) Based on the Judgment of the Hon'ble Supreme Court, a heuristic algorithm was used in preparing the Inter-se-Seniority list of the Assistant Professors

working in the Government Arts and Science College and B.Ed Colleges which had been pending for years together and this list was transparently put on the Web Site. One Post of Joint Director, Five Posts of Regional Joint Directors and One Post of Grade-I Principal have been filled up.

- (vii) The tuition fee exemption for the first generation graduate students in Professional Courses which was extended for the academic year 2011-12 has benefited 1,56,892 students.
- (viii) Consolidated pay to the Guest Lecturers has been enhanced from Rs.6000/- to Rs.10,000/- to handle shift II classes in Government Arts & Science Colleges.
- (ix) Rates of Remuneration has been enhanced uniformly to all staff working on hourly basis / part-time basis in Regular Courses / Shift System/ Evening Classes in Polytechnic Colleges and Special Institutions from Rs. 6000/- to Rs. 10,000/- (Subject to a maximum limit of Rs. 10,000/- p.m.)
- (x) The technical wing of the Directorate of Technical Education has been entrusted

with the work of listing out heritage buildings in colleges and universities for their conservation and restoration. The services of officials of Archeological Survey of India(ASI) and State Department of Archeology will be utilized for this purpose.

1.16 Special Initiatives in the march towards excellence, towards imparting education of world class standard through our Universities:

The quality paradigm is under lining the cohesive strategy adopted by the Tamil Nadu Government for raising the standards of higher education. Though our educational institutions have been established on a strong foundation of knowledge, the delivery systems need to be revamped. The wide gap between the aspirations of our students and market demands must be bridged. While addressing the issue of quality we are in the process of putting in place relevant and employability customized education programmes. Faculty development on par with international standards is also the concern of the Government. Keeping this in view, the following programmes have been formulated and are being implemented in our institutions: -

- a. As announced in the Policy Note 2011, orders have been issued to establish Smart Class rooms with Video Conferencing facilities in 10 Universities at a cost of Rs. 2.00 crores at the rate

of Rs. 20 lakhs per University. Smart class rooms with multimedia support having

*Whiteboard with Instalock Screens,
Short throw LCD projector,
Audio System, Document Camera,
Video Conferencing / Internet connectivity,
LCD projector,
Display system Infrastructure Enhancement*

Smart class rooms will take educational technology in to the hands of teachers and students, blending seamlessly with individual traditional teaching styles of teachers.

- b. Orders have been issued to implement the scheme of establishment of Foreign Language Labs to enable the students to become proficient in Foreign languages viz. English, French, German and Chinese in 10 Universities at a cost of Rs. 1.50 crores at the rate of Rs. 15 lakhs per University.

Language Laboratory is an audio visual installation used as an aid in modern language teaching and will have.-

*15 Computers,
Language lab softwares for the above languages,
a multimedia equipped room with audio and headphones support,
Server,
16 port switch,*

network cables and associated accessories.

- c. As announced in the Policy Note 2011, orders have been issued to implement the scheme of establishment of Entrepreneurship cum Skill Development centres in 10 Universities to train students for profitable self employment / gainful employment at a cost of Rs. 2.00 crores at the rate of Rs. 20 lakhs per University. Entrepreneurship cum Skill Development centres will have

one Web Portal,
one Telephone with 2Mbps,
one Photocopy Machine/Two Computers,
LCD Projector,
Establishing area based work station.

This initiative to link University with Industry and Society will make students job creators instead of job seekers.

The following would be some of the more than 100 skills to be imparted through these centres.

- Apparel Enrichment
- Medical Transcription
- Office Management
- Spoken English and Personality Development

- Tailoring & Dress Making
- Tally 9.1
- Web Design
- Embedded System Design
- Animation & Graphics
- Fashion Designing
- Instrumental Music (Key Board & Guitar)
- Photography & Videography
- Travel and Tourism Management
- Visual Editing / Desk Top Publishing

In collaboration with Tamil Nadu Skill Development Mission under the Labour and Employment Department, the school and college drop outs as well as poor and unskilled labourers will be trained to gain employment or to start their own small scale business or industrial units in jewelry, textile, food processing, welding, plumbing, AC mechanism, printing technology, mobile servicing, servicing of electrical and electronic appliances(TV, fridge, fans and other house hold appliances), preparation of printed circuit board(PCB) etc., by identifying training needs and skill gaps.

- d. Orders have been issued to invite renowned professors from Foreign universities to train the faculty / students / research scholars in 10 Universities at a cost of Rs.1 crore at the rate of Rs.10 lakhs per University. Under the able and dynamic guidance of our Hon'ble Chief Minister,

expeditious action has been initiated to conduct faculty and curriculum development programmes to enable teachers to acquire IT skills at Quai-de-Milleth College for Women and Bharathidasan University in collaboration with Microsoft Corporation as a first step.

- e. Orders have been issued to implement the scheme of establishment of Curriculum Development Cell to enrich and raise existing curriculum to International Standards through cross pollination of ideas from distinguished professors / experts of International repute from other countries in 10 Universities at a cost of Rs.10 crores at the rate of Rs.1 crore per University. On the lines of the above, Curriculum Development Cells are in the process of being established with the following viz.,

- Appointment of Web Developer & Administrator
- Creation of Database
- Web Portal
- Internet Connectivity
- Computers with copier
- LCD Projector
- Video Conferencing facility and Server

1.17. ICT academy of Tamil Nadu (ICTACT) is an initiative of Government of India, Government of Tamil Nadu and the Confederation of Indian Industry (CII) ICTACT is an autonomous non-profit society and is governed by illustrious industry leaders and officers from the Government of India.

The objective of ICTACT is to train the Higher Education teachers of ICT domain, thereby benefiting their students to become industry ready and employable.

During the year 2011-12, ICT Academy has trained 1140 faculty members of the Higher Education Institution in the State of Tamil Nadu in association with large industry partners, thereby benefitting 62,000 students during the year. ICT academy has been supporting researchers in the State through the publication of its 3 International research journals every quarter and has published 12 issues during the year 2011-12.

1.18 All the above proposals will usher in a renaissance, reinvent and redefine industry engagement in transforming higher education at a time when the Tamil Nadu economy is poised to enter into a higher trajectory, thanks to the untiring efforts of the Hon'ble Chief Minister of Tamil Nadu. The steps taken by Government of Tamil Nadu in the direction towards

enhancement of the quality for higher education will,

- ❖ Enable Higher Education system to meet the diverse needs of students pursuing higher education for different purposes.

- ❖ Leverage Technology to achieve world class quality.

- ❖ Create effective strategies to train students to become good leaders and institution builders.

- ❖ Develop a vibrant research system which would also be relevant to current indicators.

- ❖ Ensure inclusion in education, especially the differently abled.

- ❖ Establish interface and connectivity with industry to ensure that our students both in the regular and non-formal stream are all set for a seamless induction into industry.

1.19 In accordance with the cherished vision of the **Hon'ble Chief Minister** we will prioritize projects, remove bottlenecks and surge ahead towards a glorious future for the youth of Tamil Nadu who are in the higher education sector. Our efforts have been fine tuned in accordance with the words of the **Hon'ble Chief Minister,**

“In a modern globalised world, aspirations are unbridled and ambitions are high. It is incumbent on a democratically elected Government to provide the road map to channel these aspirations and ambition to their ultimate realization”.

FINANCIAL OUTLAY : 2011-12

A sum of Rs. 361.28 crores was allotted for 2011-12, out of which, a sum of Rs.300.45 crores has been spent, thereby achieving 85% of the outlay.

FINANCIAL OUTLAY : 2012-13

Under Demand No: 20 – Higher Education, the total outlay is Rs. 2432.98 Crores, of which Rs. 725.66 crores are for Plan Schemes and Rs. 1707.32 Crores are for Non-Plan Schemes.

BUDGET ESTIMATE FOR 2012 - 2013

Head of Account		Plan	Non-Plan	Total
		(Rs. in lakhs)		
2059	Public Works Maintenance and Repairs	-	2652.41	2652.41
2202	General Education University and Higher Education	1313.98	140433.88	141747.86
2203	Technical Education	66560.86	26641.96	93202.82
2204	Sports and Youth Services	1482.12	-	1482.12

2205	Arts and Culture	40.00	594.14	634.14
104	Archives			
2235	Social Security and Welfare	-	60.16	60.16
2251	Secretariat – Social Services	-	307.47	307.47
3425	Other Scientific Research	492.64	-	492.64
3454	Census Surveys and Statistics Gazetteer and Statistical Memoirs	-	41.82	41.82
4202	Capital outlay on Education, Sports, Arts and Culture	2676.35	0.01	2676.36
7610	Loans to Government servants etc.	-	0.01	0.01
Total		72565.95	170731.86	243297.81

Part II Scheme for 2011-12.

A sum of Rs.8 crores had been sanctioned under Part II scheme for 2011-12 and the entire amount has been utilized.

PART II SCHEMES FOR THE YEAR 2012 – 2013

(Rs. in lakhs)

Sl. No	Description of the scheme	Ultimate cost	Cost in 2012 - 13
Collegiate Education			
1	Purchase of Computers & accessories for improving infrastructure facilities in the O/o the Director of Collegiate Education.	6.90	6.90
2	Purchase of Computers & accessories for improving infrastructure facilities in 69 Principal offices of Government Colleges.	133.13	133.13
3	Purchase of Computers & accessories for improving infrastructure facilities in 11 Government Arts and Science Colleges.	159.97	159.97
Technical Education			
4	Construction of 20 Laboratories in 5 Government Engineering Colleges.	150.00	150.00
5	Construction of 20 Classrooms in 8 Government Polytechnic Colleges	150.00	150.00
6	Purchase of Computers & accessories for improving infrastructure facilities in the O/o the Directorate of Technical Education.	100.00	100.00

Tamil Nadu Archives			
7	Purchase of Steel Racks for Library and Gazetteer Section	12.00	12.00
8	Digital Scanning and Microfilming of mended records of pre 1900 and records of post 1900 (Phase I)	12.00	12.00
9	Digitization of Indices from 1900 onwards	5.00	5.00
10	Purchase of drying racks and pedestal fans for Tamil Nadu Archives and 6 District Record Centres	4.50	4.50
11	Purchase of Computers and Peripherals	4.00	4.00
12	Purchase of Vacuum cleaner for removing dust from the records at Tamil Nadu Archives	1.50	1.50
13	Purchase of Pressing Machine	0.50	0.50
14	Purchase of water purifiers (Aquaguard or equivalent) for providing safe drinking water to Research Scholars at Tamil Nadu Archives	0.50	0.50

Tamil Nadu State Council for Science & Technology			
15	Programme for bridging the gap in Research Funding for Research Scholars in Colleges	15.00	15.00
Tamil Nadu Science and Technology Centre			
16	Construction of protection wall on 3 sides (except western side) and provision of Cement concrete paver blocks in District Science Centre - Vellore	18.00	18.00
17	Re-laying of weathering course and also pressed tile on the terrace of Periyar Science and Technology Centre (Gallery building) and Planetarium.	12.00	12.00
Science City			
18	Science Festival	15.00	15.00
Total		800.00	800.00

2. COLLEGIATE EDUCATION

2.1 In the Higher Education sector, Arts and Science colleges play a significant role since a large number of students who do not enter professional courses pursue their higher education in this sector.

2.2 Established in the year 1965, the Directorate of Collegiate education was bifurcated from the erstwhile Directorate of Public Instruction. At present 62 Government Arts and Science colleges, 7 Government Colleges of Education, 148 Government Aided colleges, 14 Government Aided Colleges of Education and 429 self financing Arts and Science colleges are functioning under the administrative control of the Directorate of Collegiate Education. There are 5,10,620 students in Government and Government Aided colleges with a staff strength of 12,344 teachers in the cadre of Assistant Professors and Associate

Professors. Self Financing Colleges are having a strength of 3,70,019 students. Novel courses such as B.Sc Electronics and Communications, B.Sc Micro-biology, B.Sc Visual Communication, B.Sc Textile Designing, M.Sc Information Technology, M.Sc Wild life Biology, B.A Tourism and Travel Management, B.A Journalism and Mass Communication, B.A Defence are being offered in the Arts and Science colleges in keeping with latest demands and trends.

STARTING OF NEW ARTS AND SCIENCE COLLEGES

2.3 For the first time in the history of higher education as an epoch making venture a record no. of eleven co-educational University constituent Arts and Science colleges have been opened by the Hon'ble Chief Minister of Tamil Nadu during July 2011.

The colleges have been opened at Srirangam (Tiruchirappalli District), Nemmeli (Kancheepuram District), Nagalapuram (Tuticorin District), Harur (Dharmapuram District), Kallakurichi (Villupuram District), Sattur (Virudhunagar District), Vedaranyam (Nagapattinam District), Tiruppattur (Vellore District), Thiruthuraipoondi (Thiruvarur District), Pappireddipatti (Dharmapuri District) and Nannilam (Thiruvarur District).

2.4 Land has been identified for all these eleven colleges and they have started functioning from the year 2011-12 with 2531 students, fulfilling the demands and dreams of several poor students including first generation learners, from rural areas.

NEW COURSES IN GOVERNMENT COLLEGES

2.5 There has been an increasing demand for additional new courses in Government Colleges both in UG and PG streams. This is clear indication that the demand for higher education is gaining

ground day after day. 15 no. of UG courses and 86 no. of PG / M.Phil / Ph.D courses were sanctioned by Government with 68 posts for 2011-12 and 61 posts for 2012-13. Sanctioning of posts along with new courses has been welcomed by the teaching community, the student fraternity, parents and educationalists.

SHIFT SYSTEM

2.6 The introduction of shift system has enhanced enrolment of students considerably. 34,858 students under shift system-I and 12,040 Students under Shift System-II have been admitted during the academic year 2011-12.

2.7 Guest Lecturers have been appointed in Government Colleges for handling classes functioning under Shift system-II and pay of the Guest Lecturers has been enhanced from Rs. 6000/- to Rs. 10,000/- p.m. from the year 2011-12.

FREE EDUCATION

2.8 All Government Colleges provide free education upto Post Graduate level and Government aided colleges provide free education upto Under Graduate level. 5,10,620 students have benefited from this scheme. 47.4 % of these students are girls.

FREE BUS PASS

2.9 In this scheme of providing bus passes to all students of Government colleges 1,53,963 students have benefited.

EMPOWERMENT OF WOMEN

2.10 At Queen Mary's College, Chennai and Arulmigu Meenakshi Government Arts College for Women, Madurai free coaching is given exclusively for women students appearing for IAS/IPS examination. A sum of Rs.10 lakhs has been earmarked for this scheme.

**ENGLISH LANGUAGE FELLOW
PROGRAMME IN GOVERNMENT ARTS &
SCIENCE COLLEGES**

2.11 To enhance English teaching the teachers are provided with latest techniques of language teaching and the students are equipped with communication skills, in order to compete in the global market under this programme. As a part of this programme, an American TESOL expert has been placed on ten-month Fellowship in academic institutions. He serves as full time English Language Fellow (ELF) and takes 20 contact classes per week. In addition, he also participates in related activities such as developing materials, training teachers and similar professional duties as specified by the host institutions.

TRANSFERS THROUGH COUNSELLING:

2.12 "Transfers through transparent Counselling Method" was conducted for the first time for the non-teaching staff of the Directorate of Collegiate Education. 84 Non-teaching staff participated in the Counselling.

PROJECT GENESIS TRAINING PROGRAMME BY INFOSYS BPO LTD

2.13 In the global context it is necessary for students to equip themselves with necessary analytical and communication skills. Keeping this in view, a Project Genesis Programme is being organized for College Teachers with the help of Infosys BPO Ltd., Bangalore. With the help of the teachers trained by this programme 10 recruitment camps were organised in various Government Colleges and 205 students have been recruited.

STUDYING DIPLOMA / CERTIFICATE COURSE ALONG WITH THE DEGREE (ADD ON COURSE)

2.14 A scheme to study a Diploma / Certificate course in Polytechnics along with the degree courses for the benefit of the students studying in Government Arts and Science Colleges is being implemented. This enables students to compete in the job market and also emerge successful as entrepreneurs. 2371 students have successfully completed the course.

JOB FAIR

2.15 A Placement cell which is generally associated with professional colleges has been established for the benefit of the students studying in Arts and Science Colleges. Job fairs were conducted in various Centres viz. Government Arts College for Men, Nandanam, Chennai -35, Dr. Ambedkar Government Arts College, Vyasarpadi,

Chennai -39, 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. Leading companies recruited 1040 graduates through these job fairs.

STIPEND FOR TAMIL MEDIUM STUDENTS:

2.16 Students studying in Tamil Medium are being paid a stipend of Rs.400/- and 33,750 no. of students are benefited under this scheme. Rs.1.35 Crores has been allotted and fully utilized.

SPECIAL COACHING TO SC/ST AND MBC STUDENTS

2.17 Students belonging to SC/ST and MBC communities studying in Government Colleges particularly in rural areas face initial problems with subjects like English, Maths and Science. To allay their fears and instill

confidence in them special coaching is given to these students after class hours and also during holidays. A sum of Rs.2 lakhs is being provided and 11,032 students have benefited under this scheme.

STIPEND TO RESEARCH (Ph.D) SCHOLARS

2.18 Students undergoing research in various subjects in Government and Government Aided Colleges receive stipend at the rate of Rs. 36,000/- per annum during their period of research. 46 Research scholars have benefited from this scheme and Rs. 16.60 lakhs have been awarded to them as stipend.

NATIONAL SERVICE SCHEME

2.19 Right from its inception in September 1969 the National Service Scheme is successfully implemented in Tamil Nadu. With nearly 3,71,000 student

volunteers the scheme is in vogue in Universities, Colleges, Technical Institutions, ITIs, Teacher Training Institutions and higher secondary schools.

2.20 Adoption of villages, organizing health camps viz., leprosy, eye, dental, cancer detection and eradication, cardiac care, mother child care, first aid training, blood donation, Blood grouping, maintaining Blood Donor's Directory, AIDS awareness programme, yoga and meditation, leadership training, career guidance and counselling, soft skills development, helping school dropouts to continue their education, organizing non-formal and adult education programme etc., are some of the activities under the National Service Scheme which help students blossom as responsible citizens with civic sense, care and concern.

2.21 Through special camping programmes, where students work with local

youth in the adopted villages, permanent assets are created by providing public utility services, construction of toilets, water storages, community halls, compound walls, developing play grounds, and road formation works, etc.

2.22 The following achievements of the NSS student volunteers speak volumes on the social consciousness created in the youth: -

- Durable assets were created to the tune of Rs.6 crores benefiting around 4 lakh people.
- NSS volunteers donated 89,133 units of blood.
- 4,87,653 saplings were planted.
- 95,155 illiterates have been made literates.
- 90 state level awards and three national level awards have been won

SPORTS

2.23 Sports is an integral part of education in the Arts and Science Colleges in Tamil Nadu. The students have excelled in Sports and won prizes and medals at the national and international competitions. To cite a few success stories:

2.24 Selvi T.Pappathy, K.Priya and P.Latha of Queen Mary's College and Quaid-e-Milleth Arts and Science College, Chennai have won medals in the National Kabadi Tournament. The students of Arulmigu Meenakshi Arts and Science College for women have won the University Championship in swimming and have participated in the South India Volley Ball Tournament. The students of Loyola College have participated in the World Universities Athletic Meet and won laurels and their performance has been appreciated by the Hon'ble Chief Minister herself.

3. TECHNICAL EDUCATION

3.1 The Directorate of Technical Education was established on 14th October, 1957 with the objective of bringing the coordinated development of Technical Education in the State of Tamil Nadu. The Government of Tamil Nadu has taken efforts to formulate new policies and promote developments in the field of Technical Education both in Degree and Diploma level for the welfare of the poor and rural students. At present, there are 6 Government Engineering Colleges, 3 Government-Aided Engineering Colleges, 18 Constituent Colleges of Anna Universities and 498 Self-Financing Engineering Colleges. Besides this, there are 30 Government Polytechnic Colleges, 34 Government-Aided Polytechnic Colleges, 3 Affiliated Polytechnic Colleges and 380

Self-Financing Polytechnic Colleges
functioning in Tamil Nadu.

**ESTABLISHMENT OF A NEW INDIAN
INSTITUTE OF INFORMATION TECHNOLOGY
IN SRIRANGAM CONSTITUENCY
TIRUCHIRAPALLI DISTRICT UNDER PPP
MODE**

3.2 The establishment of a New Indian Institute of Information Technology in Sri Rangam Constituency, Tiruchirapalli District under Public Private Partnership Mode as per announcement made in the revised budget 2011-12, is under process. Three preliminary meetings have been convened on 16.12.2011, 07.02.2012 and 09.02.2012. A State Steering Committee has been constituted, vide G.O. (Ms) No. 4, Higher Education (J1) Department, dated 06.01.2012 under the Chairmanship of the Chief Secretary. The first meeting of the State Steering Committee was convened on 10.02.2012 along with Industry representatives and special invitees. The

sub-committee meetings of the State Steering Committee were held on 24-2-2012 and 11-4-2012. 56.37 acres of land has been identified in Sethurapatti village in Srirangam for the Institute and the logistics are being worked out.

ESTABLISHMENT OF A NEW GOVERNMENT ENGINEERING COLLEGE AT THENI DISTRICT

3.3 As per the announcement made in Revised Budget 2011-2012, Government have issued orders for the establishment of a new Government Engineering College at Melachokkanathapuram, Bodinayakkanur Taluk, Theni District from the academic year 2012-13 for which 12.06 acres of land has been identified. Government have also accorded administrative sanction for the creation of staff, construction of building and purchase of equipment, computers, furniture, library books etc., at a total outlay of Rs. 9363.94 Lakhs for the four years

(2012-13 to 2015-16). Further, Government have accorded financial sanction to the tune of Rs. 2523.53 Lakhs (Rupees Twenty Five Crores Twenty Three Lakhs and Fifty three Thousands only) towards expenditure for construction of building (Rs. 2000.98 Lakhs), procurement of equipment (Rs. 74.00 Lakhs) and Staff Salary (Rs. 448.55 Lakhs) during the year 2012-13.

CENTRAL ASSISTANCE SCHEME

3.4 Seven New Government Polytechnic Colleges in Dharmapuri, Karur, Perambalur, Theni, Thiruvarur, Thiruvannamalai and Villupuram have been started under Central Assistance Scheme. Besides one Government Polytechnic College at Madurai District has also been started. Government have sanctioned a sum Rs.14.67 crores for the purchase of Equipment, Machineries and Library Books for the second year students for the newly

established seven Government Polytechnics for the year 2011-12.

3.5 Ministry of Human Resource Development, Government of India, Department of Higher Education under the Scheme of "Sub-Mission on Polytechnics" under "Co-ordinated Action for Skill Development" have selected 19 Government and 5 Government Aided Polytechnics for the construction of Women's Hostel at an outlay of Rs.1 crore per Polytechnic under Direct Central Assistance. Similarly, 20 Government Polytechnics have also been selected for the Up-gradation of Infrastructural Facilities with a one-time grant of Rs.2 Crores per Polytechnic.

INTRODUCTION OF SHIFT SYSTEM IN GOVERNMENT POLYTECHNIC COLLEGES

3.6 Shift system has been introduced in 14 Government Polytechnic Colleges from the academic year 2009-2010 with an

additional sanctioned intake of 3420. The system has been introduced with the policy of providing Diploma Education to meritorious poor students hailing from rural areas. During the year 2011-12, 3111 students have been admitted.

FIRST GENERATION GRADUATE CONCESSION

3.7 Tuition Fee has been exempted for the First Generation Graduate students admitted through Single Window Counselling and presently studying in 1st year and 2nd year in Engineering Colleges. 1,56,987 students have benefited as on date during the academic year 2011-12. A sum of Rs.304.27 Crores was allotted and a sum of Rs. 298.90 Crores has been spent towards this scheme. The scheme has been extended to the eligible wards of Sri Lankan refugee living in the Camps in Tamil Nadu. For the

financial year 2012-13 a sum of Rs.477.97 crores has been allotted.

WAIVER OF TUITION FEES AND FREE BUS PASS TO THE POLYTECHNIC STUDENTS

3.8 Waiver of tuition fees for all the Students studying in Government Polytechnics is in operation. Free bus passes are issued to all the students of Government Polytechnic.

ENGINEERING SEATS THROUGH SINGLE WINDOW COUNSELING

3.9 To enable the poor and meritorious students to join engineering courses at an affordable cost, 65% of the Engineering seats in Self-financing non-minority institutions and 50 % seats in self-financing minority Institutions are being allotted through Single Window Counselling System of Anna University, Chennai. 1,47,564 students applied for admission

under Single Window Counselling, out of which 1,10,166 students were allotted seats for the academic year 2011-12.

TRAINING FOR TEACHING AND NON-TEACHING STAFF

3.10 Training programs are organized for the Teaching and Non-teaching staff members of the Engineering and Polytechnic Colleges at the National Institute of Technical Teachers' Training and Research (NITTTR), Chennai-600 113. The training programmes help the faculty to update their skills for the betterment of the teaching-learning process. 603 teachers and non-teaching staff have been trained.

RECRUITMENT OF FACULTY IN GOVERNMENT ENGINEERING AND POLYTECHNIC COLLEGES

3.11 The Government have issued orders to fill the 154 vacant Assistant Professor posts in the Government Engineering Colleges and 139 Vacant

Lecturer posts in Government Polytechnic Colleges. Teachers Recruitment Board has notified the advertisement and the recruitment is on.

3.12 OTHER ACHIEVEMENTS :

- i. Transfers of non-teaching staff of colleges under the control of Directorate of Technical Education through the transparent counselling method was introduced for the first time during the academic year 2011-12. This welfare measure has been welcomed by the administrative staff of the Engineering and Polytechnic Colleges.
- ii. The children of Sri Lankan refugees in Tamil Nadu have been permitted for the first time to participate in counselling for admission to Lateral Entry for B.E./B.Tech. and for Post Graduate courses viz. MBA / MCA/ M.E./M.Tech during the academic year 2011-12.
- iii. Financial assistance of Rs. 23 lakhs has been given to 92 poor students under Chief Minister's Public Relief Fund at the

rate of Rs. 25,000/- each to enable them to continue B.E / B.Tech., courses during 2011-12.

INITIATIVES

ESTABLISHMENT OF HIGH SKILL TRAINING CENTRE

3.13 It is proposed to establish an integrated **High Skill Training Centre** in Thiagarajar Polytechnic College, Salem to enhance the knowledge and skill of the students / public / personnel from Industries in the advanced technological developments in order to grab lucrative employment opportunities throughout the country in leading organizations. Advanced Training Programmes on Non-Destructive Testing under Civil Engineering discipline at a project cost of Rs. 210 Lakhs, on Product design and CNC Training under Mechanical Engineering discipline at a project cost of

Rs. 250 Lakhs and on VLSI, Embedded and PLC Systems under Electrical & Electronics Engineering discipline at a project cost of Rs. 216.00 Lakhs all at a total cost of Rs. 676 Lakhs have been prepared as per guidelines.

**TECHNICAL EDUCATION QUALITY
IMPROVEMENT PROGRAMME (TEQIP) –
PHASE II**

3.14 The TEQIP Phase II, centrally Sponsored Scheme with the Central and State Government Share being in the ratio of 75 : 25 has a total outlay of Rs. 2430 Crores for Engineering Colleges. Rs 86.55 Crore has been tentatively allotted in the State budget for the year 2012-13.

3.15 Under Sub-Component 1.1- "Strengthening Institutions to improve learning outcomes and employability of

graduates", Rs 10 Crores is allotted per Institution. Government College of Engineering, Bargur has been selected under this Sub-Component.

3.16 Under Sub-Component 1.2 – "Scaling-up Post Graduate Education and Demand Driven Research & Development and Innovation", Rs 12.5 crore is allotted per Institution. Government College of Technology, Coimbatore, Alagappa Chettiar College of Engineering & Technology, Karaikudi, Government College of Engineering, Salem and Department of Computer Science & Engineering (CSE Dept.), Manonmaniam Sundaranar University, Tirunelveli have been selected under this Sub-Component.

4. UNIVERSITIES

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 Teachers Education University
13. Anna University, Chennai

UNIVERSITY OF MADRAS

4.1 The University of Madras, established in the year 1857 is one of the oldest Universities in the country. It is an exalted citadel of learning and erudition, synonymous with the phenomenal growth of education in the Indian sub continent.

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.

4.3 The University of Madras was the first to introduce the concept of autonomous colleges within the University system. The concept encouraged the colleges with the required academic and infrastructure strengths to seek autonomous status, and even aspire for the status of a college with potential for excellence. There are 126 colleges affiliated to the University of Madras

of which 20 are autonomous colleges. There are 72 teaching and research Departments in the University of Madras which are grouped under 18 Schools.

4.4 OTHER ACTIVITIES

1. Choice Based Credit System (CBCS)
2. National Service Scheme (NSS)
3. Agro Economics Research Centre (AERC)
4. Madras University Union
5. University Students Advisory Bureau (USAB)
6. Academic Staff College
7. College Development Council (CDC)
8. University Centre for International Relations [UCIR]
9. Alumni Association
10. Placement Cell
11. Touch Screen Information Kiosks
12. Website (www.unom.ac.in and www.ideunom.ac.in)
13. Computer & Networking
14. EDUSAT
15. Publication Division
16. Library
17. RESEARCH, CONSULTANCY AND EXTENSION
18. University Industry Community Interaction Centre (UICIC)
19. UPE Projects
20. Individual research projects
21. Departmental Recognitions & Projects
22. Government of Tamil Nadu / University Projects
23. Doctoral Programme
24. Research Publications
25. Single window admission process
26. Establishment of Virtual University
27. Establishment of Pan African e-Network Project (offering M.Sc(IT) and BBA for African students)

4.5 **ACHIEVEMENTS**

- The Hon'ble Chief Minister of Tamil Nadu inaugurated the first constituent college at Nemmeli, Kanchipuram District on 18th July 2011.
- NIELSEN Survey in "India Today" ranked the University 5th among all the 538 Universities of India on 15/11/2011 based on the H-Index for publications in Science and Technology.
- Granted the MOVER Project-2011. Mover Project, coordinated by University of Murcia, Spain is an upgraded version of MAHEVA Project and is an Erasmus Mundus Action 2 initiative funded by the European Commission which will provide University undergraduates, postgraduates and doctoral students as well as staff, especially from the underprivileged sections, with the opportunity to study in a European University, through a grants' programme.

MOUs

- Signed 114 MOUs with highly reputed Universities all over the world and corporates like HCL, TCS etc as part of the Industry-Institution collaboration.
- 6 Patents are in progress.

Inclusive Student Welfare Programmes

- ❖ Candidates belonging to SAARC countries are entitled to 40% concession on tuition fee. Sri Lankan Tamil students and Tibetan refugees are eligible to pay Tuition and other course fees on par with the Indian students.
- ❖ "Earn while you Learn" scheme for Post-graduate students and Research Scholars of the University has been introduced. Deserving students will work as Part-time Laboratory Assistants, Library Assistants, Technical Assistants, and Tutorial Assistants for suitable monthly remuneration.
- ❖ Soft Skills program is offered to all its students. It is mandatory for every student of the University to acquire 8 credits from this programme to successfully complete their post graduation degrees.
- ❖ Compulsory Students Insurance Scheme has been introduced for the students of University Departments of study and research and seven parents have already benefited with Rs. 7 lakhs.
- ❖ Institutionalized academic audit and Internal Quality Assurance System for both University departments as well as the affiliated colleges have been set up.

- ❖ Free Computer based I.T. Training for all administrative staff members to facilitate smooth transition to e-governance programme of the University has yielded fruitful results.
- ❖ E-Governance to ensure the speedy process of awarding of Doctoral Degrees with a focus on quality research through plagiarism checking Turnitin Software, is an significant step taken to tone up research.
- ❖ Free Education scheme has been introduced in the University Departments and Affiliated Colleges for the benefit of the poor and rural students. About 50 students from the University Departments have been benefited. Grants have also been provided to Departments to purchase essential text books for the students.
- ❖ Construction of Women's Hostel for PG, M.Phil and Ph.D students at Chepauk campus is in progress. Tender has been floated. The Plan proposal has been sent to CMDA for approval. Like-wise construction of an additional floor for the Women's Hostel at the Taramani Campus of the University of Madras is also in progress.

- ❖ A separate Career Counseling Cell and Grievance redress Centre have been established in the Chepauk campus of the University of Madras to help the students. Students and Parents get relevant and useful information about the career prospects at the Centre.
- ❖ Industrial Internship is mandatory for the students of B.Com (Hons) programme which has been introduced from the academic year 2011-12, The programme is being offered by four colleges affiliated to the University of Madras. Under this programme, students undergo practical training at the companies with which the Colleges offering the B. Com (Hons) programme enter into MoU. 160 students benefitted from the Industrial Internship.
- ❖ Community colleges have been started in two affiliated colleges namely Agarsen College, Madhavaram and Sri Sankara College, Kanchipuram . Both the colleges are located in suburban/rural area and the aim is to impart skill development to uneducated youth in the age group of 16 to 35 for gainful employment. Agarsen College have identified Customer Relationship, Electronic Technician, Driving (ladies), Hotel management, Beautician course, Mobile service, tailoring and computer service courses. Sankara college offers courses in tailoring, electrical

repair and maintenance, air conditioning, mobile servicing and multimedia.

- ❖ Banks have come forward to provide financial assistance under self employment programmes.
- ❖ Digital library Initiatives in all the campus libraries
- ❖ Enhanced Computer Networking for all campuses
- ❖ Inter-Collegiate and Inter-university sports events
- ❖ Single Window admission procedure in Distance Education
- ❖ Implementation of Fee concession for Differently Abled students in University.

4.6 ACTIVITIES / SCHEMES PROPOSED TO BE UNDERTAKEN DURING 2012-13

- ❖ To establish 5 new Departments
- ❖ To establish 3 new Centres of research viz.,
Centre for Cyber Forensics & Information Security, National Centre for Neurotoxicity Research and Research on Prison & Rehabilitation of Prisoners

- ❖ To install Solar Energy Generation in all campuses
- ❖ To provide Wi-Fi Connectivity in all campuses.
- ❖ To establish Health Centre and Students Amenity Centre
- ❖ To introduce Faculty and Students Exchange Programme and MOVER Programme
- ❖ To start Faculty Recharge Programmes and Post Doctoral Fellowship Programmes for teachers.
- ❖ To create Ph.D. Fellowship of Rs.2,000/- for all 3rd year non-stipendiary Full-Time Scholars.
- ❖ To organise Training Programme for all final year students as per the MoU with HCL
- ❖ To initiate Joint Ph.D. Programmes with Foreign Universities.
- ❖ To create World Centre of Academic Excellence in Waste Management in Collaboration with The University of Northampton, U.K.
- ❖ To introduce University with Potential for Excellence Phase II Programme.

MADURAI KAMARAJ UNIVERSTIY

4.7 The Madurai Kamaraj University, a University with Potential for Excellence was established in 1966. It has 74 Departments clustered into 18 Schools. The Madurai Kamaraj University is one among the nine Universities which has been recognized by UGC as University with Potential for Excellence among 471 Universities across the country. The University has 96 affiliated colleges which comprises of 12 Government Aided Colleges, 2 Government Colleges, 21 Autonomous, 33 Self-financing, 4 constituent and 5 Evening Colleges along with 20 approved institutions. The Directorate of Distance Education of the University is the second oldest Distance Education Department in the country, next only to the University of Delhi.

COMMUNITY COLLEGES

4.8 The University has established 10 Community Colleges attached to its affiliated colleges. 5 Community Colleges in Madurai District, 4 in Virudhunagar District and 1 in Theni District have come into existence. Ten different courses of a duration of 6 months each are being offered by these colleges in collaboration with 9 Polytechnic institutions. The youth will be trained in soft skills, entrepreneurship and value education for building positive attitude.

GREEN CAMPUS IN THE UNIVERSITY

4.9 An MoU has been signed between the Madurai Kamaraj University and the Tamil Nadu Agricultural University to make the university campus green and clean. A sum of Rs. 20 lakhs has been spent to have a green campus.

ANNA CENTENARY IAS COACHING CENTRE AT THE UNIVERSITY

4.10 To provide free training for 100 students for preparing for the Indian Administrative Service Examinations, the Government of Tamil Nadu has established a Training Centre in the University.

ACHIEVEMENTS:

Seminars and Workshops

4.11 All the Departments of the university have conducted seminars, workshops and conferences for the benefit of teachers, scholars and students by getting financial support from Central and State Government agencies. These programmes have helped the visit of many foreign and national dignitaries, renowned scientists and academicians to exchange their research findings and observations. New research areas have been identified and scholars have

engaged in result oriented research pursuits. Both at national and international level research papers were presented.

4.12 The Academic Staff College of Madurai Kamaraj University has conducted 11 Refresher Courses and 3 Orientation Programmes for the benefit of teachers working in various colleges and Universities. A Five Day Induction programme was conducted for the newly recruited Assistant Professors of the University.

- ❖ Research scholars from Taiwan, Germany, Singapore, Srilanka, Italy, Africa, USA, China, Switzerland visited the University through various exchange programmes in 2011.
- ❖ 122 research papers have been presented by faculty members in various international conferences held in Germany, Singapore, Taiwan, Srilanka, Italy, Africa, USA, China, Switzerland in subjects viz., Animal Behaviour and Physiology, Bio-Chemistry, Genetics, Immunology, Microbial Technology, Plant Science, Genetic Engineering, Molecular Micro

Biology, Nano-science, Solar Physics,
Yoga, Geo-informatics etc.,

- ❖ Research scholars from Germany, Netherlands, China, Norway, USA, Italy, Germany have visited the University.
- ❖ To strengthen a digital learning repository to enhance quality in the teaching learning process, infonet centre with 50 systems will be ready by June 2012.
- ❖ Various Departments of the University have received research grant to the tune of Rs. 339 lakhs from UGC and other funding agencies. Rs. 16.5 Crore grants have been received from funding agencies such as DBT, DST, UGC, CSIR, ICMR, TNSTC, UGC-UPD, NTRO, Ministry of Earth Sciences.

Foreign Collaboration

4.13 Six scholars visited the University from Taiwan in connection with India-Taiwan Exchange programme in 2011.

4.14 An MoU was signed between Madurai Kamaraj University and Keele University, UK, on 3rd February, 2012 for cooperation in teaching and research, designing and developing innovative academic programmes on emerging needs, and exchange of students and faculty for mutual learning.

BHARATHIAR UNIVERSITY

4.15 Bharathiar University was established at Coimbatore in February 1982. The jurisdiction of the University extends over the revenue districts of Coimbatore, Tiruppur, Erode and Nilgris. There are 33 teaching and research departments which are grouped under 13 schools. The University has been setting standards in its research-driven curricula and is moving towards excellence in all fields with the interests of the society as its goal.

4.16 The University has 105 affiliated colleges of which 22 are autonomous and 83 non-autonomous, and the University caters to the educational needs of more than 1,80,000 students and research scholars. The University has been reaccredited with A (CGPA 3.02) status by National Assessment and Accreditation Council.

4.17 The main aim of this University is to provide quality higher education contributing to societal transformation and national development in consonance with the motto "educate to elevate".

COMMUNITY COLLEGE

4.18 The University launched the Community College concept in April 2007. At present, Bharathiar University has approved 11 community colleges to empower the disadvantaged and the underprivileged students for gainful employment.

ACADEMIC STAFF COLLEGE

4.19 The Academic Staff College was established in the year 1987 and for the last 25 years it has conducted several orientation programmes for the benefit of faculty. 242 refresher courses in various branches of Science, Arts, Social Science, Commerce,

languages etc. have been conducted benefiting 6694 teachers. The academic staff colleges has achieved the distinction of conducting all the programmes sanctioned by the UGC for the year 2011-12.

SCHOOL OF DISTANCE EDUCATION

4.20 The School of Distance Education was established in the year 1991-1992. The main aim of this school, is to provide quality education for those who could not be enrolled for regular programmes in educational institutions, to provide opportunity for the deprived students to enrol in a programme of their choice, and to provide knowledge in specific areas of study. There are 300 study centres under SDE and 162 study centres under the Centre for Participatory and on-line programmes. Totally, 73,605 students are benefited under this programme.

ACHIEVEMENTS

- ❖ Bharathiar School of Management and Entrepreneurial Development has signed an MoU with the University of Canada West, British Columbia Province – Canada for joint partnership in Academic and Research Management.
- ❖ Science Department signed an MoU with CINESTAV, Mexico for research collaboration, exchange of faculty and students.
- ❖ Department of Nano-Science and Technology signed an MoU with University of Alberta, Canada for research collaboration, exchange of faculty and students.
- ❖ Department of Social work signed an MoU with CBM Christoffel – Blindenmission Christian Blind Mission, Germany for study on accessibility features in the affiliated colleges of Bharathiar University.
- ❖ The University is providing e-journal / e-learning / e-education access services to the users in the Library UGC-INFONET LAB. The user can access more than 6800 titles of various national and international journals.

- ❖ More than 3,000 students were placed in HCL, WIPRO and TCS Technologies in the common placement drive organised by the University and its affiliated colleges.
- ❖ 80 students were selected for Coaching for Civil Services Examination in Anna Civil Service Centre for this academic year and the same is in progress.
- ❖ A notable achievement is one student Mr.Venkatesh, stood first in Indian Air Force selection.
- ❖ The Department of Physical Education conducted a UGC funded adventurous sports (treck) camp at Regional Water Centre, Pongdum, Himachal Pradesh and Gudalur, Tamil Nadu.
- ❖ The Department of Communication and Media Studies has a collaboration programme with Media Research and Training Centre, University of Jaffna. Students produced more than 20 documentary and short films under this programme.
- ❖ UGC has sanctioned Rs.10 lakhs towards infrastructure development, and action has been initiated in this regard.

- ❖ The UGC DST has sanctioned a sum of Rs.56.45 lakhs for major, minor and other research works and the same are being carried out by the faculty members of the University.
- ❖ The MEA-TRUST has sanctioned a sum of Rs.96,000/- for the research work being carried out by the University.
- ❖ The Department of Women Studies organised a Group Discussion programme in association with American Library, Chennai on the theme "Education for Women and Girls".

Seminars and Workshops

- ❖ The University has conducted 10 Conferences, 28 National and 12 State level seminars and 2 Workshops.
- ❖ 258 papers have been published at national level and international level by the faculty members.
- ❖ More than 60 papers were published in reputed journals at national and international level.
- ❖ 32 books were published by the faculty members of various departments.

- ❖ 30 faculty members from various departments of the University participated in three day national level workshop on “Quality Management and Quality in Higher Education” organised by the Defence Institute of Quality Assurance, Bangalore sponsored by Ministry of Defence, Government of India.

Placement for SC / ST and Minorities

4.21 Department of Extension and Career Guidance organized a three day IT Finishing School Training Programme for Placement Officers, sponsored by THADCO (Tamil Nadu Housing and Adi Dravidar Development Corporation). Placement Officers from various affiliated colleges of the University have been participated for the development and placement of SC / ST candidates.

Free Education Scheme

4.22 The University has implemented free education for poor and talented students. The affiliated colleges of this University have been given 5% extra seat in each course towards the free concession to poor students. 23 students of Bharathiar University and nearly 250 students of affiliated colleges under the University have been benefitted through this scheme.

BHARATHIDASAN UNIVERSITY

4.23 Bharathidasan University was established in 1982 in the name of the great revolutionary Tamil Poet, Bharathidasan. The coat of arms and the maxim inscribed around the Logo speak for the vibrancy and the preparedness underlying the growth of the University. The Bharathidasan University is approaching her thirties and is marching with credibility in the pursuit of excellence. The University has 131 affiliated colleges which comprise of 17 Government Colleges, 20 Government Aided, 71 Self-financing, 8 constituent colleges and 15 other approved institutions.

4.24 Bharathidasan University is making rapid strides in all its major objectives of academic, research and extension activities. The Bharathidasan University has been a pioneer in offering rare academic programmes in Arts and Sciences

through its vibrant departments and potential colleges and institutions affiliated to it. It's main objective of imparting higher education in this part of Tamil Nadu particularly for the rural communities is being achieved by its innovative academic programmes.

ACHIEVEMENTS

Research

4.25 Research centres have been established as a part of some specific departments in order to achieve excellence in the specialized research areas. Research Articles have been published in 398 National and 871 International journals. In addition a bi-annual journal is being published by the University both in Tamil and English along with Tamil translation of IEEE Spectrum Journal by the University Publication Division. Quarterly news letter highlighting

the activities of the University is being brought out.

- ❖ Two Constituent Colleges at Srirangam and Nannilam and two constituent modal colleges at Vedaranyam and Thiruthuraiipoondi were inaugurated by the Hon'ble Chief Minister of Tamil Nadu through video conferencing in July 2011.

- ❖ A Centre for Knowledge Repository has been established in the University Informatics Centre for the benefit of students, faculty and staff of this University and its affiliated colleges to enhance digital learning through e-resources, to help faculty in implementing innovative approaches in teaching, to organize and share digital contents efficiently and to disseminate knowledge for the benefit of society at large.

- ❖ A new Centre for Differently Abled Persons was started during 2011-12 following the keen interest evinced by our Hon'ble Chief Minister in bringing the differently abled persons into the main stream society. The University has taken steps to assist them by identifying their potentials and helping them to reach their goals. A permanent faculty was also appointed in the cadre of Assistant Professor for the Centre. A

digital talking library was established in the University and was dedicated to the differently abled persons on 15th July 2011.

- ❖ The NTEL project has been established to promote continuous open learning with well developed and peer-reviewed course contents of high quality through all available digital media.
- ❖ A Mini-Gym for Women has been established in the University following the footsteps of our Hon'ble Chief Minister who inaugurated a modern gym for women legislators in Chennai.
- ❖ Started the unique "Community College Scheme" to offer skill-based programmes to the illiterate, school drop-outs and unemployed youth.
- ❖ Hon'ble Chief Minister of Tamil Nadu inaugurated faculty guest house for UGC-Academic Staff College on 27.03.2012 at a cost of Rs.99.50 lakhs.

4.26 The four new co-educational University constituent Arts and Science Colleges are functioning with the following students from rural areas and poor families: -

University Constituent College,
Srirangam

University Constituent College, Nannilam

University Constituent Model College,
Thiruthuraiipoondi

University Constituent Model College,
Vedaranyam

4.27 In the University Constituent College at Srirangam, a new facility – a first of its kind (N-LIST Programme) has been launched through the Digital Library Consortium wherein the students could access e-resources, as this library has been connected to the University Library through server.

4.28 Construction works are under progress for Gymnasium and Lecture Hall at a cost of Rs.124.25 lakhs. Action has also been initiated to construct a seminar cum student facility centre at the cost of Rs.1.3 crores.

ALAGAPPA UNIVERSITY

4.29 Alagappa University was established in 1985 and accredited with 'A' grade by the NAAC in 2005. The University strives to achieve its motto 'Excellence in Action' with Sound Leadership, Relevant Programmes of Study, Modern Curriculum, Committed Faculty, Responsive Administration and Disciplined Students.

4.30 The University comprises of 29 Arts and Science Colleges including 8 Government Colleges, 5 Government Aided Colleges, 11 Self-financing Colleges, 5 Evening Colleges of Alagappa University.

4.31 Alagappa University is committed to quality higher education. The curricula are modernized and selection of admission to many programmes are based on a screening entrance examination. Practical learning

component is embedded in the curriculum, which helps students obtain gainful employment.

4.32 Achieving Excellence in all Spheres of Education, with particular emphasis on 'PEARL' – Pedagogy, Extension, Administration, Research and Learning.

Affording High Quality Higher Education to the learners transforming them into intellectually competent human resource that will help in the upliftment of the nation in Educational, Social, Technological, Environmental and Economical spheres.

Directorate of Distance Education:

4.33 DDE is taking education to the door steps of people, young and old, not only in the nook and corner of the nation, but also overseas. The University has a vast Network

of 208 Learning Centres including 8 centres in foreign countries. All the programmes of the DDE, past and present, have the approval of the IGNOU, New Delhi.

Collaborative Programme

4.34 Need based Skill oriented programmes are offered at Certificate, Diploma, UG, PG Diploma and PG levels in Catering and Hotel Management, Fine Arts, Textile Designing, Paramedical Sciences, Nautical and Aeronautical Sciences, Biotechnology, etc. through collaborating institutions of repute.

Students' Strength:

4.35 The University has an overall student strength of about 1,60,000 from all the four streams comprising of 2,400 Students and Scholars from Departments/ Constituent Colleges, 1,28,000 Students on

roll in the Directorate of Distance Education, 27,000 Students and Scholars in the Affiliated Colleges and 2,300 Students in the Collaborative Mode. In the regular programs, the ratio of women students is high at 65% which showcases a welcome social change in this area.

University – Corporation Bank Public Library

4.36 The Corporation Bank and the University established a University-Public Library in the L.Ct.L.Palaniappa Chettiar Auditorium.

ACHIEVEMENTS

4.37 Research

- ❖ Alagappa University is ranked 3rd in International Collaborative Research publications and 7th in Average Citation Index among top 50 Universities in India under SCOPUS record.

- ❖ The DST has sanctioned Rs. 6.00 crore for research under PURSE scheme to be released under three installments.
- ❖ Faculty members of this University have been sanctioned with the 19 Major Research Projects to the tune of Rs. 1.72 crore from various funding agencies viz. UGC, DST, CSIR during this year.

Conference

4.38 Eleven Faculty members from various Departments have participated in International Conferences / Seminars held in USA, Korea, Switzerland, Australia, Japan, Singapore and Malaysia

38 National Conferences / Seminars / workshops / Endowment lectures / events have been organized by various Departments during this academic year.

Grants

4.39 Rs. 346.60 lakhs under Block Grant, Rs.94.99 lakhs under Reimbursement Grants and Rs.50.00 lakhs under 'Grants for Special Purposes' have been sanctioned by the Government of Tamil Nadu during this year.

Infrastructure Development

4.40 As a major steps towards enhancing the quality of education, infrastructure facilities have been provided at a cost of Rs. 5 crores including the Directorate of Distance Education, PG Men and Women's Hostel and the University Faculty Guest House, Visitors' Hostel in the University and they were declared open by the Hon'ble Chief Minister on 27-3-2012. Similarly, Hon'ble Chief Minister also laid the foundation stone for the new P.G. Women's Hostel, University Canteen, Health Centre,

B.Ed., Women's Hostel extension and dining hall for the new PG hostels to be constructed at a cost of Rs. 3 Crores.

Student Support Activities

- ❖ 595 SC/ST students pursuing higher studies in the University Department were sanctioned Scholarship amount of Rs. 63.53 lakhs during this academic year.
- ❖ 828 BC/MBC/DNC students pursuing higher studies in the University Departments and DDE were sanctioned post matric scholarship amount of Rs.13.40 lakhs during 2011-2012.
- ❖ Ten new academic programmes are being introduced in the faculty of management and faculty of science.
- ❖ Computer oriented classes have been organized to the staff of the University to have a sufficient Knowledge in ICT network office system. Separate e-mail id has been created for each department and administrative sections, Salary accounts, investment accounts, budget preparation etc. are being carried out through computer in Finance section. Separate website has been created for the University and the activities are being uploaded then and there.

- ❖ For the upliftment of the community at large especially for women development the University has collaborated with several organizations such as Affiliated Colleges, NABARD, THADCO, Mahalir Thittam, Tamil Nadu Aids Control Society and District Judicial Court.
- ❖ 30 Solar lights have been installed in the University Departments. Administrative Blocks, Men and Women's Hostel which has resulted in the reduction of Electricity Consumption. Further the University has planned to produce electricity from solar power for other purposes.
- ❖ Class rooms have been established with modern facilities. Each modern class consists of Computers, Camera, LCD and Audio Visual Equipment which would facilitate students to learn easily and quickly.
- ❖ The University is providing technology savvy programmes to students through the University Computer Centre irrespective of their course of study. All the University departments, Administrative Blocks, Men and Women's Hostel and the Library are provided with net café for the benefit of the students.

MOTHER TERESA WOMEN'S UNIVERSITY

4.41 Mother Teresa Women's University was established at Kodaikanal in 1984, by the enactment of Tamil Nadu Act 15. Its motto "Towards Equal Status", envisages a future society of Gender Equity on par with men in all areas. Its objective is three fold viz., Teaching, Research and Extension.

4.42 The University has 18 departments, 2 constituent colleges and 8 affiliated colleges. It offers courses at various levels – Ph.D, M.Phil, PG., UG., B.Ed., & M.Ed. The University has been accorded recognition for offering 16 programmes through Distance Education mode by the Distance Education Council, New Delhi.

4.43 The University organised International & National Conferences on various themes such as “Material Science Research and Nano technology”, “Nanomaterials Applications”, “Bio Ethics”, “Peace, Social and Religious Harmony” “Shifting Paradigms of Education: Present Scenario” and “Exploring Unsung Heroines of Indian National Movement”.

4.44 The women physicist Association of University offers awards annually to women scientists who published articles in peer reviewed International journals.

Infrastructure

4.45 The Wi-fi connectivity work with 1 GB was established successfully in November 2011.

ERNET in the Library has been made functional since November 2011 and more than 12600 journals are available.

Grants

4.46 A financial assistance of Rs.1.80 crores has been sanctioned by the UGC under the scheme Additional Assistance. An amount of Rs. 20,00,000/- (Rupees Twenty Lakhs only) has been received from Distance Education Council, (IGNOU) New Delhi as Development Grant.

4.47 An amount of Rs.32,68,292/- has been sanctioned by the Science and Engineering Research Board towards Financial Assistance for the Research Project entitled, "Influence of nanoparticles on biomolecules".

Activities / Schemes proposed to be undertaken during the year 2012-2013

- ❖ To Establish Intellectual Property Rights Centre.
- ❖ To Extend Wi-Fi connectivity to the entire campus.
- ❖ To Create a database for medicinal plants of Kodaikanal.

**MANONMANIAM
SUNDARANAR UNIVERSITY**

4.48 Manonmaniam Sundaranar University was established as per the Act 31 of 1990 and formally inaugurated on September 7, 1990. The University is named after Prof. P. Sundaram Pillai (1855-1897), a distinguished professor of Philosophy and a renowned Tamil writer, who composed the verse drama, '*Manonmaniam*'. The University is located at Abishekapatti, Tirunelveli with two P.G. centres one at Alwarkurichi and another at Rajakkamangalam. The University caters to the long-felt educational needs of the three southern districts of Tamil Nadu viz., Tirunelveli, Thoothukudi and Kanyakumari.

Mission

- ❖ Providing quality education, especially for the rural and the unreached.
- ❖ Introducing innovation in teaching, research and extension activities.
- ❖ Promoting human values for social harmony.

University Departments and Colleges

4.49 The University has 25 academic departments with 2 Government Colleges, 32 Aided Colleges, 27 Self-Financing Colleges, 2 Constituent colleges, 6 Mano Colleges, 22 Community colleges and 84 Extension Learning Programme Centres. Apart from P.G. and Research Programmes. Diploma and certificate courses are also offered through the colleges.

4.50 About 73112 students have been admitted into the affiliated colleges of the University during the year 2011-2012.

University Stipendiary Research Fellowship

4.51 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

4.52 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 6 centres at Nagampatti, Sankarankovil, Puliyangudi, Govindaperi,

Thisaiyanvilai and panagudi. Two constituent colleges one at Sattankulam and another at Nagalapuram is functioning in Thoothukudi District.

Community Colleges

4.53 The University has introduced the Community Colleges Scheme in 1999 to promote the employability of the rural youth who have completed 10th, and ensure affordable education to the underprivileged and unreached sections of the society of this region. 22 Community Colleges 15 job-oriented, work-related and skill-based courses are offered and diplomas are awarded under the scheme.

Achievements
SCIENCE

Centre for Geo Technology

4.54 Indo-Hungarian Educational exchange fellowship for the year of 2011-12 has been signed.

Criminology and Criminal Justice

4.55 Dr.Jaishankar, Senior Assistant Professor of the Department of Criminology and Criminal Justice has been appointed as member of the International Advisory Board of the Centre for Research and Development of Positive Criminology, Department of Criminology, Bar Illan University, Israel. He is also a Member of the membership and Advancement Committee, World Society of Victimology (WSV) Germany and a Member of the Advisory Board of Centre for Cyber Crime Studies, John Jay College of Criminal Justice, New York, USA.

Arts

English

- ❖ Commonwealth Fellowship has been awarded to Dr. P. Kalyani, Associate Professor for carrying out Post Doctoral Research in England for six months.

Exchange Programme

- ❖ Student Staff Exchange programme with Warsaw University is in vogue.
- ❖ Dr. A. Ramasamy, Professor of Tamil is at present working in Warsaw University as Visiting Professor.
- ❖ Four Students from Poland had visited the University for a week.
- ❖ Erasmus Mundus Exchange Programme with European Universities is also being implemented.

PERIYAR UNIVERSITY

4.56 Periyar University, named after the great reformer E.V.Ramsamy popularly known as "Periyar" was established in the year 1997 at Salem. The University contributes to the efforts of enriching the Nation's Technological, Scientific, Social and Economic status by inculcating adequate and appropriate knowledge, creating ideas and skills among the youth so as to enable them to equip themselves to contribute effectively for promoting social secularism. The University comprises of 89 Arts and Science Colleges including 10 Government Colleges, 4 Government Aided Colleges, 57 Self-financing Colleges, 4 University constituent colleges and 14 Community Colleges.

4.57 At present Periyar University is offering 104 courses in the affiliating colleges, 21 departments namely Tamil,

Commerce, Mathematics, Physics, Chemistry, Computer Science, Biochemistry, Economics, Education, Food Science, Management Studies, Geology, English, Microbiology, Bio-technology, Sociology, Journalism & Mass Communication, Psychology, Library and Information Science, Botany and Environmental Science are offering courses.

ADVANCED RESEARCH CENTRES

4.58 Periyar University has advanced research centre for Women Studies and Centre for Nano Science and Nano technology. These centres undertake advanced level research in the respective streams.

SKILL DEVELOPMENT CENTRE (COMMUNITY COLLEGE)

4.59 In order to empower the students with skills, Skill Development courses have been introduced from the academic year 2002-2003 onwards. These diploma courses help the poor and rural students who cannot afford to study in the regular colleges.

DISTANCE EDUCATION

4.60 Periyar Institute of Distance Education (PRIDE) is functioning from 2001-2002 onwards. At present a total of 391 study centres have been established which include Five study centres abroad. 100 courses (including UG, PG & PG Diploma) are offered during 2011-2012. Dual Degree Programme has been introduced in Periyar University under Distance Education Programme.

OFF-CAMPUS PROGRAMMES

4.61 The Periyar University has also introduced its off-campus academic programmes from the academic year 2005-2006 with a view to throw open higher education opportunity in job-oriented fields for the benefit of students.

4.62 Two new Co-educational University constituent Arts & Science Colleges at Pappireddipatti and Harur have been started during the academic year 2011-12.

Achievements

Conferences / Seminars / Workshops

4.63 The University Departments have organised totally 48 National Conferences / Seminars / Workshops and 5 International Conferences.

MOUs

4.64 Centre for Geo Informatics and Planetary Studies, Department of Geology has signed an MOU with ISRO Satellite Centre, Bangalore - Chandrayaan Project – II.

Department of Physics is collaborating with advanced research centre ARCHES, Italy in the field of Advanced Research for Health & Space

Department of Chemistry and the Department of Food Science have signed MOUs with Department of Biotechnology, Chonbuk University, South Korea and Department of Khoakean University, Thailand respectively.

THIRUVALLUVAR UNIVERSITY

4.65 Thiruvalluvar University was established under Thiruvalluvar University Act, 2002 (Tamil Nadu Act 32 of 2002) by the Government of Tamil Nadu on 16.10.2002. 100 affiliated colleges are functioning in the districts of Cuddalore, Villupuram, Tiruvannamalai and Vellore comprising of 10 Government Colleges, 9 Government Aided Colleges, 4 Constituent Colleges, 74 Self-financing Arts and Science Colleges and 3 Oriental Title Colleges.

Objectives

4.66 The University is striving to achieve its objectives through the vision of liberation of knowledge, having the mission of empowering the youth through higher education to achieve the following goals: -

- ❖ Arousing Social Awareness
- ❖ Creating Stimulating Environment for research and development in various fields of study.
- ❖ Encouraging reciprocal growth
- ❖ Providing quality Higher Education through Teaching, Research Extension-outreach and Fostering Integrated Development programmes.

Activities

- ❖ Choice Based Credit System implemented in the University is in operation. The University has framed syllabi for the following new UG Degree courses viz. B.A. Functional English, B.Com. Finance and Accounts, B.com. Computer Applications and B.Sc. Software Engineering and B.Sc. Statistics and B.Sc. Food Processing.
- ❖ The Post Graduate Extension Centre has been established at Arignar Anna Government Arts Collge, Villupuram with four courses viz. M.A. English, M.Com., M.Sc. Mathematics and M.Sc. Chemistry.

- ❖ Two constituent colleges have been established, one at Thennangur in Thiruvannamalai District and another at Thirrvannainallur in Villupuram District.

- ❖ Five departments have been started from the academic year 2011-2012 viz. M.Sc. Chemistry, M.Sc. Biotechnology, M.Sc. Mathematics, M.A. Tamil and M.A. English.

- ❖ All the Departments of this University are offering Post Graduate, M.Phil. and Ph.D. Programmes. Faculties and Research Scholars have published their work in National and International Journals.

- ❖ Two constituent Colleges have been established from the academic year 2011-2012, one at Kallakurichi in Villupuram District and another at Tirupattur in Vellore District.

- ❖ The Thiruvalluvar Institute of Distance Education (TIDE) has been established from the academic year 2011-2012.

- ❖ Men and Women students of the affiliated colleges of Thiruvalluvar University have participated in South Zone and All India Inter University level sports competitions.

Achievements

Infrastructure

4.67 6.54.0 hectares of land have been allotted for the construction of constituent colleges at Tirupattur.

MoU Signed

4.68 An MoU has been signed with the Vision for Wisdom, Aliyar for offering UG, PG Diploma Courses in Yoga for Human Excellence, under the Distance Education mode.

Projects

4.69 Department of Science and Technology(DST), Government of India, New Delhi sponsored three Research Projects and

one Research project was sponsored by Defence Research and Development Organisation(DRDO).

Activities/Schemes proposed to be undertaken during the year 2012-13

- ❖ To construct additional Academic Blocks, students Hostel for Men and Women, residential quarters for the Vice-Chancellor, Registrar, Controller of Examinations, Faculty Members and non-teaching staff, playground and other students amenities.
- ❖ To establish Dr. Ambedkar Studies to offer P.G. and Research Programmes.
- ❖ To construct Multi Purpose Auditorium.

TAMIL NADU OPEN UNIVERSTIY

4.70 The Tamil Nadu Open University was established in the year 2002 mainly to cater to the Higher Educational needs of school drop-outs who could not continue their education at the right age due to various socio – economic factors. The University is the 10th State Open University to be established in the Country. It has been given recognition by University Grants Commission, Distance Education Council and Association of Indian Universities. “Education for all” is the noble aim of the University. The various schools of the University have prepared Self Learning Materials for all the programmes offered by them and have made wide use of the latest technology in the delivery mechanism.

4.71 At present, the University is successfully offering 101 Programmes through 143 Learning Resource Centres, 184

Community Colleges, 155 Computer Programme Centres, 21 B.Ed., Programme Centres, 11 University Co-ordinating Centres and 29 Learning Centres (outside Tamil Nadu) with a total enrollment of around 3.5 lakhs in all the programmes offered at various levels, to reach the unreached and underprivileged .

4.72 Considering the need of the poor students, the University has established 99 new Community Colleges to provide Vocational Education Programmes near their places during the year 2010-11. This facility has also been extended to the Prison Inmates in Tamil Nadu through Community Colleges. The University has provided free Vocational Education Programme for 1020 widows through its Community Colleges empowering them to face challenges and emerge as successful individuals.

ACHIEVEMENTS

4.73 With a view to spreading the Vocational Education to the nook and corner of the State of Tamil Nadu, 47 new Community Colleges have been established during the year 2011-2012.

MoU

4.74 An MoU between the Tamil Nadu Open University, Chennai and the Rehabilitation Council of India, New Delhi was signed on 4th October 2011 for offering Special Education and Rehabilitation Programmes through TNOU.

4.75 A Community College with Multi-Campus facility networking 32 District Head Quarters has been established in collaboration with Indian Red Cross Society (IRCS) in order to reach the unreached with the help of the IRCS, which is a leading service organization.

- ❖ Tamil Nadu Open University has been preparing and supplying e-Content CDs for various subjects, with the financial assistance received from the Distance Education Council, New Delhi. So far, the University has prepared 74 e-Content CDs. Additionally 10 new CDs have been prepared this year for M.A. Tamil studies.
- ❖ The Proposal of establishing the e-Studio has been approved by the Syndicate of the University. The work will be taken up after obtaining required Grant from the Distance Education Council, New Delhi.

Important Proposals to be undertaken during the year 2012-13:

- ❖ To bring out CDs on Sangam Literature
- ❖ To construct Academic Block at an estimated cost of Rs.8.44 Crores.
- ❖ To introduce 8 New courses viz.
 1. Diploma in Welding Technology
 2. Diploma in Industrial Fitter
 3. Diploma in Weaving Technology
 4. Diploma in Knitting Technology
 5. Diploma in Dyeing and Printing Technology
 6. Diploma in Fashion Merchandising
 7. Diploma in Cyber Law and Cyber crime Investigation
 8. Certificate in Human Rights for Transgenders

ANNAMALAI UNIVERSITY

4.76 Annamalai University was established in 1929 at Chidambaram. This University one of the premier institutes of higher learning, in India, is a unitary varsity with all the departments of study on the same campus. It comprises 10 faculties and 50 departments of study covering almost all fields of knowledge – Arts, Science, Education, Music, Languages, Engineering, Medicine, Agriculture, and Marine Science. It offers about 425 on-campus programmes. The Directorate of Distance Education of the University is the second largest in Asia. The varsity has evolved over these eighty-three years into a major stakeholder in the development of an enlightened society during and after the independence of our country. Its role in the building of the nation and the capacity building of its students is irrefutable.

4.77 The university, in response to the demand for Engineering, Technology, Agriculture, Marine Sciences and Linguistics, introduced innovative courses with all the necessary infrastructure. The facilities spurred study in new fields and research. The plethora of buildings and enhanced infra-

structure, bear testimony to the path breaking development of the university with the student intake increasing manifold. The establishment of the Directorate of Distance Education is another milestone.

4.78 The university's commitment to the society is evident from the ceaseless activities of Yoga Centre, NSS, Naval, NCC, and Red Ribbon Clubs, Social Service Leagues, medical camps, and extension activities of various departments. The centre for Rural Development, Agricultural Extension Wing, Rajah Muthiah Heart Foundation Centres, 24 hours Trauma Centres, ambulance services, etc have been engaged in innumerable humanitarian activities.

4.79 Placement cells facilitate the passed out students to gain career opportunities. Internal Quality Assurance Cells constantly assess the quality of learning and restructuring of the curricula.

4.80 The university has recently celebrated its Platinum Jubilee and conducted the Indian Science Congress.

TAMIL NADU TEACHERS EDUCATION UNIVERSITY

4.81 The Tamil Nadu Teachers Education University was established by Tamil Nadu Act 33 of 2008.

The important objectives of the University are as follows: -

- ❖ to monitor teachers education as approved by the National Council for Teachers Education at all levels in the State;
- ❖ to develop research facilities in teachers education and to find out the ways and means to identify innovative courses in teachers education;
- ❖ to workout the modalities to offer programmes in latest fields for the development of teachers education;
- ❖ to conduct and organize seminars, workshops and symposia in promoting teachers education with a view to offering programmes in the latest fields and to develop the extension activities;
- ❖ to establish and maintain University libraries, research stations and publication bureau;

Important Activities

- ❖ At present 639 Self Financing College of Education are functioning under the administrative control of Tamil Nadu Teachers Education University.
- ❖ Two day Workshop on Lesson Plan Writing for B.Ed. students was conducted during the year 2011.
- ❖ At present 110 candidates are doing Research under the ongoing Research Programme. 34 candidates have been admitted in July 2011.

Achievements

Curriculum Development

4.82 Held a Detailed discussion on "Methodology of Teaching to Teacher Educator" with Ms. Diana McGee, Ph.D., Director, Centre for continuing Education and International Programs John Abbott College, Canada.

Research and other Activities

- ❖ The training programme on Computer Education for all the Teachers of affiliated colleges situated in the districts of Chennai, Tiruvallur and Kancheepuram was conducted at NKT College of Education for Women, Triplicane, Chennai – 5. It is proposed to invite the teachers of the

affiliated colleges situated in the other districts of Tamil Nadu to participate in the programme in due course.

- ❖ The proposal to offer Certificate Course in *Manavalakalai* Yoga and Value education as suggested by the World Community Service Centre by the affiliated colleges as per the Regulations and Syllabus has been approved.

Activities/Schemes Proposed to be undertaken during 2012-13 :-

- ❖ To take necessary action for creating Building and infrastructural facilities.

ANNA UNIVERISTY, CHENNAI

4.83 Established on 4th September 1978 as a unitary type of University to promote teaching and research in the field of Engineering, Technology, Architecture and Applied Sciences by bringing together the College of Engineering Guindy, Alagappa College of Technology, Madras Institute of Technology, Chromepet and School of Architecture and Planning, Anna University has emerged as an apex institution in the arena of technical education.

4.84 Anna University constantly strives for excellence in education, research and societal service through competent teachers who are also experts in research in various emerging and advanced technologies.

4.85 The five Anna Universities of Technology at Trichy, Madurai, Coimbatore, Chennai and Tirunelveli have been merged with Anna University, Chennai through legislation.

Objectives of the University.

- ❖ To raise the quality of engineering education to produce superior human resource to match rapid technological developments,
- ❖ To share its academic experience and infrastructure with other institutions for providing quality education across the state and help students to fulfill their dreams,
- ❖ To uphold the highest ethical and professional standards while imparting engineering education and while fulfilling its obligations to students and staff.
- ❖ To serve the society with technological advancement and to actively take part in building knowledge-based society.

Development of the University

4.86 Anna University during the 34 years of its existence has progressed enormously in all the fields of Science, Engineering and Technology. This is evident from the Developmental activities, increased staff strength, students' enrollment, construction of many new buildings, introduction of innovative courses, creation of Departments and Centres etc.

58 UG programmes (Full Time and Part Time), 109 PG programmes (Full Time and Part Time), 6 M.Phil. programmes and Ph.D. programmes in all the Engineering, Technology and Applied Sciences are in vogue. The University has also 34 Departments and 48 Autonomous Centres with well equipped laboratories and state-of-art infrastructure facilities.

Important Achievements of the University

- ❖ Anna University, Chennai is the first University to receive the Project for the Development of Micro Satellite from the ISRO. This is the first Satellite designed and developed by an Indian University.

- ❖ For the first time in the country, Airborne Laser Scanner acquired data have been used for Flood Risk Mapping Studies.

- ❖ 80 Nos. of Smart Class Rooms have been established at the cost of Rs.2.10 crores in the University.

- ❖ A Professional Chair has been established in the name and style of "Perarignar Anna Professional Chair"

for the cause of development of technical education including industrial training and collaborative research in Tamil Nadu with a corpus fund of Rs.50 lakhs.

- ❖ Anna University established a placement and training cell in the year 1991 and 3500 students (U.G. and P.G.) have been placed during 2011-12.
- ❖ Anna University, Chennai occupies the second position in the e-journal access made available at State Level and eleventh position at the International Level under UGC Infonet Programme.
- ❖ Anna University, Chennai has been awarded "Island of Excellence" by UGC to create a University Centre with potential for Excellence in Environmental Sciences.
- ❖ Knowledge Data Centre (KDC) is a technology resource centre created to promote, enhance and support the academic and research work of the students and faculty members of Anna University. KDC will provide e-learning, digital library, portal, web services, e-education and e-governance services.

KDC will ensure the availability of software and relevant web based training to all the 550 plus Engineering colleges in the State of Tamil Nadu so as to equip the next generation of IT Professionals with the skill sets essential for the knowledge based economy.

- ❖ An MoU has been signed with Apollo Hospitals under which the Joint Clinical Trial Management (CTM) Certificate Course offered by Apollo Hospital Educational Research Foundation.

- ❖ The University has signed 16 MoUs with International Universities / Organizations and 4 MoUs with National Organisation and Industry partners.

- ❖ The faculty and students of the Department of Aerospace Engineering, MIT Campus have designed and developed an Unmanned Aerial Vehicle called **DHAKSHA** and the team is now selected for participation in the International level competition namely UAVFORGE-Air Vehicle Challenge, organized by Defence Advanced Research Projects Agency, USA.

- ❖ The AU-KBC has automated and networked all 32 District Central Libraries and Connemara Library in Tamil Nadu using the FOSS product **Koha** under an order from the Director of Public Libraries, Tamil Nadu State.

- ❖ Training Programmes were conducted through Anna Edusat for students on “Improving the Employability Skills of Students” from Cognizant Technology Solution and for the Faculty on “Latest Technologies” from Microsoft India.

- ❖ The Faculty members of the University have published 23 books during this Academic Year.

- ❖ Text books in Tamil for the I to IV semesters of B.E. Civil Engineering and Mechanical Engineering were printed and published.

- ❖ The University Grants Commission has sanctioned Rs.5.00 crores and released Rs.2.50 crores under second phase for the development of the scheme “Potential for Centre for Excellence in the field of Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Biotechnology, Aerospace Engineering, Software and

Wireless Technology and carried out the 7 projects, namely, (1) Environmental pathogen detection and surveillance, (2) Removal of endocrine disruptors, fluoride and arsenic from water sources using photocatalytic and nanotech processes, (3) Assessment of inherent toxicity of certain rocks and its impact on the environment, (4) Ecologically sensitive areas and environmental management in Tamil Nadu coast, (5) Recovery of hydrogen and other useful products from industrial waste gases, (6) Utilization of textile sludge in combination with fly ash for the production of construction materials and (7) Development of low carbon technologies for storage and drying of agriculture products.

- ❖ Anna University included the following core engineering modules which are attractive in the job market in the regular curriculum.
 - Computer Manufacturing; Cloud Computing; Robotics; Databases; Data Warehousing and Management; Mobile Communications and Technology; Mobile application Development; Multimedia; Animation and Gaming; Software Testing and

Quality Assurance; Networking; Wireless Communication; Application Programming; Research and Development in Peripheral Integration; Product Quality Control and Reliability Testing and Enterprise Resource Planning.

- ❖ Anna University has created Video Conferencing facility to modernize the teaching and learning from a distance and other sophisticated facilities such as Wireless Access Connectivity (Wi-Fi); Information and Communication Technology park (Internet Tree); Smart Class Room; centralized Hi-Tech computer centre with computational facilities, storage facilities, networking facilities, software development and web related facilities with state-of-the art servers, storage devices, network components and software.

Activities / Schemes proposed to be undertaken during 2012-13

- ❖ The University proposes to strengthen the Technical Education, Research in Science & Technology through satellite and video conferencing based learning.
- ❖ The University proposes to identify the value added courses in the relevant field of Engineering / Technology / Science so that one can increase the employment opportunity among students.

- ❖ The University proposes to establish strong Industry – Institute Partnership in the field of Teaching and Research and also to establish Industry – Institute Incubation Centres.
- ❖ The University proposes to establish “Centres of Excellence” in various fields of Engineering / Science to promote research in the thrust areas and societal needs.
- ❖ The University proposes to introduce Integrated Ph.D. Programmes for B.E. / B.Tech / B.Arch./ B.Sc Degree holders.
- ❖ The University proposes to improve the Anna University Administration through e-governance.
- ❖ The University proposes to conduct Research Fair every year on September 4, the date of inception of Anna University, highlighting the achievements of Research & Development in the University Departments/Centres.

5. TAMIL NADU ARCHIVES

5.1 The Tamil Nadu Archives and Historical Research Department was started in 1909. The Head Quarters is situated at Egmore, Chennai and six District Record Centres are functioning at Cuddalore, Coimbatore, Salem, Thanjavur, Madurai and Tiruchirapalli.

5.2 The Tamil Nadu Archives houses the records of various departments of the Secretariat, pre mutiny records of Collectorate and District Courts and records of defunct departments. The records dating back to 1657 A.D. are preserved in this Archives.

5.3 The major activities of the Archives are to centralize all permanent records, to arrange them properly to preserve them on scientific lines, to throw

them open for Historical Research. Tamil Nadu Archives houses about 65 lakh records of the Secretariat and the erstwhile Board of Revenue. Many authors, historians and researchers from Universities and Colleges, both Indian and foreign, have visited Tamil Nadu Archives for their research.

5.4 It is a Research Centre recognized by the University of Madras. There is also an Archival Library which is very useful for research purpose. It is a reference library for bonafide Public Scholars and Researchers. The books registered under the Press and Registration of Books Act 1867 are also preserved here.

5.5 In order to preserve the records, digitization of the same by scanning and microfilming is being done in a phased manner. For this purpose, Storage cabinets for Microfilms, Heavy Duty Invertors,

Storage server with accessories, Hardware and software for processing and digitization of Government Gazettes and accessing digitized data, have been purchased to the tune of Rs. 40 lakhs.

5.6 In addition to this, a sum of Rs. 40 lakhs has been earmarked for the purchase of following items during the year 2012-13:-

- ✓ Purchase of Steel Racks for Library and Gazetteer Section
- ✓ Digital Scanning and Microfilming of mended records of pre 1900 and records of post 1900 (Phase I)
- ✓ Digitization of Indices from 1900 onwards
- ✓ Purchase of drying racks and pedestal fans for Tamil Nadu Archives and 6 District Record Centres
- ✓ Purchase of Computers and Peripherals
- ✓ Purchase of Vacuum cleaner for removing dust from the records at Tamil Nadu Archives
- ✓ Purchase of Pressing Machine
- ✓ Purchase of water purifiers (Aquaguard or equivalent) for providing safe drinking water to Research Scholars at Tamil Nadu Archives

6. SCIENCE CITY

6.1 The Guindy-Tharamani area in which educational and research institutions of State and Central Governments like Anna University, Indian Institute of Technology (IIT), Central Leather Research Institute (CLRI), Tamil Nadu Science and Technology Centre etc. are situated has been declared as Science City. The primary goal of Science City includes promotion of Science and Technology components, technology transfer component involving industrial houses and venture capital agencies and global technology.

Important Activities of Science City

6.2 Organising Popular Lectures, Meet the Scientist programme, Conferences / Seminars, Science Exhibitions, Science Camps, Science Festival, Awareness Campaigns in Frontier Technologies, Science and Technology programmes for the differently abled and the economically weaker students, environment related programmes like harnessing wealth from waste, etc. are the important activities of Science City.

6.3 512 students from rural areas, 51 Women Scientists and 18 Women have been awarded Children Science Academy Awards, Tamil Nadu Young Women Scientists Award, Tamil Nadu Lifetime Achievement Award for Women respectively.

6.4 Around 500 Post Graduate students were benefited from 3 Awareness Campaigns in Genetic Engineering, Nano-technology and Communication technology conducted at a cost of Rs. 6 lakhs.

6.5 Around 1,000 differently abled children benefited from 10 programmes on Science and Technology, organized at a cost of Rs.4 lakhs.

6.6 Around 400 students benefited through 3 Awareness Campaigns organized, on Frontier Technologies such as Stem Cells, Nano-technology, Information & Communication Technology with a total expenditure of Rs.3 lakhs.

6.7 A sum of Rs.7 lakhs was incurred for organizing workshops on Bio-technology, Information & Communication Technology, Tissue Culture, Virology, Nano-technology and Nuclear Technology and 475 Post Graduate students benefited.

6.8 Training on Global Warming, Disaster Mitigation, Astronomy, Bio-diversity, Advance Instrumentation was imparted to 500 School / College Teachers at a cost of Rs.3 lakhs.

6.9 Seminars in Science & Technology were conducted for the benefit of 1,200 different categories of differently abled Children, at a cost of Rs.3 lakhs.

Chennai Science Festival 2012

6.10 Chennai Science Festival 2012 comprising of Mega Science Exhibition, Public Lectures, Panel Discussion, Science demonstration, Scientific Entertainment and competition in Science was organized in the month of January 2012 with an expenditure of Rs.15 lakhs. More than 30,000 visitors visited the festival. Mega Science Exhibition on 5 General topics such as Energy, Environment, Health, Basic & Veterinary Sciences apart from Live exhibits from Tamil Nadu Veterinary and Animal Sciences University was held and 120 stalls were put up for the Mega Science exhibition.

SCHEMES FOR THE YEAR 2012-13

6.11 Nano Revelation - 2012

A series of 12 seminars will be organized every month on select areas of Nano Science and Nano-technology to educate the college students on the application of Nano-science and Nano-technology and their developments across the world. Scientists and Academicians from across the Country would be invited for the seminars.

6.12 CHENNAI SCIENCE FESTIVAL 2013

A sum of Rs.15 lakhs has been allocated for conduct of Chennai Science Festival 2013 which would include Mega Science Exhibition, Public Lectures, Panel Discussion, Science demonstration, Scientific Entertainment and competition in Science.

6.13 Science News Publication in Tamil

Science City is publishing "Science City News Letter" a monthly English News magazine free of cost. For the benefit of students action is being taken to publish Science News Magazine in Tamil from 2012-13.

This magazine will be distributed to Schools, Colleges, Research Institutions, State and Central Government Organizations, Government Aided Institutions, Non-Governmental Institutions in Chennai City and nearby areas and all universities in Tamil Nadu free of cost. This magazine will be brought out once in four months.

7. TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION

BRIEF HISTORY OF THE COUNCIL

7.1 The Tamil Nadu State Council for Higher Education (TANSCHE) was established by an Act of the Tamil Nadu Legislative Assembly in the year 1992 for the promotion and coordination of Higher Education at the State level and coordination of the State level programmes with those of University Grants Commission. The State Council functions with two divisions

- (a) The Council with its Members
- (b) The Advisory Board of Vice-Chancellors of Universities in Tamil Nadu as its Members.

7.2 ACTIVITIES / SCHEMES UNDERTAKEN DURING THE YEAR 2011-12

- ❖ An Orientation/Training Programme was given to 850 newly recruited teachers of Government Arts and Science Colleges.
- ❖ Continuation of 'Student Mini Project' scheme: 50 projects - 15 UG projects each with Rs.5,000/- funding and 35 PG projects each with Rs.10,000/- funding were selected

7.3 Activities/ Schemes proposed to be undertaken during the year 2012-13

- ❖ Providing training in 'Educational Software Development for College teachers'

- ❖ Establishing an Academic Affairs Centre at TANSCHÉ to undertake central responsibility with regard to wide range of issues related to Higher Education policies and practices

- ❖ Conducting Orientation/Induction training for Prospective Principals of Government Arts and Science Colleges

- ❖ Extending the 'National Library and Information Services Infrastructure for scholarly content (N-LIST)' to Government Colleges in Tamil Nadu

- ❖ Introduction of 'Minor Research Project Scheme' for teachers in Government Arts and Science Colleges.

- ❖ Increasing the number in 'Student Mini Project Scheme' for the Government Arts and Science Colleges

- ❖ Introduction of 'Best Teachers Award' for teachers in Colleges and Universities

- ❖ Increasing the number of 'Best College Awards'.

8. TAMIL NADU SCIENCE AND TECHNOLOGY CENTRE

8.1 In order to create scientific temper among young generation, Tamil Nadu Science and Technology Centre was started in 1983. The Centre organizes various programmes in the areas of Astronomy and Astrophysics to remove superstitious beliefs about the celestial events. To cater to the needs of other parts of Tamil Nadu, Regional Science Centre at Tiruchirappalli and District Science Centre at Vellore have been established.

8.2 The Science and Technology Centre organises and conducts Temporary Exhibitions, Short-Term Courses in Astronomy, Computer Workshops, Seminars and Lectures on Science, Summer Science Camps, Winter Science Camps, Astronomy Camps, Math Talent Contests, Astronomy Olympiads, Astronomy Talent Contests and

Programmes such as “Meet the Scientist”, “Meet Your Medical Expert”, etc., for the benefit of student community.

8.3 Further, Tamil Nadu Science and Technology Centre conducts science based hands-on experience programmes, quiz programmes, elocution competitions and essay competitions on Science, drawing competitions, Science and Technology exhibitions in all districts and at State level for developing hands-on experience ways to learn Science and Technology concepts, keeping in view both students and teachers, to create awareness on Science and Technology. Besides these, during significant astronomical events, explanatory camps are conducted providing for ‘Night Sky Watch Observation’ through telescopes. Also, hands-on experience training programmes are conducted for the teachers to improve their teaching skills in science.

ACTIVITIES

8.4 There are various galleries on Science and Technology in Periyar Science and Technology, Chennai besides the models of Five types of lands described in Ancient Tamil Literature. There are exhibits on various scientific principles, in the Science Park to enable children enjoy learning the concepts of Science and Technology effortlessly. Also, 3D Science Theatre and Birla Planetarium have been provided in Periyar Science and Technology Centre, Chennai.

- Anna Science Centre – Planetarium in Tiruchirappalli, is actively engaged in popularising Science and Technology in the adjoining districts. 3D Theatre and Planetarium facilities have been provided.
- A District Science Centre has been established in Vellore at an estimated cost of Rs.298 lakhs. This Science Centre has four galleries on Science and Technology.

- A Regional Science Centre is being established in Coimbatore at an estimated cost of Rs.850 lakhs. This Regional Science Centre will be ready for inauguration before June 2012.
- A Gallery on Defence Research and Development at an estimated cost of Rs.100 lakh will be completed before the end of 2012. This gallery is intended to make the public aware of the technological developments taking place in our Defence Forces.
- “Ramanujan Gallery on Mathematics” is being established at an estimated cost of Rs.40 lakhs to eradicate the phobia prevailing among the student community with regard to learning Mathematics. This gallery will be opened to the public before July 2012.
- A Mobile Mathematics Bus at an estimated cost of Rs.25 lakhs will be put into use for the students and public before July 2012 to make learning of Mathematics enjoyable.

Activities for strengthening the Transport Gallery and Science Park will be completed before July 2012. In addition a new Nano-Technology Gallery will be opened to the public before July 2012. An Evolution Park will be ready for inauguration shortly.

- The work relating to the establishment of Herbal Garden in Anna Science Centre, Tiruchirappalli is nearing completion.
- Action has been initiated for alienation of land for establishment of District Science Centre in Kanyakumari.

8.5 Important schemes proposed to be implemented during 2012-13:-

- a) A Dinosaur Park depicting the evolution of life commencing from single cell upto Cambrian would be established at an estimated cost of Rs.45 lakhs in Periyar Science and Technology Centre, Chennai.
- b) To make the public aware of the need to explore the possibility of harnessing the non-conventional sources of energy, a Non-Conventional Energy Park will be established at an estimated cost of Rs.140

lakhs in Periyar Science and Technology Centre, Chennai, this year.

- c) To enlighten the student community of the Space Mission Programme, a Space Technology Gallery would be established at an estimated cost of Rs. 50 lakhs during the Year 2012–13 in Periyar Science and Technology Centre, Chennai.
- d) To remove fear about the Nuclear power, a Nuclear Power Gallery would be established at a cost of Rs.2.40 Crores with the assistance of Nuclear Power Corporation, during the Year 2012 –13 in Periyar Science and Technology Centre ,Chennai.
- e) Regional Science Centre with 3 galleries and Science Park is proposed to be established at a cost of Rs. 8.50 Crores in Dharmapuri during the Year 2012 –13.
- f) To Inculcate scientific temper among the student community through hands – on – activities during leisure times in schools , School Science Centres each with 25 participatory type of exhibits will be established in 50 schools at a cost of Rs. 50 Lakhs.

9. TAMIL NADU STATE COUNCIL FOR TECHNICAL EDUCATION

9.1 Tamil Nadu State Council for Technical Education was constituted as per Tamil Nadu State Council for Technical Education Act 2010 and the Council started functioning since 18.6.2010 for making State Level planning on the Development of Technical Education.

FUNCTIONS OF THE COUNCIL

9.2 The main aim of the council is to coordinate and determine the standards in college and Scientific Research in Technical Education; to evolve perspective plans for Development of Technical Education in the State; to forward the developmental programme of Technical University and Colleges to the University Grants Commission and All India Council for

Technical Education and also to assist them in maintenance of Norms and standards; to promote Industry – Institute interaction; to promote curriculum development; to improve standards of examinations; to enhance quality of research and to organize Faculty Development programmes.

ACTIVITIES UNDERTAKEN

9.3 A perspective plan for enhancement of quality of Technical Education in the State has been prepared under the heads; maintenance of Norms and Standards, Enhancement of Curriculum, Reforms in Examinations, Quality through Accreditation, Research and Development Activities, Industry Institute Collaboration, Faculty induction and development Programmes, Enhancement of employability, Skill Development for Rural Poor, Inculcation of Ethics and Values, Promotion

of Autonomous Colleges, creation of Data base, Creation of Library and Three tiered Engineering Education.

9.4 ACTIVITIES TO BE UNDERTAKEN DURING 2012-2013

- ❖ To conduct Seminars / Workshops on quality assurance, Faculty Development Programmes in thrust areas in Engineering and Technology.
- ❖ To enhance quality of research with industry participation in colleges of Engineering and Technical University.
- ❖ To facilitate training of Teachers of Technical University and Colleges and to oversee the functioning of the Academic Staff College through co ordination
- ❖ To prepare a report on the working of the Technical University, Engineering Colleges and Polytechnic Colleges in the State.

- ❖ To set up a State Technical Research Board linking the Research of Technical University with that of Research Agencies and industry and to promote Scientific Research in the Technical University / Colleges.
- ❖ To create and maintain a data base with the collection of essential Data.
- ❖ To promote Institutes of Excellence within or outside the Technical University system in frontier areas of knowledge.
- ❖ To create a Library with the collection of latest information with up to date technology in all the disciplines of Technical Education in the form of books, periodicals, reports, CDs/DVDs etc.

10 Tamil Nadu State Council for Science and Technology

10.1 To undertake research and development in scientific disciplines, the Tamil Nadu State Council for Science and Technology was constituted as an Autonomous Apex body in 1984. In the past 27 years, the Council has implemented various Science and Technology schemes.

Important Schemes Science & Technology Projects

10.2 Research in sectors such as Agriculture, Environmental Sciences, Physical Sciences, Biological Sciences, Veterinary Sciences, Medical Sciences, Social Sciences & Engineering and Technology are undertaken by providing Financial Assistance to scientists & researchers for carrying out Research & Development work on topics of Social relevance. During 2011-12, 9 research

projects were supported to the tune of Rs.18.15 lakhs. During 2012-13, 15 projects will be supported with the budget of Rs.35 lakhs.

Students Project Scheme

10.3 A grant of Rs.10,000/- is given to final year students of Under Graduate / Post Graduate courses in Engineering / Medicine / Agriculture/ Veterinary Science and Post Graduate students of Science for undertaking socially relevant projects under their curriculum. During the year 2011-12, 200 student projects were supported with a budget of Rs.14 lakhs and nearly 800 students were benefited. During 2012-13, 250 projects will be supported with the budget of Rs.20 lakhs benefiting 900 students.

Travel Grant for Young Scientist

10.4 50% of the Airfare is given to young Scientists and Researchers (Below 40 years) working in University College Research Centre in Tamil Nadu to participate in International Conferences. 100% First class Train fare is given to those Scientist or Researchers to participate in National Scientific Conferences and to submit research findings. During 2011-12, 13 scientists have been supported with a total outlay of Rs.3 lakhs. They have presented research papers on Material Science, Bio-informatics, Computer Science, Textiles, Seafood etc. During 2012-13 Travel Grants will be given to 13 scientists with the budget of Rs.3 lakhs.

10.5 Young Scientist Fellowship Scheme

Young Scientists and Researchers (Below 35 years) are provided with Fellowship for a period of two to six months. Selected Scientists will undergo training/learn sophisticated instrumentation techniques or modern research methodologies or do collaborative research work with senior scientists in any of the Research Centres/ Universities within India. During 2011-12, 9 scientists have been supported with a total outlay of Rs.1.10 lakhs. During 2012-13, 15 scientists will be supported with the budget of Rs.3 lakhs (with fellowship of Rs.10000/-p.m.). They are trained in institutions such as IIT Guwahati, IISC Bangalore, CDRI Lucknow etc.

10.6 Tamil Nadu Scientist Award (TANSA)

In order to encourage Scientist and Researchers who have made significant contribution in their field of specialization of Agriculture, Biology, Chemistry, Engineering and Technology, Social Environment, Medicine, Mathematics, Physics, Social Science and Veterinary Science leading to Science and Technology development in the State, Tamil Nadu Scientist Award is given. Cash and citation are awarded to selected Scientists. During 2011-12, 10 scientists are awarded with a total outlay of Rs.2 lakh. During 2012-13, TANSA will be awarded to 10 scientists with the budget of Rs.3.50 lakhs (Cash award Rs.25000/- each for 10 awardees).

10.7 Popularisation of Science and Technology

Under this scheme, financial support is provided to Universities, Colleges and Voluntary Organisations to conduct Science Exhibitions, Teacher Training Programmes, Popular Lectures on various aspects of Science and Technology. During the year 2011-12, 65 organizations were supported with a total budget of Rs.10.28 lakhs to conduct various programmes and about 2.50 lakh students, researchers and public were benefited. During 2012-13, about 70 organisations will be supported with a budget of Rs.10.50 lakhs and 3 lakh people will be benefited.

10.8 Young Students Scientist Programme

Talented young students in 9th standard are given exposure in Science and Technology in a reputed College or

University. During 2011-12, training to 400 students in 10 districts was given with a budget of Rs.12 lakhs. Students from Karur, Trichy, Madurai, Sivagangai, Virudhunagar, Ramnad, Thanjavur, Tiruvarur, Perambalur and Ariyalur Districts are benefited. During 2012-13, 800 students from 20 districts will be trained with the budget of Rs.30 lakhs.

10.9 Assistance for Science and Technology Publications

Financial Assistance is provided to Scientists to bring out Scientific publications in Tamil for the benefit of Children / General Public / Researchers. During 2011-12, Rs.0.36 lakhs was given to three publications which have benefited 10000 students and researchers. In the year 2012-13, this scheme will be implemented with an allocation of Rs.0.40 lakhs to benefit 10,500 students.

10.10 Technology Innovation and Dissemination

Innovations with potential for field applications are disseminated by educationists and scientists through training programmes and workshops. During the year 2011-12, 16 programmes were conducted with an outlay of Rs.6.05 lakhs benefiting 430 people. Topics such as Eco friendly dyeing, empowering rural women through vermicompost technology, modern agricultural practices etc. were covered. During 2012-13, 17 programmes will be conducted at a cost of Rs.9 lakhs. About 450 individuals will be benefited.

10.11 Quality Improvement of Science Education in Rural Schools

In service Training Programme for Science Teachers of 6th, 7th and 8th standards is organized in Arts and Science College to improve the quality of Science Education for

Rural School Children. During the year 2011-12, 10 training programmes were conducted in 10 Districts with a budget of Rs.9.68 lakhs and 500 teachers were trained from Tuticorin, Salem, Thanjavur, Trichy, Virudhunagar, Coimbatore, Erode, Sivagangai, Krishnagiri and Tiruppur districts. During 2012-13, 10 programmes will be conducted in 10 districts with budget of Rs.10 lakhs.

10.12 Creation of Scientific Awareness

The objective of the programme is to create Scientific awareness among Rural School students, Rural Farmers and self-help groups by transferring the Research work carried out in Colleges, Universities and Research Institutions. During the year 2011-12, this programme was conducted in the Districts of Trichy, Karur, Salem, Namakkal, Theni, Nagapattinam, Virudhunagar,

Thanjavur, Tuticorin and Ramanathapuram with a budget of Rs.6.05 lakhs. During 2012-13, this programme will be conducted in 10 districts with a budget of Rs.6.50 lakhs.

10.13 Science and Technology Capacity building for Industrial needs

The objective of this programme are two fold a) to enable graduates to acquire skill sets relevant to industries and b) to motivate them to opt for self employment. This programme would act as a bridge course reinforcing institute-industry interaction.

During 2011-12, this programme was organized in the districts viz. Kanyakumari, Vellore, Tiruchirapalli, Krishnagiri, Tirunelveli, Erode, Tiruppur, Namakkal, Coimbatore and Theni. Nearly 3000 Polytechnic and Engineering College students were benefited.

10.14 Application of Science and Technology in Rural Areas

The Scheme envisages transfer of science and technology techniques and findings to rural areas. During 2011-12, 10 programmes were arranged in the districts of Tiruvannamalai, Kanchipuram, Ariyalur, Tirunelveli, Namakkal, Perambalur, Ramanathapuram, Vellore, Tiruppur and Pudukottai at a cost of Rs.12.10 lakhs benefiting 5000 rural people. During 2012-13, this programme will be implemented at a cost of Rs.14 lakhs and 5000 farmers, artisans and rural people will be benefited.

10.15 Partial Assistance for Seminar / Symposium / Workshop

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 organizations within the State of Tamil Nadu, who organize such seminars / symposia / workshops. During 2011-12, 34 organizations were supported with a total outlay of Rs.3.40 lakhs During 2012-13, 50 organizations will be supported with the budget of Rs.10 lakhs.

10.16 **Programme for bridging the gap in research funding for research scholars in colleges**

This scheme will benefit research students at college level to do research on their new ideas and fill the gap in research funding. The number of Higher Educational and research institutions of our state is growing every year but the research funding is not available to research scholars in many of these institutions. If the gap in research funding is addressed, it will pave way for

many innovative ideas to be tested and it would yield not only research data but also improvement and development of Scientific manpower. Particularly, colleges and institutions set up in rural areas are in a disadvantage when compared to universities which are able to attract many project funding through various schemes of central funding agencies. Therefore, it is proposed that research proposals may be invited from research scholars through colleges of our state and after evaluation by experts about 2-3 projects may be supported for funding. It is proposed to implement this scheme with the budget of Rs.15 lakhs during 2012-13.

10.17 **Hon'ble Chief Minister's Special Scheme to Rejuvenate and Revitalise research and innovation in our Universities – Improvement of Science and Technology Manpower**

The Young Professors and Scientists working in our Government Universities, though highly qualified, they are not sufficiently trained and exposed to the International Research in their respective field. If it is provided to them they will be able to compete with their counter parts in any other country with confidence and expertise. Therefore, it is proposed that selected young Professors and Scientists of our Government Universities may be sent abroad to institutions of excellence in their respective fields particularly in areas such as Nanotechnology, Biotechnology, Climate Research, Energy Research, Stem Cells Research etc. through Hon'ble Chief Minister's Special Programme. It is proposed to implement this programme with Rs.1 crore budget during 2012-13.

11. TAMIL NADU STATE URDU ACADEMY

11.1 The Tamil Nadu State Urdu Academy was established for the promotion of the Urdu language. Hon'ble Minister for Higher Education is the Chairman of the Academy.

11.2 Activities:-

- a) The Academy co-sponsored an all India Mushaira conducted by National Chamber of Commerce.
- b) Two day Urdu Seminar and Mushaira had been conducted.
- c) Academy gave "Dr Abdul Huq Award " of literary Excellence to six poets with cash award of Rs.25000/- each at the public function and also gave merit award and cash prizes to State rank holders in Urdu language.

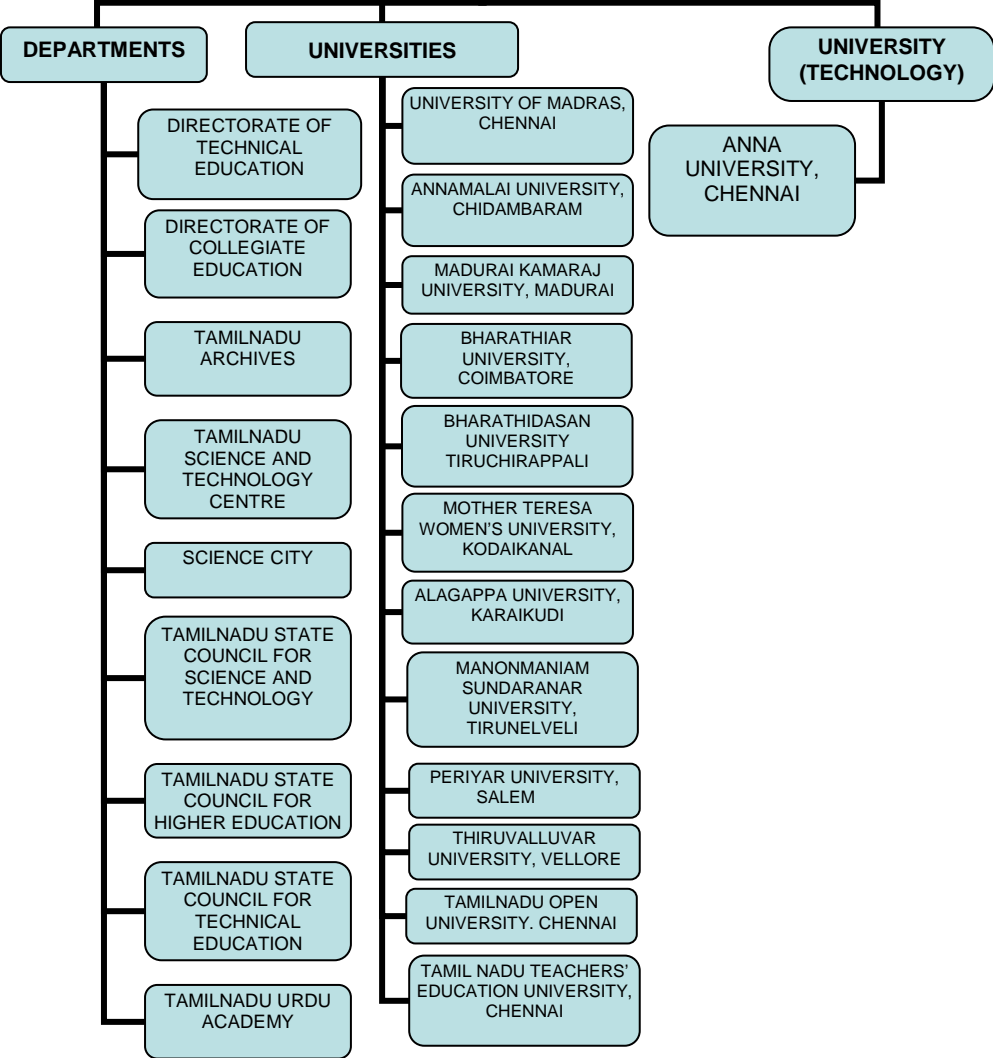
11.3 Activities / Schemes proposed to be undertaken during 2012-13.

- i. To grant award of merit cash prizes and scholarships to meritorious Urdu students.
- ii. To Grant of financial Assistance to Urdu coaching centres.
- iii. To conduct a local Mushaira thereby helping poets who nurture the Urdu language through their poetry.

P. Palaniappan
Minister for Higher Education

ORGANOGRAM

CHIEF MINISTER
MINISTER
(HIGHER EDUCATION)
CHIEF SECRETARY
ADDITIONAL CHIEF
SECRETARY
(HIGHER EDUCATION)



COLLEGIATE EDUCATION

ANNEXURE- 1

NUMBER OF COLLEGES IN THE STATE UPTO 2011-2012

TYPE OF COLLEGES	GOVERNMENT COLLEGES	GOVT.-AIDED	SELF FINANCING	TOTAL
Arts and Science Colleges	62	133	421	616
Physical Education	-	3	8	11
Oriental	-	10	-	10
School of Social Work	-	2	-	2
College of Education	7	14	639	660
University Constituent Colleges	24	-	-	24
Total	93	162	1068	1323

ANNEXURE- 2

NUMBER OF STUDENTS ADMITTED DURING 2011-2012

Type of College	Sanctioned Strength						Admitted Strength					
	UG	PG	M.Phil	B.Ed.	Ph.D	Total	UG	PG	M.Phil	B.Ed.	Ph.D	Total
Govt. Colleges	46984	5417	573	1169	169	54312	46898	5377	539	1169	169	54152
University Constituent Colleges	7623	321	0	0	0	7944	7623	307	0	0	0	7930
Aided Colleges	97829	19982	2548	1818	443	122620	82682	19949	2537	1818	443	107429
Self-financing Colleges	108997	25695	1177	66157	228	202254	89924	15294	1164	5929 7	228	165907
Total	261433	51415	4298	69144	840	387130	227127	40927	4240	6228 4	840	335418

TECHNICAL EDUCATION

ANNEXURE -3

DETAILS OF NUMBER OF POLYTECHNIC COLLEGES , SANCTIONED STRENGTH AND STUDENTS ADMITTED IN POLYTECHNIC COLLEGES DURING THE ACADEMIC YEAR 2011-2012

Category	No. of Institutions	Sanctioned Intake	Admitted	OC		BC (Others)		BC (Muslim)		MBC		SC		SC (A)		ST		TOTAL	
				Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Govt. - Regular	30	8350	7924	50	42	2165	1087	225	59	1590	672	1180	452	183	81	108	30	5501	2423
Govt. - Shift	14(*)	3320	3111	43	14	1152	175	126	7	782	114	493	94	79	8	24	0	2699	412
Government -Aided	34	13842	11831	300	83	4640	1020	568	72	2445	468	1575	293	224	45	92	6	9844	1987
Affiliated	3	215	161	1	0	63	0	4	0	51	0	36	0	5	0	1	0	161	0
Self-Financing	380	145910	98658	8412	836	37192	3028	4365	167	27394	1680	13509	977	644	63	358	33	91874	6784
TOTAL	447(*)	171637	121685	8806	975	45212	5310	5288	305	32262	2934	16793	1816	1135	197	583	69	110079	11606

(*) : Not included in total, since it is included in the category – Government – Regular above.

ANNEXURE -4

DETAILS OF NUMBER OF ENGINEERING COLLEGES , SANCTIONED STRENGTH AND STUDENTS ADMITTED IN ENGINEERING COLLEGES DURING THE ACADEMIC YEAR 2011-2012

Category	No. of Insitutions	Sanctioned Intake	Admitted	OC		BC (Others)		BC (Muslim)		MBC		SC		SC (A)		ST		TOTAL	
				Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Govt.	6	2560	2434	96	62	708	485	55	37	336	203	199	157	47	29	15	5	1456	978
Govt-Aided	3	2645	2656	219	139	782	578	57	20	308	181	162	131	36	23	12	8	1576	1080
Self-Financing	498	213004	149045	15269	6526	43332	28288	4580	1564	22656	10952	9463	4781	963	401	211	59	96474	52571
SUB-TOTAL	507	218209	154135	15584	6727	44822	29351	4692	1621	23300	11336	9824	5069	1046	453	238	72	99506	54629
Anna University, Chennai	4	2305	2151	226	192	469	330	53	31	262	180	172	148	39	25	15	9	1236	915
Anna Univ. of Tech. Chennai	4	1140	1273	7	12	259	296	29	19	214	176	125	102	12	11	6	5	652	621
Anna Univ. of Tech. Tirunelveli	3	900	702	11	21	147	198	14	18	83	62	70	55	12	5	6	0	343	359
Anna Univ. of Tech. Madurai	2	780	598	8	4	161	100	16	10	102	53	63	50	14	7	9	1	373	225
Anna Univ. of Tech. Tiruchy	5	2700	2295	22	22	498	446	56	35	381	290	233	159	74	53	13	13	1277	1018
SUB-TOTAL	18	7825	7019	274	251	1534	1370	168	113	1042	761	663	514	151	101	49	28	3881	3138
GRAND TOTAL	525	226034	161154	15858	6978	46356	30721	4860	1734	24342	12097	10487	5583	1197	554	287	100	103387	57767

CHART - I
NUMBER OF STUDENTS IN ARTS & SCIENCE AND B.Ed.
COLLEGES IN TAMIL NADU DURING 2011-12

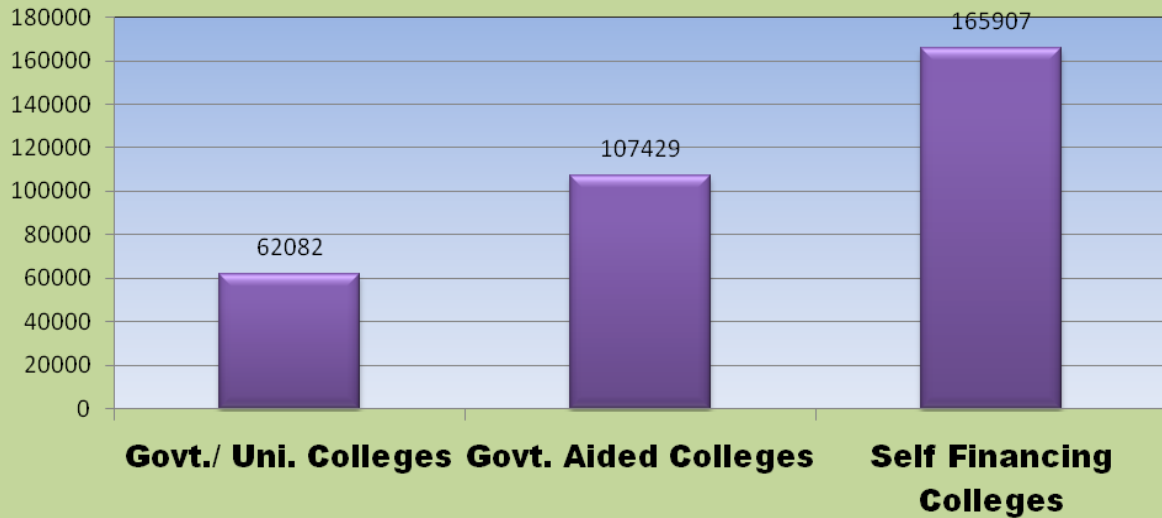


CHART-II

NUMBER OF ENGINEERING COLLEGES IN TAMIL NADU DURING 2011-2012

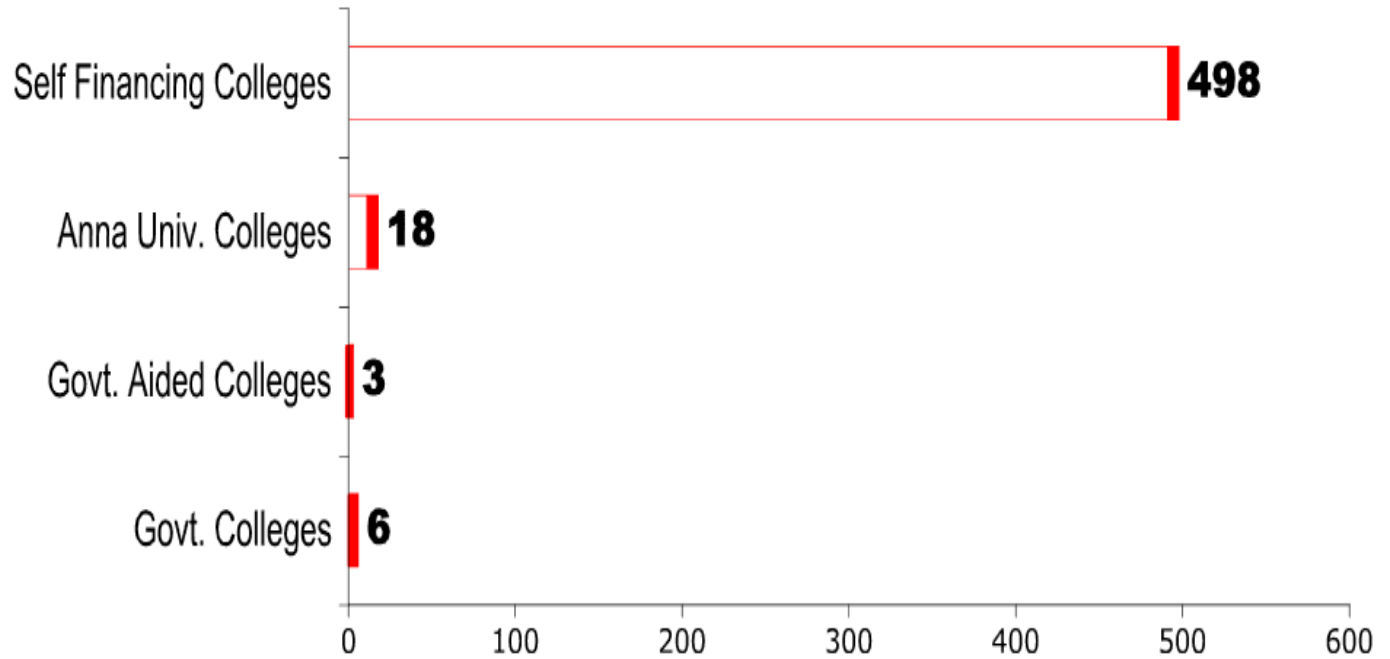


CHART - III

NUMBER OF STUDENTS ADMITTED IN ENGINEERING COLLEGES IN TAMIL NADU DURING 2011-2012

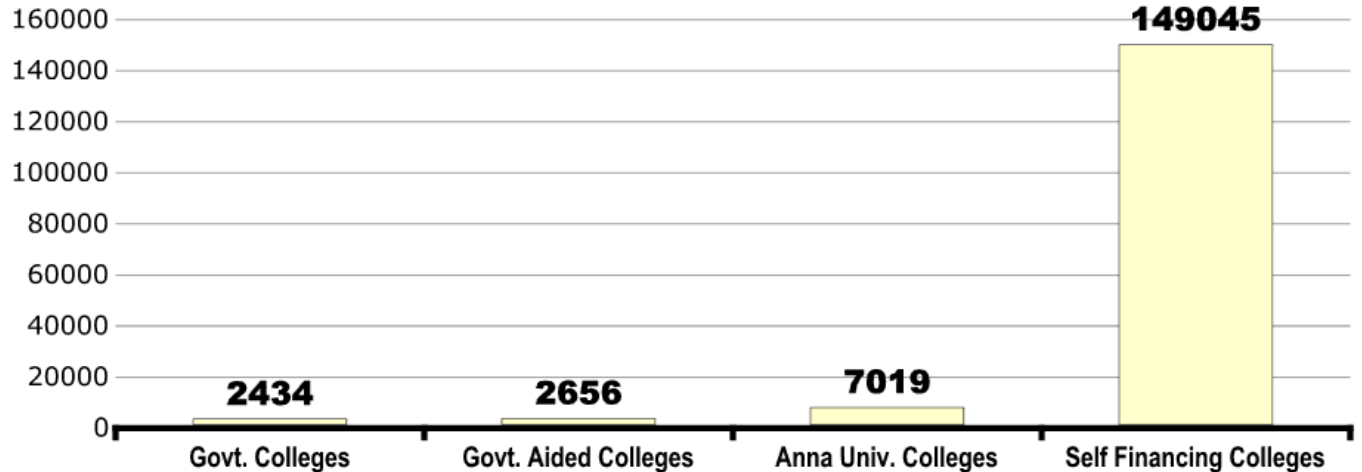


CHART - IV

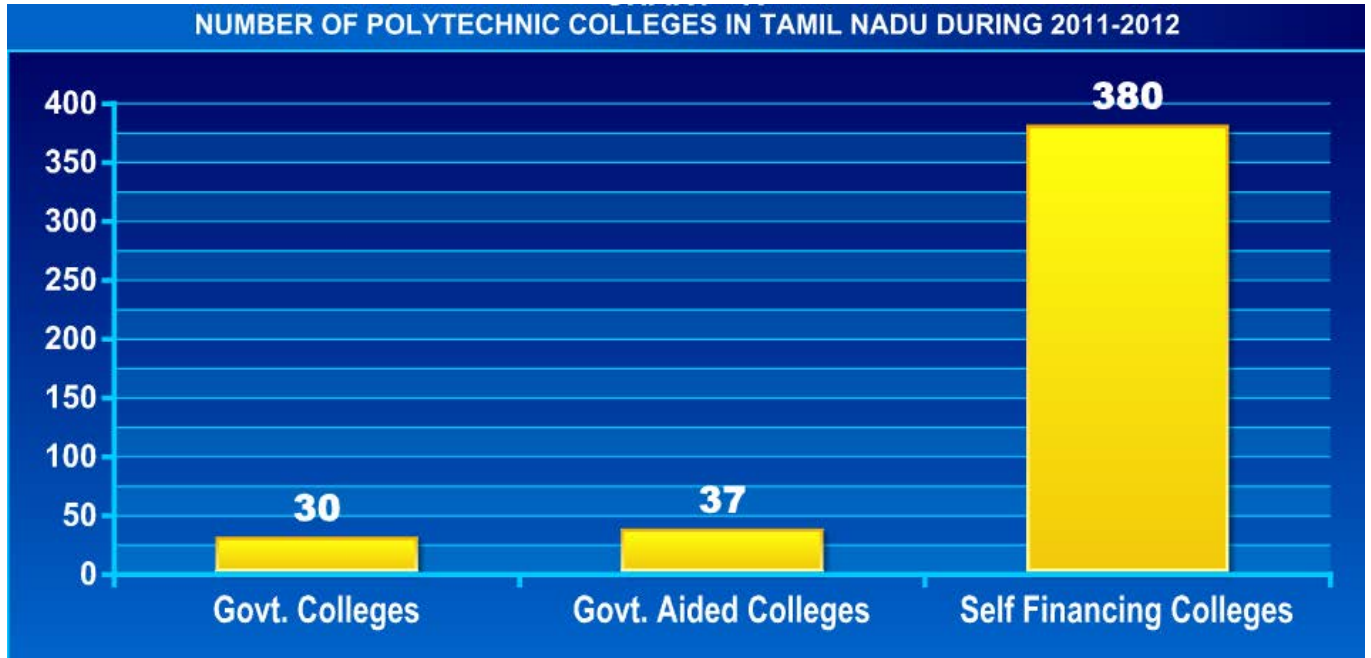
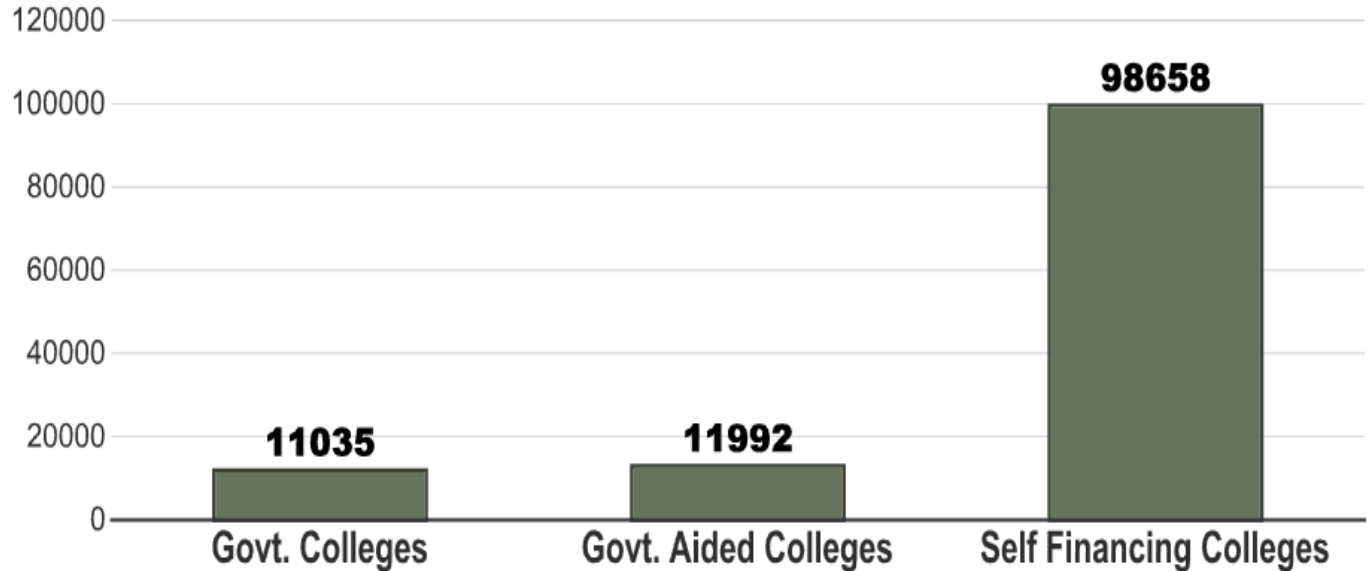


CHART - V

NUMBER OF STUDENTS IN POLYTECHNIC COLLEGES IN TAMIL NADU DURING 2011-2012



ANNEXURE – 5

**No. of students studying in the Distance
Education 2011-12**

Sl.No.	Name of the University	Students Strength	
		MALE	FEMALE
1.	University of Madras, Chennai – 5.	19550	23650
2.	Annamalai University, Annamalai Nagar.	162102	208165
3.	Madurai Kamaraj University, Madurai.	49383	74075
4.	Bharathidasan University, Tiruchirappalli.	3526	5867
5.	Bharathiar University, Coimbatore.	43399	32738
6.	Mother Teresa Women's University, Kodaikanal.	-	1396
7.	Alagappa University, Karaikudi	37361	34995
8.	Manonmaniam Sundaranar University, Tirunelveli.	17668	13479
9.	Periyar University, Salem	43371	18420
10.	Thiruvalluvar University, Vellore.	612	845
11.	Tamil Nadu Open University, Chennai – 25.	65134	54853
12.	Tamil Nadu Teachers Education University, Chennai – 5.	-	-
	TOTAL	442106	468483

ANNEXURE – 6

**No. of students studying in the University
Campus 2011-12**

Sl.No.	Name of the University	Students Strength (Studying in the University Campus)	
		MALE	FEMALE
1.	University of Madras, Chennai – 5.	1527	1451
2.	Annamalai University, Annamalai Nagar.	27963	6960
3.	Madurai Kamaraj University, Madurai.	794	924
4.	Bharathidasan University, Tiruchirappalli.	1039	1181
5.	Bharathiar University, Coimbatore.	696	957
6.	Mother Teresa Women's University, Kodaikanal.	-	1265
7.	Alagappa University, Karaikudi.	632	1054
8.	Manonmaniam Sundaranar University, Tirunelveli.	998	1610
9.	Periyar University, Salem.	724	681
10.	Thiruvalluvar University, Vellore.	143	114
11.	Tamil Nadu Open University, Chennai – 25.	-	-
12.	Tamil Nadu Teachers Education University, Chennai – 5.	-	-
	TOTAL	34516	16197