



HIGHER EDUCATION DEPARTMENT

POLICY NOTE  
2015-2016

DEMAND NO.20

P.PALANIAPPAN  
MINISTER FOR HIGHER EDUCATION

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Government of Tamil Nadu  
2015

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## **POLICY NOTE**

### **DEMAND NO.20 – HIGHER EDUCATION**

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#### **INTRODUCTION**

**“I envision that Institutions of Higher Education emerge as Centres of Innovation, Excellence and Development – that world-class education is offered to our youth in an all-encompassing and inclusive system. The Higher Education sector in Tamil Nadu is moving at an accelerated pace to meet the demands of the century, in terms of research and development and many schemes have been implemented with this in view.”**

**Hon’ble Chief Minister’s  
Convocation Address delivered  
at the 155<sup>th</sup> Annual  
Convocation of the University  
of Madras.**

Our **Hon'ble Chief Minister's** Vision 2023 envisages exponential development in all sectors, with a particular emphasis on taking Education in the State on a higher trajectory of growth along the path of excellence.

Education is indispensable as a powerful force, which gives impetus to human progress and catapults into society, empowered individuals. This can be achieved by transforming the potential wealth of our human resource into a very productive workforce, which ultimately augments the strength of the nation. At this juncture, the significance of imparting ethical values for the wholesome realisation of an individual's growth is paramount.

Today Tamil Nadu is a frontrunner, spearheading commendable development in all fields including Higher Education, thanks to the vision of the **Hon'ble Chief Minister of Tamil Nadu**. The objective of this Government is to enhance the quality of Higher Education, while making it affordable and accessible to all. It is also the desire of this Government to make Tamil Nadu a hub of higher studies with advanced Research and Development facilities on par with global standards. This would make Tamil Nadu a 'Knowledge Capital' and the most sought after destination for furthering higher studies and high end research.

In our country, Tamil Nadu has a special legacy in the field of education and its contribution to world education is

quite significant. The Universities have played a pivotal role in propelling higher education towards achieving tremendous progress.

There are 13 Universities under the aegis of Higher Education Department; 10 Government Engineering Colleges, 3 Government Aided Engineering Colleges and 546 Self Financing Engineering Colleges are affiliated to Anna University; 76 Government Arts and Science Colleges, 139 Government Aided Arts and Science Colleges and 448 Self Financing Arts and Science Colleges are affiliated to various universities of Tamil Nadu. While 672 Colleges of Education are functioning in Tamil Nadu in affiliation with Tamil Nadu Teacher Education University, 41 Government and 34 Government Aided

Polytechnic Colleges and 414 Self financing Polytechnic Colleges are run by Directorate of Technical Education. This plethora of diverse institutions effectively covers the entire spectrum of Higher Education, thereby catapulting the State to the topmost position in the country.

The Higher Education Department under the able guidance of the **Hon'ble Chief Minister of Tamil Nadu** is committed and accountable towards making students develop knowledge, skills, attitude and values through "Choice Based Credit System" along with periodic monitoring and evaluation of curriculum at U.G. and P.G. level.

A quality initiative framework has been provided by the **Hon'ble Chief Minister of Tamil Nadu** through the

following schemes to harness the excellent human resource available in our Universities in terms of equipping the students with life and entrepreneurship skills and knowledge to enable them to meet the requirements of society and the job market.

The frame work shall provide

- (i) Smart Classrooms with Video-Conferencing facilities.
- (ii) Foreign Language Laboratories.
- (iii) Entrepreneurship Cum Skill Development Centres.
- (iv) Visiting Professors from foreign Universities.
- (v) Curriculum Development Cells.
- (vi) University Business Collaboration Centres.



- (vii) Technical and Academic Writing Centres.
- (viii) Incubation and Technology Transfer Centres.
- (ix) Centres for Multimodal Material Production for differently abled.
- (x) Post Graduate Centres of Excellence.
- (xi) Soft Skill Centres in 30 Colleges under 5 Universities.
- (xii) Post Graduate Extension Centres.
- (xiii) Distribution of priceless Laptops.
- (xiv) Digitalization and Networking of Libraries.

With a view to taking Higher Education to the rural / back-ward areas in the state and to enable the poor and

downtrodden students to pursue higher studies at affordable cost in their localities, **Hon'ble Chief Minister of Tamil Nadu** has permitted the establishment of 14 Government Arts & Science Colleges, 24 University Constituent Arts & Science Colleges, 11 Government Polytechnic Colleges, 4 Government Engineering Colleges and 1 Indian Institute of Information Technology (I.I.I.T.) at Srirangam in the past four years starting from 2011. As a result, the Gross Enrolment Ratio of Tamil Nadu has risen to 42% as against the national average of 21% making our State number one in Gross Enrolment Ratio in the country.

Under the aegis of the **Hon'ble Chief Minister of Tamil Nadu**, a "Study Abroad Programme", a unique scheme, fully funded by the Tamil Nadu Government has been introduced in which meritorious students of Government Colleges from poor socio-economic background are given an opportunity to study one semester in United Kingdom (U.K). So far, as many as 50 students and 10 faculty members from various disciplines studied one semester in two batches in the following Universities / Institutions of U.K., in the year 2013-14 and 2014-15: (i) University of Nottingham, (ii) Sheffield Hallam University, (iii) University of Leeds, (iv) University of Leicester and (V) Salford University. During the current year, this

program is being implemented with funds from Tamil Nadu State Council for Higher Education (TANSCHE).

The Indian Institute of Information Technology has been established at Srirangam in Tiruchirappali district as ordered by **Hon'ble Chief Minister** as a Non-profit Public-Private Partnership (N-PPP) venture to cater to the needs of the students who are willing to pursue higher studies in the field of Information Technology.

Tuition fee concession is granted to First Generation Graduate Students admitted to Engineering Colleges in the State under Government quota through Single Window Counselling. For the year 2014-15, a sum of Rs.541.11 crore has

been spent and 2,83,379 students have benefitted.

The **Hon'ble Chief Minister** has sanctioned funds for improvement of infrastructure facilities to the existing University Constituent / Government Arts and Science Colleges.

Video Conferencing and Broadcasting Centres and "E-Yantra" Robot laboratories have been established in Polytechnic / Engineering colleges, in accordance with **Hon'ble Chief Minister's** Vision, with an aim to bridge the gap between acquiring knowledge through theoretical education and the exposure to latest trends in technology across the globe.

The Government under the leadership of **Hon'ble Chief Minister** has

also sanctioned required teaching and non-teaching staff and funds for construction of buildings for the Government Arts and Science / Polytechnic / Engineering colleges. Apart from this, the Government has introduced 959 new courses in the Government Arts and Science Colleges with the sanction of 1,924 Teaching posts in the last 4 years. These measures have greatly helped students to pursue higher studies in different disciplines and to make them employable in various fields. The Government has also taken steps to fill up teaching posts in the Government Colleges by appointment of regular teachers through Teachers Recruitment Board so that good quality education is imparted to the students.

As a tribute to former President Dr.A.P.J.Abdul Kalam, **Hon'ble Chief Minister** ordered the institution of Dr.A.P.J.Abdul Kalam Award. This Award includes a cash award of Rs.5 lakhs, gold medal of 8 grams and a certificate. This is an annual award to persons from Tamil Nadu who have contributed in the fields of development of science, humanities and welfare of students. This year the prestigious award was presented by our **Hon'ble Chief Minister** to Tmt.N.Valarmathi, Scientist / Programme Director, Microwave Remote Sensing Satellite, Indian Space Research Organisation (ISRO).

The impetus for the exponential growth in the realm of Higher Education in Tamil Nadu is solely attributed to the

people centric policies of the **Hon'ble Chief Minister** of Tamil Nadu. Her pragmatic reforms, generosity and far sightedness have ushered in a bright future for Tamil Nadu. This Department is committed to the vision of **Hon'ble Chief Minister** in making Tamil Nadu not only the numero uno State in India but also to place Tamil Nadu as a vital destination in the Global Map of Higher Education.



## Financial Outlay: 2015-16

Under Demand No.20 Higher Education, the total outlay is Rs.3696.81 crore, of which Rs.924.47 crore is for plan schemes and Rs.2772.34 crore is for non-plan schemes.

### BUDGET ESTIMATE FOR 2015-16.

Head of Account		Plan	Non-Plan	Total
		(Rs.In lakh)		
2059	Public Works Maintenance and Repairs	--	2661.19	2661.19
2202	General Education University and Higher Education	3139.21	229950.07	233089.28
2203	Technical Education	71752.35	42615.36	114367.71
2204	Sports and Youth Services	1296.84	-	1296.84
2205	Arts and Culture Archives	30.01	885.32	915.33
2235	Social Security and Welfare	-	60.09	60.09

2251	Secretariat Social Services	-	493.22	493.22
3425	Other Scientific Research	118.50	506.05	624.55
3454	Census surveys and statistics Gazetteer and Statistical Memoirs	-	62.90	62.90
4202	Capital outlay on Education, Sports, Arts and Culture	16110.44	-	16110.44
7610	Loan to Government servants etc.	-	0.01	0.01
	Total	92447.35	277234.21	369681.56

## 2. TECHNICAL EDUCATION

2.1 The Government of Tamil Nadu under the able leadership of our **Hon'ble Chief Minister** has taken efforts to promote quality education in the field of Technical Education at Degree and Diploma level. At present, there are 10 Government Engineering Colleges, 3 Government-Aided Engineering Colleges, 17 Constituent Colleges of Anna University and 546 Self-Financing Engineering Colleges. Besides this, there are 41 Government Polytechnic Colleges, 34 Government-Aided Polytechnic Colleges, 3 Affiliated Polytechnic Colleges, 1 Film Institute, 1 Labour Institute (funded by other Departments of State/Central Government) and

15 Self-financing Hotel Management and Catering Technology Institutions and 414 Self-Financing Polytechnic Colleges and 54 Self Financing stand alone institutions offering MBA and MCA courses under the jurisdiction of the Directorate of Technical Education functioning in Tamil Nadu.

## **ACHIEVEMENTS AND INITIATIVES**

### **ESTABLISHMENT OF INDIAN INSTITUTE OF INFORMATION TECHNOLOGY (IIIT)**

2.2 IIIT Srirangam is an Autonomous Institute established under the orders of our **Hon'ble Chief Minister** with Government of India (MHRD), Government of Tamil Nadu and Industry Partners on a Not-for-profit Public Private Partnership (N-PPP) mode with the main objective

of catering to the skilled manpower requirement in the field of Information Technology and related areas.

2.3 Indian Institute of Information Technology, Srirangam has started functioning from the academic year 2013-14 at Srirangam, Tiruchirappalli District with 3 PG courses (Computer Science Engineering, Software Engineering and Database System). Now, 3 UG courses (Electronics and Communication Engineering, Computer Science and Engineering and Information Technology) have been started from the academic year 2015-16 with 60 students in each course.

## **ESTABLISHMENT OF FOUR GOVERNMENT ENGINEERING COLLEGES**

- 2.4 Based on the announcement made by the **Hon'ble Chief Minister**, 4 Government Engineering Colleges at Bodinayakanur (Theni District), Chettikarai (Dharmapuri District), Sengipatti (Thanjavur District) and Srirangam (Tiruchirappalli District) were started during 2012-13 & 2013-14. The number of Government Engineering Colleges has been increased by more than 50% in a span of 4 years.
- 2.5 602 new posts were created for the above 4 Government Engineering Colleges under various categories viz., Teaching Faculty, Librarian,

Physical Director, Workshop and Technical Supporting staff, Administrative Staff and Basic Servant up to the academic year 2014-15.

2.6 A sum of Rs.15.17 crore was sanctioned to the above 4 Government Engineering Colleges for the purchase of Equipments, Computers, Furniture, Library Books and e-journals up to the academic year 2014-15 and the above items have been procured. During the academic year 2015-216, Rs.2.76 crore has been sanctioned.

2.7 A sum of Rs.216.22 crore was sanctioned for the construction of Buildings to the above 4 Government Engineering Colleges

up to the academic year 2014-15 and Administrative Building, Class Rooms, Workshops, Laboratories, Library, Seminar Hall, Hostel Building, Principal's Quarters etc., have been constructed in the first phase.

## **ESTABLISHMENT OF ELEVEN GOVERNMENT POLYTECHNIC COLLEGES**

2.8 As per the announcement made by the **Hon'ble Chief Minister** 11 Government Polytechnic Colleges have been started from the academic year 2013-14 at Srirangam (Tiruchirappalli District), Gandharvakottai (Pudukottai District), Sankarapuram (Villupuram District), Perunthurai (Erode



District), Ariyalur (Ariyalur District),  
Uthangarai (Krishnagiri District),  
Jollarpet (Vellore District), Andipatti  
(Theni District), Usilampatti  
(Madurai District), Chekkanurani  
(Madurai District) and Cheyyar  
(Tiruvannamalai District). The  
number of Government Polytechnic  
Colleges has been increased by  
more than 30% in a span of 4 years.

2.9 673 new posts for first year and 319  
for second year have been created  
under the various categories viz.,  
Teaching Faculty, Librarian, Physical  
Director, Workshop and Technical  
Supporting staff, Administrative staff  
and Basic servant for the above 11  
Polytechnic Colleges.

2.10 A sum of Rs.550 lakhs for the first year, Rs.2420 lakhs for second year and Rs.1260 lakhs for the third year have been sanctioned for the above 11 Polytechnic Colleges for the purchase of Equipments, Computers, Furniture, Library Books and e-journals.

2.11 A sum of Rs.172.17 crore was sanctioned for the construction of various buildings such as Administrative Building, Classrooms, Workshops, Laboratories, Library, Seminar Hall, Hostel Building for all the newly established 11 Government Polytechnic Colleges and construction work completed.

## **FREE TEXT BOOKS**

2.12 To motivate and help students of Technical Education, who come from the weaker sections of the society, free text books have been distributed to First year Diploma students in Government Polytechnic Colleges. During the academic year 2014-15, 13,121 students benefitted under this scheme and a sum of Rs.13,70,063 has been spent in this regard.

## **FINANCIAL ASSISTANCE TO ECONOMICALLY WEAKER STUDENTS (CHIEF MINISTER'S PUBLIC RELIEF FUND)**

2.13 The Financial Assistance of Rs.13,75,000/- has been given to 55 economically weaker students by

our **Hon'ble Chief Minister** under the Chief Minister's Public Relief Fund at the rate of Rs.25,000/- each to enable them to continue B.E./B.Tech Course during the years 2012-13 and 2013-14.

### **SCHEME OF DISTRIBUTION OF FREE OF COST LAPTOPS**

2.14 The Tamil Nadu Government has implemented the scheme of distribution of free of cost Laptops to the students studying in Government and Government aided Schools and Colleges in the State, facilitating them to acquire better computer skills. This scheme is being implemented through concerned departments.

2.15 16,678 free of cost Laptops were distributed to the students of 79 Government and Government Aided Polytechnic Colleges under the control of Directorate of Technical Education during 2013-14. In 2014-15, 10,574 free of cost Laptops have been distributed. So far, 1,56,980 free of cost Laptops have been distributed to students in Technical Education Department, under the innovative scheme introduced by the **Hon'ble Chief Minister.**

**WAIVER OF TUITION FEES AND  
ISSUE OF FREE BUS PASS TO THE  
GOVERNMENT POLYTECHNIC  
COLLEGE STUDENTS**

2.16 The schemes of waiver of tuition fees and issue of Free Bus Pass are continuously being implemented for

the students of Government Polytechnic Colleges.

## **ENGINEERING ADMISSION THROUGH SINGLE WINDOW COUNSELLING**

2.17 Admissions to Under Graduate courses in Engineering Colleges are done on the basis of marks scored by the students in class XII Board exams. 100% of seats in Government and Government Aided Engineering Colleges, 70% seats in Government Aided Engineering Colleges (Self Supporting Courses), 65% seats in Self Financing (Non-Minority) Institutions and 50% seats in Self Financing (Minority) Institutions are included under Single Window Counselling System of Tamil Nadu Engineering

Admissions, conducted by Anna University, Chennai.

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

2.18 TEQIP Phase-II, a Centrally Sponsored Scheme (CSS) was implemented from the year 2012-13 through Ministry of Human Resource Development and State Government. The Project cost is being shared between Central Government and State Government in the ratio of 75:25.

2.19 4 Government Engineering Colleges, 3 Government Aided Engineering Colleges, One Constituent College of Anna University in Bharathidasan Institute of Technology Campus,

Trichirappalli and Department of Computer Science and Engineering of Manonmaniam Sundaranar University, Tirunelveli have been selected for TEQIP – II from Tamil Nadu. Two Centres of Excellence (Alternative Energy and Environmental Studies) in Government College of Technology, Coimbatore have been selected under TEQIP-II.

2.20 A total Life time Allocation of Rs.114.80 crore will be required to implement the project in our State for the period from March 2012 to October 2016 for the above 9 TEQIP Phase-II Institutions and State Project Facilitation Unit (SPFU).



2.21 Since its inception, a sum of Rs.98.78 crore has been released. Out of this, Rs.74.089 crore has been released as 75% of Government of India share and Rs.24.697 crore has been released as 25% of State share.

### **FIRST GENERATION GRADUATE TUITION FEES CONCESSION**

2.22 Tuition fee concession is granted to First Generation Graduate students admitted in first year and lateral entry in Engineering Colleges in the State under Government Quota through Single Window Counseling from the academic year 2010-11 onwards.

2.23 For the year 2013-14, a sum of Rs.565.99 crore has been allotted

towards reimbursement of tuition fee to First Generation Graduates. A sum of Rs.547.87 crore has been spent and 2,87,021 students benefited for the year 2013-14.

2.24 For the year 2014-15, a sum of Rs.569.25 crore has been allotted towards reimbursement of tuition fee to First Generation Graduates. A sum of Rs.541.11 crore has been spent and 2,83,379 students benefitted.

### **FACILITIES EXTENDED TO SRI LANKAN TAMIL REFUGEES**

2.25 The Sri Lankan Tamil refugee students in Tamil Nadu have been permitted to participate in the counseling for admission to Lateral Entry in B.E./B.Tech. and Post

Graduate courses viz., MBA / MCA/ M.E./M.Tech from the academic year 2011-12.

2.26 Tuition fee concession granted to the First Generation Graduate students selected for professional courses through Single Window Counseling in Tamil Nadu, has been extended to the eligible Sri Lankan Tamil refugee students. During the academic year 2014-15, 17 students have benefitted.

## **OPEN SOURCE SOFTWARE TRAINING**

2.27 Under the dedicated leadership of our **Hon'ble Chief Minister**, efforts are being made to improve the proficiency of Polytechnic College students in open source software like JAVA, PHP, Linux etc., Open

source software training was introduced in 403 Polytechnic Colleges. Training was provided to faculty also from all these Polytechnic Colleges to ensure that the students utilize this opportunity to enhance their skills.

### **3. COLLEGIATE EDUCATION**

**3.1.** The Directorate of Collegiate Education was formed in the year 1965. Tamil Nadu enjoys the privilege of being one of the most developed States in the field of Higher Education.

**3.2.** Presently, 76 Government Arts and Science Colleges, 139 Government Aided Arts and Science Colleges, 448 Self financing Arts and Science Colleges, 3 Government Aided Physical Education Colleges, 8 Self financing Physical Education Colleges, 4 Government Aided Oriental Colleges, 2 Government Aided Schools of Social Work, 7 Government Colleges of Education, 14 Government Aided Colleges of Education, 651 Self financing Colleges

of Education and 37 University Constituent Colleges totalling 1389 colleges are functioning under the administrative control of the Directorate of Collegiate Education. New courses such as MCA/MBA/M.Sc.(I.T.) have been introduced in addition to the conventional courses which have been in existence for the past 4 decades. This will enhance the employability of the students studying in Arts and Science colleges.

### **ESTABLISHMENT OF 14 NEW GOVERNMENT COLLEGES AND TWO UNIVERSITY CONSTITUENT COLLEGES**

**3.3.** Under the accomplished leadership of **Hon'ble Chief Minister**, the Government has established 14 new Government Arts and Science Colleges at

Kangeyam (Tirupur District),  
Komarapalayam (Namakkal District),  
Karimangalam (for Women) (Dharmapuri District), Hosur (Krishnagiri District),  
Peravurani (Thanjavur District),  
Karambakkudi (Pudukottai District),  
Sivakasi (Virudhunagar District) Kadaladi,  
Thiruvadanaï and Mudhukulathur  
(Ramanathapuram District), Kovilpatti  
(Thoothukudi District), Uthiramerur  
(Kanchipuram District), Manalmedu  
(Nagappattinam District) Veppanthattai  
(Perambalur District) and 2 University  
Constituent Arts and Science Colleges (for  
Women) at Veppur (Perambalur District)  
(co-education), Thittakudi (Cuddalore  
District) during the academic year  
2013-14 and 2014-15.

## **NEW COURSES IN GOVERNMENT COLLEGES**

**3.4.** 101 new courses during 2011-12, 298 new courses during 2012-13, 397 new courses during 2013-14 and 163 new courses during 2015-16 have been sanctioned to Government Arts and Science Colleges along with the creation of 1,924 posts of Assistant Professors. The introduction of new courses along with creation of teaching posts has offered a wide range of opportunities to students while fulfilling the commitment of the Government to assure access, equity and excellence in Higher Education.



## **APPOINTMENT OF ASSISTANT PROFESSORS IN GOVERNMENT COLLEGES**

**3.5.** At present Teachers Recruitment Board has completed the recruitment of 1093 Assistant Professors in Government Arts and Science Colleges and Colleges of Education. Further, the Government has directed Teachers Recruitment Board to undertake recruitment to fill up another 1272 posts of Assistant Professors in Government Arts and Science Colleges and Colleges of Education for the academic year 2012-13 and 2013-14.

## **GUEST LECTURERS IN GOVERNMENT COLLEGES**

**3.6.** Shift system was introduced in Government Arts and Science Colleges and it is being continued every year. During the academic year 2014-15, the Government has sanctioned 1661 posts of Guest Lecturers under Shift II system. Government has also sanctioned 1623 posts of Guest Lecturers under shift I system during the academic year 2014-15 to fill up the existing vacancies in the post of Assistant Professors till these vacancies are filled through Teachers Recruitment Board. Further 60 posts of Guest Lecturers for the newly established 12 Government Arts and Science Colleges have also been sanctioned.

## **FREE EDUCATION**

**3.7.** Free Education was imparted to the students studying in Government Colleges upto P.G. level and in Government Aided Colleges upto U.G. level during the academic year 2014-15. 4,49,918 students have benefited.

## **FREE BUS PASS TO THE COLLEGE STUDENTS**

**3.8.** Free bus passes are issued to the students studying in Government Colleges. During the academic year 2014-15. 1,34,527 students have benefited.

## **DEVELOPMENT OF WOMEN**

**3.9.** To help the women students appearing for All India Civil Services Examination free coaching classes are

conducted at Queen Mary's College, Chennai and Sri Meenakshi Government College for Women, Madurai. A sum of Rs.10.00 lakhs has been earmarked for this scheme every year. In the financial year 2014-15, the Government has provided a sum of Rs.10.00 lakhs for this scheme.

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

**3.10.** The students studying in Government Arts and Science Colleges can also study a Certificate / Diploma course conducted with the help of University Grants Commission funding. This will enable the students to fare well in the job market. Further the students studying in Government Colleges can join

a Diploma or Short term Certificate Course of their choice in the nearby Polytechnics identified by the Government. In the academic year 2014-15, 7622 students have benefited.

## **JOB FAIR**

**3.11.** A Placement Cell has been established in the Directorate of Collegiate Education for the benefit of the students. Through this cell Job Fairs have been conducted in various Centres viz. Queen Mary's College, Chennai, Dr.Ambedkar Government Arts College, Vyasarpadi, Chennai, Government Arts College, Tiruvannamalai, Rajeswari Vedachalam Government Arts College, Chengalpattu, Government Arts College, Karur, Periyar Arts College, Cuddalore,

Government Arts College, Coimbatore, Chikkanna Government Arts College, Tirupur and Rani Anna Government College for women, Tirunelveli and it brought many leading companies to recruit students for various posts. A total number of **3971** students have benefited through these job fairs.

### **STIPEND FOR TAMIL MEDIUM STUDENTS**

**3.12.** For the upliftment of students studying in Tamil Medium, scheme of granting stipend was introduced in the year 1971-72. This stipend was granted at Rs.180/- per student till the academic year 1996-1997. The Government enhanced the amount to Rs.400/-. Every financial year a sum of Rs.135.00 lakhs is provided in the Budget Estimate for this

scheme. For the financial Year 2014-15, a sum of Rs 136.46 lakhs has been provided and 34,115 students have benefited in that academic year.

### **SPECIAL COACHING FOR SLOW LEARNERS**

**3.13.** The students belonging to SC/ST and MBC communities and studying in Government Colleges, particularly in rural areas, face some initial difficulties in English, Maths and Science Subjects. In order to make them fully conversant with these subjects, special coaching is given outside the class hours and also during weekends. They will be able to compete with other bright students and will also get good marks in their University examinations when they complete these remedial courses in the

respective subjects. During the year 2014-2015, the Government has sanctioned a sum of Rs.2.00 lakhs towards this scheme and a total number of 11,404 students have benefited through this scheme.

### **STIPEND TO RESEARCH (Ph.D)**

#### **SCHOLARS**

**3.14.** Under this scheme, stipend is provided to students undergoing research in various subjects in Government and Government Aided Colleges. A sum of Rs.36,000/ student / annum is being paid. In the financial year 2014-15 a sum of Rs.40.00 lakhs have been provided in Budget Estimate. Out of Rs.40.00 lakhs a sum of Rs.32.04 lakhs is paid to 89 research students.



## **Scholarship Scheme to the students of Adidravida / Tribal / Converted Christians in Self Financing Colleges**

**3.15.** Scholarship Scheme to the Students of Adi-Dravida / Tribal / Converted Christians in Self financing Arts, Science and Education Colleges is implemented. This scholarship scheme has been implemented by the Directorate of Collegiate Education during the year 2013-14.

As per the scheme, scholarship is paid by the Government to Self Financing Colleges on behalf of the students of Adi-Dravida / Tribal/Converted Christians studying in Self Financing Arts, Science and Education Colleges. The Government has sanctioned a sum of

Rs.86,28,70,000/-(Rupees Eighty Six crores, Twenty Eight Lakhs and seventy thousand only) during the year 2013- 14 and a sum of Rs.86,26,62,450 (Rupees Eighty six crores, twenty six lakhs, sixty two thousand and four hundred and fifty only) has been paid towards scholarship to the 33,330 students.

### **INFRASTRUCTURE IMPROVEMENT**

**3.16.** The Government has accorded administrative sanction for Rs.100.00 crore for providing infrastructure facilities and basic amenities in 62 Government Arts & Science Colleges, 7 Colleges of Education and 24 University Constituent Colleges during the year 2012-13. To fulfill the above commitment, the Government has supplied tables and chairs at a cost of Rs.44,49,76,745/- to

the students of 69 Government Colleges and 24 University Constituent Colleges through Tamil Nadu Small Industries Corporation (TANSI). The Government has also sanctioned a sum of Rs.26,80,45,000/- for Improvements of Infrastructure and Basic Amenities in Government Arts and Science Colleges, Government Colleges of Education and University Constituent Arts and Science Colleges.

### **CONSTRUCTION OF ADDITIONAL BUILDINGS TO GOVERNMENT ARTS COLLEGE, PARAMAKUDI DURING 2013-2014**

**3.17** The Government has sanctioned a sum of Rs.4.67 crore for the construction of additional class rooms for 8 newly started courses, laboratory buildings, HOD rooms, staff room and

general library in Government Arts College, Paramakudi. The construction work is nearing completion.

### **CONSTRUCTION OF ADDITIONAL CLASS ROOMS/BLOCKS TO GOVERNMENT ARTS COLLEGE**

**3.18** The Government has sanctioned a sum of Rs.4.49 crore for the construction of 12 additional classrooms, laboratory buildings, gents / ladies toilets in Government Arts College, Karur. These works have been completed and the buildings are being used.

### **CONSTRUCTION OF ADDITIONAL CLASS ROOMS/HOSTELS/LABORATORIES TO GOVERNMENT ARTS COLLEGES UNDER PART II SCHEMES 2013-14 AND 2014-15**

**3.19** The Government has sanctioned a sum of Rs.100.00 lakhs for Victoria Hostel Building for Men in Government Arts College for Men (Autonomous), Kumbakonam under Part-II Scheme for the year 2013-14. Likewise Government has also sanctioned a sum of Rs.70.00 lakhs for the construction of 7 additional classrooms in Government Arts College, Chidambaram. The construction work has been completed and the buildings are being used.

**3.20.** The Government of Tamil Nadu, under Part-II Scheme for the year 2014-15 have sanctioned the construction of 15 additional classrooms in Rajeswari Vedhachalam Government Arts College,

Chengalpet at a cost of Rs.170.50 lakhs and construction of Nutrition Lab in Muthurangam Government Arts College (Autonomous), Vellore at a cost of Rs.110.00 lakhs.

**CONSTRUCTION OF OWN BUILDING / ESTABLISHMENT OF NEW OFFICES FOR REGIONAL OFFICES OF COLLEGIATE EDUCATION**

**3.21** The Government has sanctioned a sum of Rs.4.59 crore for construction of own building for Regional Office of Collegiate Education at Trichy, Madurai and Tirunelveli. The Government have also established office of the Regional Joint Director of Collegiate Education at Dharmapuri and Thanjavur District.

## **SPORTS**

**3.22.** 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 events. Students from Government / Aided / Self Financing Colleges have excelled in Fencing, Kabaddi, Volleyball, Hurdles, Relay Race, Chess, Hockey, Weight lifting, Power lifting, Running, Swimming and Hand Ball events at All India Inter University, University, State, National and International levels.

## **NATIONAL SERVICE SCHEME (N.S.S)**

**3.23.** National Service Scheme has been implemented in Tamil Nadu since its inception i.e. September, 1969. At

present, National Service Scheme is functioning with the strength of 3,79,300 student volunteers in Tamilnadu in various educational institutions. The expenditure for the Scheme is shared by both Central and State Governments in the ratio 7 : 5. The Scheme is successfully implemented in Universities, Colleges, Technical Institutions, ITIs, Teacher Training Schools and in Higher Secondary Schools.



## **4. UNIVERSITIES**

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

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

## **4.1 ANNA UNIVERSITY**

**4.1.1** Anna University was established on 4<sup>th</sup> September, 1978 as a unitary type University by integrating 4 well known technical institutions in the city of Madras (now Chennai) namely, College of Engineering, Guindy (CEG-1794); Alagappa College of Technology (ACT-1944); Madras Institute of Technology (MIT-1949); and School of Architecture and Planning (SAP-1957).

During the year 2001, Anna University was converted into affiliating type of University by bringing all Engineering Colleges in the State of Tamil Nadu under it

and it was reconverted to unitary type in 2010. At present, from 1<sup>st</sup> August, 2012, it is again converted as an affiliating type of University, the largest technological university, by bringing all engineering colleges under one umbrella to ensure uniform quality in engineering education in Tamil Nadu as per noble vision of **Hon'ble Chief Minister**. Presently, Anna University has 13 Constituent Colleges, 4 Regional Offices and 622 affiliated colleges. Anna University offers 29 UG and 79 PG Programmes with about 16000 students on roll in the University Departments, while 40 UG and 57 PG programmes are offered in

Affiliated Institutions with about 8 lakhs students on roll. Anna University takes pride in having 11768 Ph.D. and 176 M.S. (By Research) scholars on roll. About 35% of the total students on roll are girls.

Anna University has been accredited for 5 years with 'A' grade by NAAC in September 2014. The current 'h' index of the University is 86 for the period from 1999-2014. As per the QS (Quacquarelli Symonds) Rankings 2014, Anna University is one of the 20 Indian Universities within top 200 Universities of BRICS countries and also has the pride of being the

only University in India to launch ANUSAT microsatellite in collaboration with ISRO and it was in orbit till 2012.

#### 4.1.2 **Objectives of the University**

- To constantly 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 fulfil 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.

#### **4.1.3 Important Achievement during the past 4 years**

- In consonance with the **Hon'ble Chief Minister's** vision, the University has revised the curricula and syllabi for the programmes offered at University Departments from 2015-16 with Choice Based Credit System (CBCS). For affiliated engineering Colleges the curricula and syllabi were revised during 2013-14.

- Anna University successfully conducts UG & PG admissions under Single Window Counseling every year covering about 1.85 lakhs candidates.
- 80 Smart Classrooms at a cost of Rs.2.10 crore have been established in the University.
- 1010 Research Scholars received their Ph.D degree in 35<sup>th</sup> Convocation held in 2014. This is an “all time high” number of Ph.D. awardees in the convocation for Anna University and the highest number of Ph.D. awardees ever achieved by any other Technical University in India.

- Under the students exchange programme, 41 international students and 160 students of Anna University have studied in Anna University and foreign universities respectively during the period from 2011-12 to 2014-15.
- The Anna University has signed 33 MOUs with foreign Universities/Institutions and 20 MOUs with Institutions/Industries at National Level during the period from 2011-12 to 2014-15.
- 224 sponsored research projects for a value of Rs.64 crore, 2543 consultancy services for a value of Rs.67.35 crore and 5582 testing works for a value of Rs.2 crore were carried out during the



period from 2011-12 to 2014-15.

- During 2013-14, this University instituted Active Researcher Award, Active Consultant Award, Best Innovative Award, Technology Transfer Award to promote research and consultancy among faculty members.
- During 2011-15, 2576 papers have been published in the International Journals, 225 papers have been published in National Journals and 99 Books have been published.
- National Hub for Healthcare Instrumentation Development has been established with financial support from DST in 2011 with a grant of Rs. 12.4 crore.

- Centre of Excellence in Biomedical Applications was established in 2013 with Rs.4 Crore grant sanctioned by MHRD.
- University Innovation Cluster was established with the financial support from Biotechnology Industry Research and Assistance Council (BIRAC) and National Innovation Council (NInC) in 2014 with a grant of Rs. 2.30 crore.
- Department of Biotechnology, Ministry of Science and Technology has sanctioned Rs.10.44 crore for the project entitled "DBT-Anna University Interdisciplinary Life Science Programme for Advance

Research and Education for 5 years from 2014-19.

- Currently there are 20 SAP (Special Assistance Programme) recognized Departments receiving long term grant of Rs.15.94 crore from UGC
- Department of Science and Technology (DST) has recognized 19 departments under FIST scheme to receive infrastructural grants amounting to Rs.16.16 crore.
- DST supports the University under PURSE Scheme. DST has sanctioned Rs. 35.64 crore in phase II starting from 2014 and released Rs.7 crore in October 2014.

- Based on the Tamil Nadu Solar Energy Policy 2012, the University has installed 20 kW Roof-top Off-Grid PV system and 4 kW solar PV water pumping system.
- During 2012, Anna University Library has received IEEE, ASME, ASCE and Springer awards for the highest number of e-journals usage.
- The University has internet bandwidth of 360 Mbps under National Knowledge Network, the University is provided with 1 Gbps band each at Main Campus and MIT Campus.

- The entire University campus is connected with WiFi.
- 6968 students of University departments of Anna University and 5015 students at State Level have got placements in companies during the period from 2011-12 to 2014-15.
- 401 students have undergone internship during the period from 2011-12 to 2014-15.
- The AU-KBC centre has automated and networked all 32 District Central Libraries and Connemara Library in Tamil Nadu using the Free Open Software Solutions (FOSS) product “Koha” for the Department of Public Library, Tamil Nadu.

- In November 2012, Anna University received US patent for “Chained Checksum Error Correction Mechanism to improve Transmission Control Protocol (TCP) performance over network with wireless links”.
- Nearly 18,369 students and 1,228 staff members and their families have benefited through Medical Insurance Scheme.
- During 2014-15, 38 sponsored research projects are carried out by the faculty with a total value of Rs.16.54 crore and earned Rs.16.23 crore through 545 consultancy services and Rs.35.00 lakhs through 957 testing work.
- During the year 2014-15, the faculty of various University

Colleges of Engineering has undertaken research projects to the tune of Rs.870.00 lakhs.

- Centre for Faculty Development, Anna University has organized a 10 day training programme to train the faculty to conduct Bridge Course in Mathematics, Physics and English. 2,000 faculty members from 500 Engineering colleges in Tamil Nadu participated.
- The University has earmarked Rs.193.57crore for 2014-15 towards creation of infrastructure facilities in 13 constituent colleges and 3 regional offices.
- A sum of Rs.104.50 crore has been earmarked towards the creation / upgradation of infrastructure facilities in the Main and MIT Campuses during the year 2014-15.

## **4.1 TAMIL NADU TEACHERS EDUCATION UNIVERSITY**

**4.2.1** The Tamil Nadu Teachers Education University, the first of its kind in our country for promoting excellence in Teacher Education, was established in the year 2008. Now, there are 689 colleges of education, out of which 7 Government, 14 Government Aided, 2 Government of India Aided and 666 Self-financing colleges that are affiliated to the University. With 6 Departments of Study and Research in the field of Education, the University is rapidly growing with consistent academic advancement.



## 4.2.2 Objectives

- The objectives of the University are to monitor the establishment and functioning of colleges of education in accordance with the norms and standards prescribed by National Council for Teacher Education and Government of Tamil Nadu. This University also organizes seminars, workshops, symposia for teacher trainees on emerging trends in Teacher Education.

## 4.2.3 Achievements

- **Hon'ble Chief Minister** has allotted 10 acres of land in Karapakkam Village, Sholinganallur Taluk, Kancheepuram District for the

construction of various academic, administrative, hostel and library buildings for the University at an estimated cost of Rs.95.00 crore and the first phase work is being executed by Public Works Department at a cost of Rs.38.35 crores.

- Under the aegis of Government of India, Bharat Sanchar Nigam Limited installed one GB connectivity to the university and it will be extended to all the colleges of education affiliated to this university.
- The University has granted recognition to 13 colleges of education as Research Centres for offering M.Phil and Ph.D Degree

Programmes. Subsequently, during 2014-15 recognition was granted to 4 more colleges to offer M.Phil Degree programme. Common Entrance Test and interview was conducted for the first time for admission to Ph.D Degree Programme in the affiliated colleges of education as well as in the University departments for the January 2014 session and the system is being continued.

- The University established 6 departments of Study and Research with teaching faculty ratio of one Professor, two Associate Professors and four Assistant Professors for each departments of study and research in order to become eligible

for UGC's 12(B) status. Accordingly, the University would initiate action to send proposals to the UGC for grant of 12(B) status.

#### **4.2.4 Activities/Schemes undertaken during the year 2014-15 :**

- The University has organized a workshop in collaboration with NCTE to give orientation on the National Council for Teacher Education (Regulations, Norms and Procedures) Regulation 2014.
- The University has convened Boards of Studies for UG, PG and Research on 21.01.2015 to discuss about the new pattern of courses introduced by the NCTE like 2-year B.Ed. and M.Ed. Degree programmes; Open

and Distance Learning System leading to Bachelor of Education (B.Ed.); 4-year Integrated Programme leading to B.A.,B.Ed./B.Sc.,B.Ed. degrees; Bachelor of Education programme (Part-time); 3-year integrated B.Ed. and M.Ed. programmes in the new Regulations of NCTE 2014.

- The University has conducted an orientation programme for training and skill development of teaching and non-teaching staff. Accordingly, as requested by the University, the Microsoft Corporation India Pvt. Ltd., have designed a Saksham-Faculty Empowerment Programme to provide Orientation programme

under this caption for the benefit of the Faculties, Research Scholars and Staff Members of the University.

- An Anti-Ragging Committee has been put in place under the Chairmanship of Vice-Chancellor to deal with the cases of ragging in the University campus.
- The University has conducted Training cum Workshop on Test Designing and Item Writing under the aegis of National Testing Service – India, Central Institute of Indian Languages, Mysore for the benefit of the faculty members of the University and Government & Government Aided Colleges of Education in the State of Tamil Nadu

through the Department of Educational Planning and Administration.

- The University organized the third International Conference on the theme “Knowledge Exchange Path Collaboration among Universities, Industries, Educational Institutions and Society: Bridging the Outcome-Impact Gap” from 20.04.2015 to 23.04.2015 at the New College, Chennai.

#### **4.2.5 Activities/Schemes to be undertaken during the year 2015-16**

- a. Initiation of work under new projects:** The University will be initiating research work for the new

projects at an estimated cost of Rs.30 lakhs for faculty development.

- b. On-line International Journal:** The University will be launching an on-line International journal on Education innovations and practices for which all preparations have been completed.



## **4.3 TAMIL NADU OPEN UNIVERSITY**

**4.3.1** The Tamil Nadu Open University (TNOU) was established by Tamil Nadu State Legislature in 2002 and it is the 10<sup>th</sup> State Open University in India. 135 Academic programmes are offered by Tamil Nadu Open University at Certificate, Diploma, Degree and Master Degree levels.

Tamil Nadu Open University operates through 13 schools of Study, 5 Operating Divisions and one Electronic Media Production and Research Centre.

Tamil Nadu Open University zonal centres and Constituent Community Colleges are functioning at Madurai, Coimbatore, Trichy and Dharmapuri. A total number of 657 Learner Centres

across Tamil Nadu are providing services to Tamil Nadu Open University students.

#### **4.3.2 ACHIEVEMENTS**

- Signed MoU with National Skill Development Corporation, New Delhi to align the 18 Curricula of TNOU Vocational Education Programmes with National Occupational Standards (NOS) and Qualification Pack (QP).
- Permission obtained from the Government for the TNOU students of B.Ed (Special Education) to have teaching practice sessions in Government schools.
- Foreign Languages Lab, Smart classrooms with Video Conferencing facility, Curriculum Development Cell

and Entrepreneur and Skill Development Centre are established under the direction of the **Hon'ble Chief Minister** to facilitate better learning.

- Imparting Vocational Education programmes to the jail inmates on tuition fee waiver basis.
- Imparted entrepreneurial training to 80 Community College teachers and 203 students through the Entrepreneur and Skill Development Centre.
- A total of 17 experts from Austria, Australia, Canada, Ethiopia, Germany, Malaysia, Poland, Singapore and SriLanka delivered lectures and participated in the revision of curricula under the auspices of Curriculum

Development Cell and under the Foreign Experts visits Initiative. A total of 976 faculty students from 390 programmes have benefited from the University.

- Memorandum of Understanding (MoU) with Rehabilitation Council of India (RCI), New Delhi was signed to conduct Special Education Programme through distance mode.

#### **4.3.3 ACTIVITIES/SCHEMES UNDERTAKEN IN 2014-15**

- Constituent Community Colleges have been established at Madurai, Trichy, Coimbatore and Dharmapuri with provision of necessary

infrastructure facilities viz., computers, sewing machines etc.

- Establishment of 40 new Community Colleges housed in various NGOs and Industries to offer TNOU Vocational Diploma Programmes.
- Signed MoU with Tamil Nadu Agricultural University, Coimbatore to offer its 16 Job Oriented Certificate Programmes all over the State of Tamil Nadu through Community Colleges.
- Obtained International Standard Book Number (ISBN) for 710 course materials of TNOU.

- Rehabilitation Council of India approved TNOU to conduct 1. M.Ed in Special Education. 2. Post Graduate Professional Certificate in Special Education 3. Post Graduate Professional Diploma in Special Education 4. Foundation Course on Education of Children with Disabilities 5. Foundation Course on Education of Children with Learning Difficulties.
- Commissioning of verification of genuineness of the Certificates issued by TNOU through Global Document Verification Software at free of cost.

#### **4.3.4 Proposed Activities/Schemes during 2015-16**

- To conduct three day National Conference in collaboration with Indian Distance Educational Association (IDEA) and 3 day National Seminar in Mathematics by School of Science.
- To construct Zonal Centre buildings at Dharmapuri, Coimbatore, Madurai, Chennai and Trichy (Srirangam).
- To develop digital content to supplement printed materials.

- To strengthen Online Registration for student admission.
- To conduct Workshop in collaboration with the Central Institute of Indian Languages, Mysore.
- To introduce B.Sc in Zoology, Botany, Chemistry and Physics through Open and Distance Learning.



## **4.4 UNIVERSITY OF MADRAS**

**4.4.1** University of Madras was established on September 5, 1857. Initially it was started as an examining body and later under the Madras University Act of 1923, research and teaching functions were consolidated. At present, the University has six campuses in Chennai - Chepauk, Marina, Guindy, Taramani, Chetpet and Maduravoyal (Field Lab). Consequent to Amendments to Madras University Act and formation of separate Universities, the University of Madras is leading in imparting Arts and Science education in higher education, with 73 teaching and research departments and 134 affiliated colleges including 48 affiliated research

institutions. The University of Madras has continuously received high accreditation from the National Assessment and Accreditation Council (NAAC) and is recognized with 'Potential for Excellence' by the University Grants Commission. The University of Madras was the first to introduce the concept of autonomous colleges within the University system enabling the Autonomous Colleges to design their own curriculum, syllabus and conduct of examinations. There are 21 autonomous colleges affiliated to the University of Madras. UGC has recognized some of the colleges as the Colleges with Potential for Excellence. Established in 1981, the Institute of Distance Education offers 27 UG courses, 21 PG courses, 18 professional courses and 31 other

courses. The Institute of Distance Education also offers M.Sc. (IT) and B.B.A. courses to the African students, through e-Network Pan African Project. The University of Madras hosts a number of national and international programmes and has attracted funding from reputed agencies for research.

#### **4.4.2 ACHIEVEMENTS**

- In accordance to the Vision of our **Hon'ble Chief Minister** the University of Madras has established 2 Constituent Arts and Science Colleges at Nemili and Thiruvottiyur.
- The University has established 5 new departments in Women Studies, Social Work, Networking Systems and Information

Technology, Material Science and Bio-Informatics.

- The University has augmented its manpower with the appointment of 87 Assistant Professors, 18 Professors, 48 administrative staff, and 11 library assistants.
- The University of Madras has implemented the schemes viz. establishment of Smart classrooms with Video Conference facility, Foreign Language Laboratories, Entrepreneurship-Cum-Skill Development Centre, inviting renowned Professors from Foreign Universities and Curriculum Development Cell.
- The University has established the Centre for Multimodal Material

Production for Differently Abled, Swami Vivekananda Centre for Higher Research and Education, PG Centre with High Tech Laboratory, Centre for Technical Writing and Academic Writing, University Business Collaboration Centre, and Incubation and Technology Transfer Centre.

- The University has also established 3 new Centres of research on Cyber Forensics & Information Security, Neurotoxicity Research, and Prison & Rehabilitation.
- The University is the only university amongst public funded universities to have both Technology Business Incubator and Techno Entrepreneur Promotion Outreach Centres.

- The University has received Rs.31.40 crore from the Department of Science and Technology under PURSE programme to the Science Departments and Rs.5.016 crore from the Department of Bio-Technology.
- The University is holding 5 patents and has applied for 14 patents.
- The University has implemented many student friendly schemes viz. Single Window Admission in Institute of Distance Education (IDE), Madras University Free Education Scheme both at University and Colleges, Students Insurance Scheme, Technical Education and e-learning platform under Tele-education, Talking

Library for Visually Impaired, Sports facilities, student amenities, WI-FI and Internet facilities and various fee concessions.

- The University has been implementing a novel 'Earn while you Learn' scheme for its students for the last 10 years.

#### **4.4.3 ACTIVITIES/SCHEMES UNDERTAKEN DURING THE 2014-2015:**

The University has undertaken digitization of Ph.D Thesis, e-Governance of Student Registration and Examinations, Online Payments, Online application for the Institute of Distance Education (IDE) and Master Stock Entry.

The University of Madras has also established the Sangappalagai for Tamil Development on the occasion of 200<sup>th</sup> Birth Anniversary of Dr.Robert Caldwell, a Tamil Scholar.

The University has established 7 Centres for research under UPE scheme viz. (1) Centre for Studies in Comparative Religions, (2) Centre for Rural Development and Strategic Studies, (3) Centre for Terrorism, Internal Security and Victims of Crimes, (4) Centre for Cognitive and Behavioural Research, (5) Psycho & Music Therapy Project, (6) Laboratory for Traditional Testing & Standardisation, and (7) Multilingual Dictionary Project.



The University Centre for International Relations has admitted 75 overseas students for various courses.

The University has installed solar powered street lights of 1 KV for the women's hostel in Chepauk campus.

Under the University with Potential for Excellence (UPE) Phase II Programme, projects on 'Bio-medical Research and New Materials Research' are in progress as part of the holistic development area.

The University Digitization of Library programme is being implemented.

#### **4.4.4 ACTIVITIES/SCHEMES TO BE UNDERTAKEN IN 2015-16**

The University proposes to implement paperless working by automation of administration with e-Governance.

## **4.5 MADURAI KAMARAJ UNIVERSITY**

**4.5.1.** Established in the year 1965, Madurai Kamaraj University is recognized as a University with potential for excellence by the University Grants Commission of India. It is functioning with 77 departments. This University governs 10 aided colleges, 3 Govt. Colleges, 24 autonomous Colleges, 4 Madurai Kamaraj University Evening Colleges, 1 Madurai Kamaraj University College, 6 Constituent Colleges and 36 Self-financing Colleges and 9 approved institutions. Besides, Madurai Kamaraj University has a Directorate of Distance Education with the enrolment of about 1.20 lakh students. Madurai Kamaraj University offers 41 Post Graduate, 35 M.Phil., and 17

Diploma/P.G. Diploma/ Certificate courses. Currently 66 UG courses and 45 PG courses are offered in the affiliated colleges.

#### **4.5.2 Achievements**

- Madurai Kamaraj University has been accredited by NAAC continuously for 15 years and now in 2014-15 also it is re-accredited with 'A' grade.
- Internal Quality Assurance Cell (IQAC) is functioning as an integral and independent component of the University. The IQAC conducts academic audit for all the Departments to improve the quality of education as a continuous process.
- The Central Instrumentation Centre: This Centre is functioning with state-of-art research equipments including High Resolution Transmission Electron

Microscope (HR-TEM), Scanning Electron Microscope (SEM), Atomic Force Microscope (AFM), Ground Penetrating Radar system, etc. The centre also comprises a world class preview theatre, conference hall, smart class room, board room, student amenity centre and MKU major research programme offices from 2014-15 onwards. This Centre is useful not only to the University students but also to the students of all our affiliated colleges. Approximately 2000 students benefit every year.

- Madurai Kamaraj University has joined with the innovative group of institutions with the course on Film and Electronic Media Studies.

- The Hotel Management Laboratories for the students of both the Centre for Tourism and Hotel Management and the Directorate of Distance Education got established with the facilities such as Basic Training Kitchen, Quantity Training Kitchen, Training Restaurant, Bakery and Confectionary and Model Guest Room. It is estimated that approximately 3000 students benefit every year from this innovative endeavor.
- e-learning portal : The Directorate of Distance Education (DDE) has launched the e-learning portal, a boundary-less, anytime anywhere access facility for academic and administrative services for the enrolled students and approximately 1,00,000

students benefit from this scheme every year.

- Research Projects: At present, 125 research projects with an outlay of Rs.9 crore have been undertaken by the faculty members of Madurai Kamaraj University in 2014-2015.
- UGC-Academic Staff College: Academic Staff College of MKU is functioning to orient and refresh the teachers involved in the higher education system. In total, 17 programmes have been organized in 2014-15 and 411 teachers benefited. With the support of UGC – XII plan and other grants of the University, a total of 55 workshops/ seminars / conferences in various disciplines have been conducted.

- To produce more women scholars, an exclusive **Ladies hostel namely "Mullai"** has been constructed at a cost of Rs.62 lakhs with the UGC grant. A 24 X 7 Wi-Fi internet connectivity is provided to all the PG/Research students in the Madurai Kamaraj University hostels from the academic year 2014-15.

#### **4.5.3 Activities proposed for the current year 2015 – 2016**

- To encourage the Non-NET Ph.D. scholars, a sum of Rs.10 crore has been sanctioned as a part of XII Five Year Plan General Development grant of University Grants Commission. Madurai Kamaraj University supports 125 Ph.D. students under the scheme.

- To enhance and give an impetus to Sports, Track and Field Facilities of the University, an open air stadium with a capacity of 1000 spectators has been established at the cost of Rs. 90 lakhs. Consequently University Grants Commission has also sanctioned Rs.2.40 crore in the academic year 2015-16 for the development of infrastructure for Physical Education Department of Madurai Kamaraj University.
- The foreign language lab, smart class room, Swami Vivekananda Advanced Research & Education Centre, Incubation & Technology Transfer Centre, University Business Collaboration Centre and Entrepreneurship-cum-skill



Development Centre established are proposed to develop various skills among the students in different dimensions.

- The Green campus programme and the Clean campus programme of Madurai Kamaraj University serve as a model for the other places and efforts would be taken to sustain the systems.

## **4.6 BHARATHIAR UNIVERSITY**

**4.6.1** Bharathiar University was established in February 1982 under the provision of the Bharathiar University Act 1981. The University, re-accredited by National Assessment and Accreditation Council with 'A' status, has 37 teaching and research departments grouped under 13 Schools. The University has 112 affiliated colleges, which include 7 Government, 3 Constituent, 16 Government Aided and 86 Self Financing Colleges and 1 PG Centre at Erode. 2,58,713 students are currently studying in the University departments, affiliated colleges and School of Distance Education. The University Grants Commission (UGC) supports 7

departments under the Special Assistance Programme and Department of Science and Technology (DST) supports 8 departments under the Fund for Infrastructure in Science and Technology programme. The Department of Physics was identified by the State Government as Centre for Excellence for creating state-of-art advanced research laboratories to enhance the existing potential and to offer high quality research programs.

#### **4.6.2 Achievements**

- Defence Research and Development Organization (DRDO) sanctioned 16 research projects under phase II, to the University faculty members through BU- Defence Research and

Development Organization (DRDO) center for Life Sciences with a support of Rs.7.53 crore.

- Under the Promotion of University Research and Scientific Excellence (PURSE) program of DST, Rs.9 crore was sanctioned.
- Projects worth Rs.3.87 crore got sanctioned to the faculty members through UGC-MRP scheme. 3 DST Fast track and 2 DST women scientists' schemes got sanctioned.
- Students of Bharathiar University, were awarded coveted fellowships under various schemes such as UGC- Basic Science research (BSR) (41 fellowships), DST-PURSE (23 fellowships), DST-Innovation in Science Pursuit for Inspired

Research (INSPIRE) (21 fellowships), University Research Fellowships (URF) and other (525 fellowships).

- 35 students in regular stream and 250 students in the distance mode were admitted under National Council for Teacher Education (NCTE) approved M.Ed., program for the first time.

#### **4.6.3 Activities/Schemes undertaken during 2014-2015**

- Bharathiar Nano Innovation Centre (B-NIC) has been instituted in the Department of Nano Science and Technology to cater to the needs of the nearby industries, institutes and students.

- On-line portal for the payment of various fees has been introduced for the easy access of students.
- Ph.D., thesis evaluation status has been made online for the benefit of the students.
- The student amenity center has been created.
- In Bharathiar University 4 hostels for girls, 4 hostels for boys and 1 International students hostel were established with an intake of 1110 girl students, 850 boy students and 9 international students.
- A control room was created with web access to various exam centers to monitor the NET examination, coordinated by the University.

- UGC has extended a support of Rs.1.83 crore to B.Voc. studies to the Department of Extension and Career Guidance.
- A common computing center with 4 servers and 200 computers has been established to cater to the needs of the students.
- To enable all students to participate in sports activities, sports complexes have been established at every hostel premises.
- Research in Indigenous and endangered languages (Irula) in Western Ghats is being carried out with the support of Rs.1.85 crore by UGC.
- To facilitate industry based curriculum a memorandum of

understanding has been signed with Infosys.

- “Learn Bharathi” portal has been instituted in collaboration with Tata Consultancy Services.
- A course on Human Genetics and Molecular Biology has been started and students were admitted.
- A course in Library and Information Science has been re-started and students have been admitted.

#### **4.6.4 Activities/Schemes proposed for 2015-2016**

- To set up a technology based community effort (Learn Tamil Nadu) to provide equal access and quality of Higher Education to all learners with cost effective means.



- To establish a Resource Centre on “Data Mining and Image processing” to help the budding research scholars, who aspire to become scientists in interdisciplinary areas in which around 500 students will benefit.
- To create a Learning Network for knowledge transfer among all the stakeholders of Affiliated Colleges and University Campus to enhance and utilize online learning. This scheme, will benefit nearly 75,000 students.
- To establish a state-of-art “Open Source Learning and Online Assessment” to improve the awareness among students through

learning even outside the classrooms.

- To establish a “Centre for Biomedical Applications” that will carry out research on Bio-prospecting Western Ghats Flora for Anticancer & Antiviral.
- To introduce a course on Life Skills to all branches of students to make them ready to face the competitive world.
- To initiate a “Centre for Financial Studies” to develop the rural students to enrich their knowledge with a financial assistance of Rs.3 lakhs.

## **4.7 BHARATHIDASAN UNIVERSITY**

**4.7.1** Bharathidasan University, named after the great revolutionary Tamil Poet, Bharathidasan, was established in the year 1982. The University is re-accredited with "A" Grade. The University has two campuses the main campus at Palkalaiperur and City campus at Kajamalai. Besides these two campuses, the University has the Bharathidasan Institute of Management (BIM) located at Tiruverumbur. 138 colleges have been affiliated to Bharathidasan University spread over eight districts viz., Tiruchirappalli, Pudukkottai, Karur, Perambalur, Ariyalur, Thanjavur, Tiruvarur and Nagapattinam. The

University has 4 model colleges and 6 constituent colleges.

#### **4.7.2 Important Achievements of the University**

- The Centre for Differently Abled Persons is offering PG Diploma, Diploma and Certificate Programmes on different disciplines with the collaboration of various institutions. 237 students have benefited from the scheme.
- The Centre for Knowledge Repository's Multimedia portal has been strengthened with many new videos lectures of National Programme on Technology Enhanced Learning (NPTEL – Phase II).

- SAKSHAM Programmes for 30 non-IT Teaching Staff members to acquire basic awareness in the field of ICT and utilizing the latest technologies for the benefit of the students were conducted.
- Action has been initiated to set up 1 MW on-grid Solar Power Plant for the Main Campus and 200 KWp roof-top Solar power plant for the Khajamalai Campus. Work has commenced to establish 500 KWp ground mounted grid interactive solar power plant and 100 KWp roof-top solar power plant in Khajamalai Campus.
- On-line Fee Payment System has been put in place which is useful for

the student community to make hassle free fee payment.

- **In Commemoration of the 67<sup>th</sup> Birthday of Hon'ble Puratchi Thalaivi Amma, Green Campus Programme was initiated.**
- Prestigious awards and prizes have been won by 65 faculty members.
- About 3594 research papers have been published in reputed journals. Out of 28 patents being filed, 12 patents were awarded to the faculty members.
- The H-index of the University is 66 by Scopus.
- Thirteen Departments were supported under UGC Special Assistance Programmes (UGC SAP).

- Thirty five faculty members have international collaboration with 22 countries through research exchange visits, projects and publications.
- The total outlay for 304 research projects sponsored by UGC, CSIR, DST, DBT, DRDO, ICSSR, ICMR, etc., is around Rs.8298 lakhs.
- During the past 4 years, the University is provided with special grant by UGC under XI Plan to the tune of Rs.10 crore and under XII Plan Rs.5.34 crore to specifically upgrade the infrastructure of University Departments including class rooms, seminar halls and laboratories. Also 12 new buildings including an auditorium, hostel and

buildings to house the departments and facilities have been constructed.

#### **4.7.3 Future Plans**

- To fulfill the vision of **Hon'ble Puratchi Thalaivi AMMA**, 1.25 lakhs saplings (1000/ college) are kept ready for mass plantation.
- Project is on the pipeline to generate 2 MW from solar energy as an alternate power source.
- By pooling the sophisticated research instruments from various departments of the University, Central Instrumentation facility will be created for the benefit of the faculty members and students of all University departments and affiliated colleges of the University.



- Solid Waste Management was proposed, keeping in mind the “Swachh Bharat Abhiyan” scheme, to create solid waste management by collecting perishable and renewable wastes of the university campus which will be processed for bio-methenation, bio-gas and power generation.

## **4.8 ALAGAPPA UNIVERSITY**

**4.8.1** Alagappa University is a State University established in 1985, recognized by the University Grants Commission and re-accredited with 'A' Grade by NAAC. Alagappa University has 11 Schools of Learning, comprising 24 Departments, 7 Centres and 2 University Colleges of Education and Physical Education. Besides, it has 31 Affiliated Colleges, 5 Evening Colleges and one new Constituent Arts and Science College spread over the two Districts of Ramanathapuram and Sivaganga. Around 1,20,000 students are pursuing their higher education through different modes. All programs offered in the University departments and affiliated colleges are

under Choice Based Credit System (CBCS) with Continuous Internal Assessment (CIA) to ensure better education.

- The University has six UGC- SAP (Special Assistance Programme) Departments and three DST- FIST (Department of Science and Technology – Fund for Improvement of Science and Technology) Departments.
- The University has the physical infrastructure of about 1,00,000 sq. mt. including two auditorium at 2550 sq. mt. each and eight storied Science Block of 14140 sq. mt.
- Student Hostel buildings and amenities worth of Rs.478.32 lakhs under UGC XI Plan Grants and the

University fund were completed during the year 2013-14.

#### **4.8.2. DISTANCE EDUCATION AND COLLABORATIVE PROGRAMMES**

The Directorate of Distance Education in Alagappa University is taking educational opportunities to the door steps of 78,000 people, young and old, in the nook and corner of the nation. The University has a vast network of 204 Learning Centres. Need based skill oriented 48 programs 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 good repute.

### **4.8.3 Achievements**

- Centre for Fine Arts, Department of Energy Science and Department of Life Long Learning were the new entities established in 2012 and 2013 to offer formal/higher studies in the respective specialization.
- B.Ed. (Special Education), PG Diploma in VAT and Service Tax, MBA (Logistics Management) and PG Diploma in Structural Pharmacogenomics have been introduced under UGC Innovative

Program with the financial assistance from UGC, New Delhi.

- A Skill Development Centre has been established to provide skill training, in association with Infrastructure Leasing and Finance Services (which is under the aegis of Skill Development Corporation of India) in Garment manufacturing, Tailoring, Fashion Designing, Home appliances and functional computer networking to the unemployed youth and senior citizens.
- Alagappa University has established AURF – Alagappa University Research Fund, with a corpus amount of Rs. 5 crore to support Overseas Collaborative Research and Major Research Projects.

- About 400 events of various shades (seminars/ conferences/ celebrations) were organized in the last four years bringing experts from USA, UK, Sweden, South Korea, China, Australia, Canada, France, Muscat, Malaysia, Singapore and Greece and academicians from almost every part of India.
- 40 International and National Days are being observed every year.
- 30 foreign Professors / dignitaries from various Universities have visited and contributed to the framing of curriculum on par with world standards.
- Alagappa University is ranked 3<sup>rd</sup> among top 50 Universities in India in

International collaboration for publications under SCOPUS database. In appreciation, the DST has allotted Rs.6 crore for the research programs under Promotion of University Research and Scientific Excellence (PURSE) scheme.

- University Grants Commission has awarded UGC-BSR Research Fellowship, five of each, to the Departments of Physics, Industrial Chemistry and Biotechnology for the years 2012-13 and 2013-14.
- University earned the project grants of Rs.12.80 crore from various funding agencies during the last four years.



- Two faculty members were selected under UGC Research Award during 2013-14.
- Department of Physics and Industrial Chemistry got status upgradation from DRS-I to DRS-II (Departmental Research Support) under UGC – SAP Scheme.
- The University has created Centres, such as University Business Collaboration Centre, Centre for Technical & Academic Writing, Centre for Multi-Model Material Production for Differently Abled, Department of Biotechnology as the Centre with High Tech. Laboratories and Centre of Swami Vivekananda Higher Research studies.

#### **4.8.4 ACTIVITIES / SCHEMES UNDERTAKEN DURING THE YEAR 2014-15**

- M.A. (Journalism and Mass Communication), M.Ed. programme in Regular stream and B.Ed. through Distance Education stream were introduced.
- Wi-Fi facilities have been partially implemented at a cost of Rs.14.23 lakhs to strengthen soft-infrastructure facilities in the University campus.
- Supply order has been placed to install Captive Solar Energy Generation Panel and Equipment to augment 10% of total HT electricity requirements at a cost of Rs.15 lakhs.

- A Para Sports Centre has been established at a cost of Rs.65.00 lakhs.
- A sum of Rs.113.84 lakhs was obtained through Research projects from various funding agencies, like UGC, DBT, etc.,
- University inked MoU with Florida International University, Florida, USA, James Cook University, Australia and Polytechnic University of Aguascalientes, Mexico.
- B.Voc. programme with specialization in Fashion Technology and Software Management was introduced with the financial assistance of Rs.1.85 crore from the UGC, New Delhi.

- One faculty each under UGC-Faculty Recharge Programme and DST-INSPIRE faculty scheme has joined in the Department of Industrial Chemistry.
- Three faculty members have been selected for UGC Research Award for the year 2014.
- A Management Block is under construction at a cost of Rs.250 lakhs and Rs.50 lakhs has been spent towards construction of compound walls / toilets.
- 10 International Conferences and 32 National Conferences were organized and 43 National and International days / events were observed in the year 2014-15.

- 5 Arts and Science Colleges, including 3 Government colleges, have been affiliated with Alagappa University during the year 2013-14.

#### **4.8.5 ACTIVITIES / SCHEMES PROPOSED TO BE UNDERTAKEN DURING THE YEAR 2015-16**

- Complete Wi-Fi (wireless fidelity) facilities are proposed to be undertaken at a cost of Rs.30 lakhs to strengthen the soft-infrastructure facilities and ensure total ICT (Information and Communication Technology) enabled learning environment in the University campus.

- Efforts are being made to tap the 1-GB “National Knowledge Network” connectivity to its fullest capacity.
- Network has been expanded to enhance the International Collaborative Researches / Projects through the Centre for International Relations to increase the rate of Faculty and Students overseas exchanges.
- The Department of Mathematics and the Department of Oceanography and Coastal Area Studies have been selected for the UGC – SAP – DRS–I, to get financial assistance of Rs.150 lakhs each, thus making the total number of SAP departments as 6.
- The Skill Development Centre has submitted a proposal to the UGC

seeking funds of Rs.500 lakhs under Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood (KAUSHAL) Scheme for developing skilled courses for diploma, advanced diploma, UG, PG & Ph.D in vocational streams.

- Proposals have been submitted for obtaining funds to the tune of Rs.2.50 crore under UGC's schemes to start a "Finishing school" to hone the employability skills of graduates and "Alternate Employment to fisher-folk women" to ensure livelihood of fishing community.
- It is proposed to launch Alagappa University Study Circle to import employability skills to students to

prepare them to face the challenges in the competitive world and to inculcate the sense of group study, group discussion and mentoring the juniors.

- It is planned to start a University Model school for Differently Abled children to teach them regarding the use of various materials produced in the centre for Multi-Modal material production.



## **4.9 MOTHER TERESA WOMEN'S UNIVERSITY**

**4.9.1** Mother Teresa Women's University was established in 1984. The objective of the University is to monitor Women's Education at all levels in the state, develop research facilities for Women, fulfil the social responsibilities and offer consultancy services. At present Mother Teresa Women's University has 16 Departments clubbed under five schools with 2 Research Extension Centres at Madurai and Chennai. There are 11 affiliated Colleges which include 2 Government, 2 aided, 2 Constituent and 5 Self financing Colleges. There are 8 Community Colleges that meet the needs of rural and tribal women students.

### **4.9.2 Achievements**

- Department of Science and Technology Sponsored Fund for Improvement of Science and Technology programme was sanctioned. Under the “Centre for Applied Biotechnology Research”, phyto based nanoparticle synthesis, SNP analysis for migraine, selection of candidate genes for osteoporosis, identification of ecofriendly plants for removal of nitrates from potable water and isolation of entamopathogenic nematodes from soil was completed.
- Patent accepted for “Ecofriendly Golden Yellow dye from Syzygium Cumini jambo lan fruit seed endosperm extract and its

application in the preparation of antimicrobial fabric”.

- The University has introduced online payment facility (E-Collect) which is highly beneficial to both the institution and the students with regard to fee collection and payment.
- Tamil Nadu Commonwealth Mother Teresa Women’s International Centre established by the **Hon’ble Chief Minister** initiated preparatory work to offer the Certificate Courses such as Yoga, Music, Folklore/Dance, Indian Culture and Ayurvedic Sciences.
- “Indian Society for Education and Allied Sciences” organized a UGC sponsored National Seminar on

“Education for Human Resource Development and Management” on 14.11.2014 and 15.11.2014.

### **4.9.3 Activities for the year 2014-15**

- Virtual learning through A-View programme of University Grants Commission.
- The Library is automated by using the Software “SOUL”. The University library has more than 60,000 volumes of books. Online public access catalogue is available in the library. Through UGC Infonet, Mother Teresa Women’s University has access to e journals. The University library subscribes to more than 17,000 e-journals.

- Students of Mother Teresa Women's University and its affiliated colleges won prizes in State Level athletic events as well as inter university Kabadi and Yoga at State Level. They have also received sports scholarships from Sports Authority of Tamil Nadu. Another achievement is the sanction of Rs.80 lakhs by UGC for the construction of an Indore Stadium.
- Swami Vivekananda Centre organized awareness Programme for Rural Women on Universal Ethics and Moral Values.
- Smart Classrooms with Video Conferencing Facility helped the University students for quality education through e-learning.

- The Curriculum Development Cell organized programmes to revamp the Curriculum at a Global level.
- Establishment of Foreign Language Laboratories enhanced the communication skills of the students from rural background.
- Entrepreneurship Development Cell organized Skill training Programme to students to develop their entrepreneurial potentials. Short term courses like Pot Designing, Jewel Making, Food Processing, Mushroom Cultivation, Bakery Items, Shortcut Method Training on Numerical Aptitude Test, Essential Oil Extraction, Foot Mat from unused clothes were conducted to equip the students with employable skills.

- Enhancement of teaching and research through visiting Professors from overseas.
- The Incubation and Technology Transfer Centre organized training programmes on System Troubleshooting and a Workshop on Ethical Hacking.
- The importance of eco textiles are disseminated through conference and awareness programmes.
- The Directorate of Distance Education introduced B.Ed Programme through Distance Mode and opened Distance Education Study Centres within Tamil Nadu.

#### **4.9.4 Proposed Activities/Schemes for the year 2015-16**

- Introduction of M.Phil and Ph.D in Special Education.
- Using DST-FIST instrumentation facility under the “Centre for Applied Biotechnology Research”, to research on the efficiency of phyto-based nanoparticles, in-vivo and in-vitro testing of alternate medicine for migraine, mutation screening system for Osteoporosis, phyto chemical and anti microbial analysis for plants identified to remove nitrates from water and crop pests’ collection for bioassays.
- Establishment of Big Data Analytics Centre and Biometrics Authentication Centre.
- Establishment of training Centre for ICT Services for Common Women in Kodaikanal.



- Launch of a peer reviewed Journal namely “Journal of Studies in Education and Allied Sciences”.
- Courses on Retail Management, Tally, BPO (Business Process Outsourcing), Multimedia and Animation, Hardware Networking to be funded and monitored by TADHCO.
- Establishment of Mother Teresa University Press (MTUP).
- MoU with International Universities to make the students fluent with a minimum of two foreign languages.
- Introduce online Education in technical collaboration with other reputed Institutions through the Directorate of Distance Education.

## **4.10 MANONMANIAM SUNDARANAR UNIVERSITY**

**4.10.1** This University was established as per the Manonmaniam Sundaranar University Act 1990. The University has 26 academic departments and a network of 64 affiliated colleges which include 32 Aided Colleges, 29 Self-Financing Colleges, 7 Autonomous Colleges and 3 Government Colleges. Apart from these affiliated colleges, there are 4 University Constituent Colleges, 6 University Colleges and 20 Community Colleges.

### **4.10.2 MANONMANIAM UNRARANAR UNIVERSITY COLLEGES AND CONSTITUENT COLLEGES**

At present, this frontline educational venture has been expanded into 6 Manonmaniam Sundaranar University

Colleges at Puliangudi, Sankarankovil, Govindaperi, Nagampatti, Thisayanvillai and Panagudi so as to educate and empower the poor and women students at an affordable cost. Apart from these 6 Colleges, there are four Manonmaniam Sundaranar University Constituent Colleges at Sathankulam, Nagalapuram, Kanyakumari and Kadayanallur.

#### **4.10.3 Achievements**

- The University Library is fully Wi-Fi enabled. Software based Braille facility is available for the visually challenged in the Library.
- Funds received from funding agencies such as UGC, DST, CSIR and ICSSR, help in world class research being undertaken in

various departments in the University.

- With funding aid from UGC a 100 kW Solar Power Plant is being installed.
- Under the Directorate of Community Colleges, 20 Community Colleges have been approved and through these Colleges job-oriented, work-related and skill-based one-year diploma courses such as Child Care Education, Air Ticket and Travel Management, Silambam, Mason work, Fire and Safety Management are offered in order to promote the employability of the rural youth through skill development mission for those who have completed 10<sup>th</sup> standard.

- There are Smart Classrooms with video conferencing. Through Foreign Language Laboratories French and German languages are taught.
- Through Entrepreneurship / Skill Development Centre Entrepreneurial Skill, Leadership Skill and Personality Development programmes are conducted.
- The expertise of professors from Foreign Universities was engaged to establish Curriculum Development Cell.

## **4.11 PERIYAR UNIVERSITY**

**4.11.1** Periyar University was established at Salem by the Government of Tamil Nadu in the year 1997. The University is named after the Great Social Reformer E.V. Ramasamy affectionally called "Thanthai Periyar". Approximately 1.5 lakh students have enrolled for various undergraduate and postgraduate courses offered by Periyar University through its 92 affiliated Colleges, 13 Government Colleges, 4 Aided Colleges, 5 Constituent Colleges and 70 Self-Financing Colleges. The University is also offering skill based orientation programmes through 11 Community Colleges. The 24 University Departments of Studies and Research offer postgraduate programmes under the

Choice Based Credit system, M.Phil. and Ph.D. research programmes besides Diploma and Certificate programmes by a few Departments. In addition, the PG Extension Centre at Dharmapuri offers six postgraduate programmes.

#### **4.11.2 Objectives**

- To promote excellence without compromising on inclusive growth
- To carry out research that would result in benefits to society
- To make the teaching-learning process participatory by the students.
- To involve all the stakeholders in educational matters so that knowledge created is relevant to society

- To promote interdisciplinary / multidisciplinary research
- To instill in the students a strong sense of social and moral responsibility

#### **4.11.3 Achievements**

- Establishment of Constituent and Community Colleges
- Student Amenities Centre
- Networking facility
- Internal Quality Assurance Cell
- Patents-Dr.R.Balagurunathan and Dr.P.Indra Arulselvi have received Patents
- Centre for Women Studies
- Women's Welfare Centre
- Export Promotion Council
- Students' Safety Insurance Policy Scheme
- Students' Grievance Redress Cell



- Placement Cell
- Alumni Association
- Health Centre
- PG Extension Centre
- Visits abroad by faculty
- Conduct of numerous Conferences, Seminars and Workshops

#### **4.11.4 Activities undertaken during the 2014-15**

- NAAC has granted 'A' grade to this University
- To promote interdisciplinary research the departments of the University have been clustered to form Schools. Deans have been appointed to monitor and coordinate the activities of the Schools.

- To overcome the problem of delayed results, the barcode technology was introduced to eliminate errors happening by manual entry of important data.
- Coaching and Skill Development Programmes are conducted by the University for the unemployed graduates of Dharmapuri under the SEDP.
- 3 departments of the University have been awarded through SAP (Special Assistant Programme) by the UGC.
- 2 new departments have been established viz., Department of Textiles and Apparel Design and Department of Energy Studies.

- Proposals for 7 of the affiliated colleges have been forwarded to the UGC for consideration of award of College with Potential for Excellence.
- The Department of Zoology has made a presentation for a project under the DST Nano Mission for Rs.80,00,000/-.
- Faculty development programme was conducted for Assistant Professors under the age group of 40.
- Training was given to young faculty and research scholars in project and research paper writing.
- The Radio Frequency Identification technology is made available at the University Library. New database has been added.

- B.Voc. Programme has been sanctioned by the UGC to the tune of Rs.1.7 crore for the academic year 2015 for the courses Textiles and Food Science.

## **4.12 THIRUVALLUVAR UNIVERSITY**

**4.12.1** Thiruvalluvar University was established in the year 2002 by **our Hon'ble Chief Minister**, with 52 affiliated colleges in its jurisdiction, covering Vellore, Thiruvannamalai, Villupuram and Cuddalore Districts. At present 112 colleges are affiliated to this University, out of which 10 are Government, 9 Government Aided, 6 University Constituent Colleges, 1 stand alone MBA Institution and 84 self-financing Arts and Science Colleges. There are also 3 Oriental Colleges.

### **4.12.2 Achievements**

- Department of Zoology has been recognized for DST-FIST Programme Support (2015) for five years duration to strengthen the post graduate teaching and research facilities in the department at a cost of Rs.34.00 Lakh.
- Department of Tamil has published an anthology of the papers presented in a seminar funded by the Central Institute of Classical Tamil for Rs.1.50 lakh

entitled *Teaching Methods in Classical Tamil Literature*.

- Department of English conducted a National Level Seminar on the topic "Indian Literature: Interrogating Dalit Literature" in October 2014 funded by the Indian Council of Social Science Research (ICSSR), New Delhi.

### **Activities in the year 2014-15**

- The South Zone Inter University Women's Football Tournament was conducted by the university at Neyveli from

3<sup>rd</sup> January to 6<sup>th</sup> January 2015.  
The Thiruvalluvar University team won the first place.

- Women's Foot Ball team of the university won the All India Inter-University women's foot ball championship for the third time in succession at Banaras Hindu University in Varanasi from 26<sup>th</sup> February to 3<sup>rd</sup> March 2015.
- A grant of Rs.12 lakhs was received from the University Grants Commission for constructing a Basket ball cement court and a 400 meters track.



- Thiruvalluvar University Constituent Colleges Kallakurichi and Thittakudi received a capital grant of Rs.383 lakhs and Rs.250 lakhs respectively for development.
- Smart Classrooms with videoconferencing facility were established at an estimated cost of Rs.20 lakhs.

#### **4.12.4. Proposed Activities/Schemes for the year 2015-16**

- Proposal by the Department of Tamil for compiling an 'Encyclopedia of Thirukkural' as a project funded through Special

Assistance Programme (SAP) of UGC.

- Applied for the University Grants Commission grant to establish a Department of Physical Education.

## **4.13 ANNAMALAI UNIVERSITY**

**4.13.1** Annamalai University is one of the largest unitary, teaching and residential universities in Southern Asia. Since its inception in 1929, it has aimed at imparting education in all fields of knowledge to students from across the country and abroad. One of the most significant developments has been the repealing of the Annamalai University Act, 1929 which has been replaced by the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013) after obtaining the assent of His Excellency, the President of India. Subsequent to the State Government taking direct control of the University administration and the coming into force of the Annamalai University Act, 2013, several significant steps have

been taken to ensure that the University is properly administrated and managed in fulfilment of the purpose for which it was established.

Located in a rural setting in the coastal district of Cuddalore in Tamil Nadu, the University plays a pivotal role in providing access to higher education to the youth from economically and socially disadvantaged classes. In this respect, this University's service to our nation is tremendous.

In the past 86 years the University has grown into a premier institution of higher learning and research. The University today is functioning in an area spread over an extensive campus of more than 800 acres and has 10 faculty and 49

departments of study. The University has been accredited with 'A' Grade status by NAAC during the year 2014.

The Rajah Muthiah Institute of Health Sciences, comprising the Rajah Muthiah Medical College, the Rajah Muthiah Dental College and the Rani Meyyammai Institute of Nursing offers various UG and PG Programmes, besides serving the rural population through its modern 1260-bed hospital.

The University, being unitary and residential in character, has 30,459 students (Boys : 19825 & Girls : 10634) pursuing various on-campus programmes of study and more than 10,000 of them are accommodated in its 19 hostels which are acclaimed as

the biggest in the country. A total number of 530 students from 23 foreign countries are on the rolls of the University.

The Directorate of Distance Education established in 1979 offers different programmes of study. A total of 2,84,061 students studied through the Directorate of Distance Education during the year 2014-15.

#### **4.13.2 Achievements**

Research and consultancy activities have helped to attract substantial funding from a wide spectrum of national and international agencies to the tune of Rs.110 crore during the last four years.

The significant increase in the quality of publications in the last five

years has resulted in the award of the Promotion of University Research and Scientific Excellence (PURSE) programme with a funding of Rs.15 crore by the Department of Science and Technology. This scheme has resulted in 847 publications, 1 patent and has applied for 6 patents. So far, 251 projects, 102 fellowships have been received and 28 students cleared SLET, UGC-CSIR-NET, GATE, ICAR-NET Exams.

The UGC through SAP has sponsored 19 departments and 17 departments are sponsored under DST-FIST programme.

In the last four years 298 research projects worth Rs.44 crore were completed. Currently 474 research

projects worth of Rs.128 crore are in progress.

SCOPUS ranked Annamalai University as seventh among the all Indian Universities. Annamalai University has collaboration with Tennessee Technological University, USA under Obama-Singh 21<sup>st</sup> Century Knowledge Initiative Award and is the Co-ordinating Institution for the Indo-EU FUNCFOOD Project. 15 patents have been filed and the University has 33 MoUs with prestigious National and International Institutions.

#### **4.13.3 Activities / Schemes undertaken during the year 2014-15**

Several National / International Conferences and Seminars, Training Programmes and Research Projects funded by various funding agencies to the tune of Rs.12.40 crore have been undertaken.



#### **4.13.4 Activities / Schemes Proposed to be Undertaken During the Year 2015-16**

##### **(i) Centre for Women Studies.**

It has been proposed to establish a Centre for Women's Studies in Annamalai University during the year 2015-16, with the financial assistance of University Grants Commission.

##### **(ii) Potential for Excellence in Sports**

Sports Science Centre with advanced training and coaching to athletes (Track and field) has been proposed under the Centre of Excellence for Development of Sports (CEDS) scheme in UGC XII plan (2012-2017).

##### **(iii) Improvement of existing sport facility**

University Grants Commission has sanctioned a sum of Rs.2.40 crore to

improve the sports facilities of the University.

**(iv) International Collaboration with United Kingdom India Educational and Research initiatives (UKIERI)**

DST – UKIERI joint project has been proposed for “Multiscale Modelling of Cancer in Soft Tissue: Towards Quantitative Prediction of Drug Delivery and Tissue Response”.

**(v) University with Potential for Excellence (UPE)**

The Institution is now poised for attaining the status of University with Potential for Excellence.

**(vi) Centre with Potential for Excellence in Particular Area (CPEPA)**

Three Departments (Mechanical-manufacturing, Biochemistry & Biotechnology and Marine Sciences) are identified for attaining the status of CPEPA

## **5. TAMIL NADU ARCHIVES**

5.1 Tamil Nadu Archives plays a vital role as the custodian of public records. The State Archives has a proud legacy of more than a century.

5.2 Tamil Nadu Archives houses the records of various Departments of the Secretariat, erstwhile Board of Revenue, few Heads of Departments and the records prior to A.D. 1857 of Collectorate, District Courts records of Dutch, Danish and Persian languages are also housed in the Archives.

5.3 Many authors, historians and researchers from Universities and colleges, both Indian and foreign, are visiting Tamil Nadu Archives for their research. The Tamil Nadu Archives

Library has good collection of rare books and is also a rich treasure trove of knowledge to the scholars. The Gazetteer section of Tamil Nadu Archives has been engaged in the work of publishing District Gazetteers for various districts.

5.4 In order to preserve the records, digitization by scanning and microfilming of records has been undertaken in a phased manner. Under Part II Schemes 2014-2015 work of Scanning and Microfilming of mended records of pre 1900 and post 1900 for Rs.10.00 lakhs was approved by the Government. This work has been entrusted to ELCOT.

5.5 Financial assistance to the tune of Rs.67.00 lakhs has been

sanctioned from the State Innovation Fund for the purpose of hosting scanned records in Government website and provision of integrated computer systems in Tamil Nadu Archives.

## **6. TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION**

**6.1** 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 policies and programmes between Central, State Government and University Grants Commission. TANSCHE is one of the foremost Councils in the country.

### **6.2 ACHIEVEMENTS**

- Introduction of 'Study Abroad Programme' which facilitates study for a semester in United Kingdom for

25 P.G. Students and 5 faculty members of Government Arts and Science Colleges every year.

- The 'University Business Collaboration Centres' in 6 Universities have been established and Tamil Nadu State Council for Higher Education is a Nodal Centre for them.
- 'Special Care for slow learners scheme' is implemented in order to prevent college dropouts in 6 Government Arts and Science Colleges and 18 University Constituent Government Arts & Science colleges
- 'International Relation Centre' has been established to link colleges/universities of Tamilnadu

with international institutions in teaching, research, internship, capacity building and extension services.

- The 'Soft Skill Centre' for empowering students in 30 Government Arts and Science Colleges has been established.
- 'State Integrated Boards of Studies' provides a 'subject pool' under 8 different heads and plays a major role in deciding equivalence for courses.
- Introduction of 'Minor Research Project' for Teachers of University Constituent/Government Arts and Science colleges and 'Student Mini Project' for students of Government Arts and Science colleges.



- This Council has two major biannual publications - 'Journal of Humanities and Social Science' and 'Journal of Modern Science' - to promote research activities.
- Training programmes for Principals of Government Arts and Science Colleges and Administrative Training for all Registrars and Administrative Staff of all universities were conducted.

### **6.3 ACTIVITIES/SCHEMES UNDERTAKEN DURING THE YEAR 2014-2015**

- **Study Abroad Programme** was successfully implemented for the second year in 2014-15. 25 students and 5 faculty members from 15

Government Arts and Science colleges studied for a semester in United Kingdom institutions from September 2014 to January 2015. The Government spends Rs.15.00 lakhs per candidate.

- The **University Business Collaboration Centres** established in 6 state Universities – University of Madras, Alagappa university, Bharathidasan University, Bharathiyar University, Madurai Kamaraj University and Manonmaniam Sundaranar University have been helping in building tie-ups with industry, enable placements and encourage participation of industry in education through internships, campus

placements. The Government spends Rs.4.50 lakhs for this scheme.

- **Special Care for Slow Learners** scheme is being successfully implemented by conducting coaching classes and remedial classes in 6 Government Arts & Science Colleges and 18 University Constituent colleges to prevent drop outs thereby helping them in completing their graduation. This scheme focuses on preventing drop-outs in colleges and enabling slow learners receive special and customized training and develop their learning skills. The Government spends Rupees 30 lakhs for this scheme every year.
- **International Relations Centre** of Tamil Nadu State Council for Higher

Education as a nodal agency has compiled the international collaborative activities of the 13 State Universities as exchanges available and sought, MOUs and venture capital required to strengthen their collaborations with foreign countries. Initiatives are also underway to create a database to disseminate information to all the Universities on the fellowships, scholarships available for capacity building in international affairs.

- **Soft Skills Centres:** 15 teachers from each of the 30 Government Arts and Science Colleges where the Soft Skills Centres have been established have been trained by INTEL and the Centres are engaged in training the students in Soft Skills. Computer literacy,

communication skills, personality development and interview skills which are integral part of soft skills are imparted to the students to make them ready to take up jobs on completion of their degrees. An initial amount of Rs.2.00 lakhs as Non-recurring grant and Rs.2.50 lakhs as annual recurring grant is being spent on this scheme for each of the 30 Colleges.

- **State Integrated Boards of Studies** comprising experts in the relevant areas of knowledge concerned has been established.
  - Biological and Bio-technological Sciences
  - Mathematical Sciences

- Physical Sciences and Chemical Sciences
- Board on Technology
- Management and Commerce
- Social Sciences and Humanities
- Languages
- Board on Education

The board will play a major role in deciding equivalence for courses in different institutions and will also help faculty and students easily migrate from one institution to another at ease and for higher education and employment.

- Selection of 'Minor Research Project' of teachers of Government Arts and Science college/university constituent colleges for funding Rs.1.00 lakh each and 'student mini project' proposals

submitted by the post graduate students of Government arts and science colleges for funding Rs.15,000/- each both upto 100 projects. This is an ongoing scheme.

#### **6.4 ACTIVITIES/PROPOSED FOR THE YEAR 2015-2016**

- Study Abroad Programme has been one of the pioneering projects in Higher Education. As this programme is an important one, decisions to implement the programme for this year was taken in the Council utilizing the balance funds available from the last two years and supplement it with TANSCH Development Fund.
- Organise teacher exchange programmes with other states in the

nation for capacity building and to share best practices.

- Conduct workshops for PG students and research scholars in Government colleges to develop research aptitude.
- As nodal centre, coordinate in the establishment of 3 Centres of Excellence (Vision 2023) in Basic Sciences, Nano Technology and Construction Management in the state universities.
- Enhance the communications skills of under graduate students through the Tamil Nadu Innovative Initiative (TANII) project on “Content and Language Integrated Learning to Enhance the Communication Skills” thereby improve their employability prospects. An amount of Rs.62.40 lakhs has been sanctioned for a period of 3 years.



## **7. RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA)**

**7.1** Rashtriya Uchchatar Shiksha Abhiyan (**RUSA**) is a significant strategic scheme in central funding mapped by the Planning Commission in the Twelfth Five Year Plan.

**7.2** An amount of Rs.5 crore received by the State is being effectively utilized to prepare the State Plan, to establish the Project Directorate and the technical support Group. The Department has prepared a very diligent State Plan under different components to enable it to remove inequalities in access to higher education amongst various social groups, for improving the quality of teaching learning processes, to produce

employable competitive graduates, for promoting research and faculty development activities and mainly to strengthen the academic and physical infrastructure in order to reinvigorate the institutions and to extend the frontiers of knowledge.

**7.3** Taking advantage of the rich demographic dividend the State already enjoys, the funding will be utilized for producing an intelligent human resource pool equipped to address global challenges by effecting cohesive and integrated planning and by correcting sectoral and social imbalances in higher education.

**7.4** The priority requirements for implementing the scheme are met by the

Department through need based customized equity interventions, quality improvement and skill development programmes and faculty improvement programmes. By improving the physical infrastructure, providing more girls hostels in Government institutions, converting existing buildings into disabled friendly and upgrading model degree colleges, technical institutions and arts and science colleges a holistic growth would be achieved, thereby making Tamil Nadu a higher education hub.

## **8. SCIENCE CITY**

### **8.1 BRIEF HISTORY OF SCIENCE CITY**

Science City, an autonomous organization under the Department of Higher Education was established in the year 1998 with the prime objective of sensitizing, popularizing and propagating science among the masses. The geographic area earmarked as Science City is a unique agglomeration of more than 60 premier educational and research institutions. The institutions situated within the Science City area can be considered as a repository of quality and technical human resources. Utilizing this unique knowledge storehouse, Science City has been organising several important and unique programmes pertaining to science and technology.

Science City organizes a wide range of programmes starting from basic science to advanced areas or the so called frontier areas of science and technology.

## **8.2 IMPORTANT ACHIEVEMENT DURING PAST FOUR YEARS ACTIVITIES / SCHEMES DURING THE YEAR 2012-13**

- Nano Revelation '12 – Series of seminars were organized in association with the National Centre for Nanoscience and Nanotechnology, University of Madras, for the benefit of college students to keep them informed about the applications of Nanoscience and Nanotechnology

and its developments across the world.

- Seminar on Safe Laboratory Practices in Schools and Colleges was organized in association with the Department of Inorganic Chemistry, University of Madras and the Sri Ramachandra University for the benefit of school and colleges students.
- The Chennai Science Festival is a unique and novel mega event being organized by the Science City since 2008. The 6<sup>th</sup> Chennai Science Festival 2013 was organized from 30<sup>th</sup> January to 3<sup>rd</sup> February, 2013 at the Anna Gem Science Park School.

### **8.3 ACTIVITIES/ SCHEMES DURING THE YEAR 2013-2014**

- Science City, in association with The King Institute of Preventive Medicine and Research organized series of 6 hands on training programmes in 6 modules such as Microscopy and microbial staining procedures, Media preparation and sterilization procedures, Medical Microbiology, Serological techniques, Molecular techniques and Bioinformatics.
- Science City has installed a 10 kW Grid Type Roof Top Solar Photovoltaic System to generate electricity by harnessing the abundant sunlight available and is generating on an average 40 kW of electricity per day.

- Science City organized the 7<sup>th</sup> Chennai Science Festival 2014 from 29<sup>th</sup> January to 1<sup>st</sup> February, 2014 at the Anna Gem Science Park School. 110 institutes belonging to both State and Central Government participated which was visited by students from 86 schools and 14 colleges apart from the general public.
- 10 women scientists from various universities and colleges were bestowed with Tamil Nadu Young Women Scientist Award. The award comprises of cash prize and a brass citation.
- Children Science Academy Award was given to 69 young school



students from across the state for their innovative ideas.

#### **8.4 ACTIVITIES/ SCHEMES DURING THE YEAR 2014-2015**

- Science City organized a three day workshop on Sheep, Duck and Pig farming for benefit of the rural farming community.
- 30 students from all over the State attended Summer Training Programmes in Basic Sciences.
- Three day seminar was organized on the “Fundamentals and Applications of Nanoscience and Nanotechnology” in association with the National Centre for Nanoscience and Nanotechnology.
- Science City organized a Training Programme for the benefit of

polytechnic students on  
“Establishing Youth Health Clubs at  
the Polytechnic Colleges”.

- Science City organized seminars for different sections of the differently abled viz., speech and hearing impaired, visually challenged and orthopaedically challenged.
- The 8<sup>th</sup> Chennai Science Festival was organised at Queen Mary’s College during the last week of February, 2015.

## **9. TAMILNADU SCIENCE AND TECHNOLOGY CENTRE**

9.1 Tamil Nadu Science and Technology Centre was established by the Government of Tamil Nadu in 1983, as an autonomous body, under the Chairmanship of Hon'ble Minister for Education, with the main objective of popularising Science and Technology among the people in general and students in particular. Tamil Nadu Science and Technology Centre prides itself on making science an inspiring and exciting experience for people of all ages. At Periyar Science and Technology Centre, Chennai, the B.M. Birla Planetarium and the interactive exhibits housed in the galleries of: Periyar, Transport, Urban

Development, Information Technology, Life sciences, Ocean, Electronics and Communication, Fun Mirrors, Dr. Solomon Victor Heart Museum, 3D Science Theatre, Science Parks, Evolution Park and State Level Energy Park cover a wide range of topics related to astronomy, science, technology and mathematics and take up a total of about 10,000 Sq.mt of indoor and outdoor space.

Defence Research Gallery, Ramanujan–Mathematics Gallery, Indian Space Research Gallery and Hall of Nuclear Power are the new galleries that are nearing completion, with a wealth of information in respective fields. Tamil Nadu Science and Technology Centre has also established a Science Centre with Planetarium, known as Anna

Science Centre at the city of Tiruchirappalli. A Regional Science Centre at Coimbatore and a District Science Centre at Vellore were also established.

## **9.2 Activities:**

Tamil Nadu Science and Technology Centre offers a wide range of enrichment programmes for students aimed at complementing the school's formal science education as well as competitions, workshops, seminars, Statewide Science Evaluation and Motivation Contests, spend-a-day in Science Centre activities and outreach activities for school students, teachers and for everyone.

The activities of the Science and Technology Centre also include organising temporary exhibitions, conducting workshops, seminars, lectures, short-

term courses, astronomy camp and quiz competitions periodically to reach out several thousands of students and general public yearly. Every year the United Nations announces the science theme of the year to celebrate by organising out-reach activities. Following the theme of the year, Tamil Nadu Science and Technology Centre organizes several programmes for the benefit of the student community.

Sky Observation Camps are also conducted during astronomical events as well as on a regular basis to observe the night sky through telescopes. These programmes are very popular among the students.

A Science Museum on wheels and a Mathematics Museum on wheels were

developed to reach the remotest parts of the Tamil Nadu State.

- A Regional Science Centre with facilities of four galleries, namely, "How Things Work Gallery", "Textile Gallery", "Physical Sciences Gallery" and "Fun Science Gallery" along with 3D Theatre and a Science Park has been established at a cost of Rs.850 lakhs in Coimbatore.
- To make the public aware of technological developments taking place in our Defence Forces, a "Gallery on Defence Research and Development" is being established at an estimated cost of Rs.100 lakhs with the assistance from the Defence Research and Development

Organisation of Government of India, in Periyar Science and Technology Centre, Chennai. The gallery will be dedicated to the public shortly.

- With a view to eradicate the phobia prevailing among the student community about mathematics, “Ramanujan Gallery” with details covering  $\pi$  (pie), learning mathematics through fun, usage of mathematics in day- to-day life, mathematics in industries etc. has been established at an estimated cost of Rs.40 lakhs in Periyar Science and Technology Centre, Chennai. This gallery will be opened to the public shortly.
- To remove the phobia about mathematics among the student



community in rural areas, a Mobile Math Museum Bus at an estimated cost of Rs.25 lakhs was developed. This Mobile Math Museum Bus will be put into use of the public shortly.

- To make the public aware of the need to explore the possibility of harnessing the non-conventional sources of energy, a State Level Energy Park has been established at an estimated cost of Rs.140 lakhs at Periyar Science and Technology Centre, Chennai.
- To dispel the misconceptions and to eradicate unfounded fear about the nuclear power, a “Hall of Nuclear Power” depicting the constructive uses of Nuclear Power for society is being established at an estimated cost of Rs.240 lakhs at Periyar Science and

Technology Centre, Chennai with the financial assistance of Nuclear Power Corporation of India Limited. The gallery will be opened to the public during the financial year 2015-16.

- To make the public and students aware of the developments taking place in Research in Space, Launching of Rockets and Information on Planets and Stars, a "Space Science Gallery" is being established at an estimated cost of Rs.50 lakhs at Periyar Science and Technology Centre, Chennai with the financial assistance of Indian Space Research Organization. The gallery is ready for inauguration.

## **9.3 ACTIVITIES FOR 2015-2016**

### **9.3.1 ESTABLISHMENT OF EVOLUTION PARK IN ANNA SCIENCE CENTRE – PLANETARIUM, TIRUCHIRAPPALLI**

Tamil Nadu Science and Technology Centre has established an Evolution Park at Periyar Science and Technology Centre, Chennai. This attracts more number of visitors to Science Centre especially to know the evolution of life. Similar to this another modern Evolution Park will be established at Anna Science Centre, Tiruchirappalli. This Evolution Park will comprise life-like models starting from single cellular organisms to human development. These exhibits will be fabricated incorporating some pneumatic movements in order to attract the visiting

public. The evolutionary history will, thus, be traced in the park by displaying exhibits on small invertebrates, first vertebrate, amphibians, reptiles, first bird, mammals, primates and evolution of man. This park will be established at an estimated cost of Rs.70.00 lakhs. The work is under progress. The park will be opened to the public during the financial year 2015-16.

### **9.3.2 PORTABLE PLANETARIUMS**

Tamil Nadu Science and Technology Centre, through its planetariums at Chennai and Tiruchirappalli is actively engaged in popularization of Astronomical Concepts. Through the planetariums, the objects of night sky, celestial navigation methods, identification of constellations, causes for the seasons, apparent paths of

the sun and the planets are shown. Only with a planetarium, these concepts can be conveyed effectively. However, as this centre have planetariums only in two cities of Tamil Nadu, the students from remote villages of Tamil Nadu are deprived. Since it is not possible to establish planetarium in all the places, it is only with the help of Portable Planetarium, explanations could be disseminated on planets, stars, sun and constellations. For the benefit of the students in all parts of Tamil Nadu, four Portable Planetariums will be procured for the four centres of Tamil Nadu Science and Technology Centre, viz., Chennai, Tiruchirappalli, Vellore and Coimbatore. The Portable Planetariums will be carried to nearby areas from the respective

centres at an estimated cost of Rs.40 lakhs. The facilities will be dedicated to the public during the financial year 2015-2016.

### **9.3.3 ESTABLISHING 3D SCIENCE THEATRE AT DISTRICT SCIENCE CENTRE, VELLORE**

Scientific concepts can easily be communicated if they are presented with immersive effect. In order to provide information on scientific theme in a mindboggling way, 3D immersive Projection movies will be useful. A 3D Science Theatre is being developed at a cost of Rs.15 Lakhs at District Science Centre, Vellore. The works are under progress. The facility will be inaugurated in the financial year 2015-16.

#### **9.3.4 ESTABLISHING STRONOMICAL OBSERVATORY IN PERIYAR SCIENCE AND TECHNOLOGY CENTRE**

An astronomical observatory is a place where very good telescopes and instruments like, imaging devices, analyzing instruments, etc. are kept for the people to observe the celestial objects and to carry out research on astrophysics. The telescopes will be kept in a building with a movable domed roof. The dome will have the facility to open and to turn towards the sky needed to be seen by the telescope. The dome movements will be controlled by electric motors. Observatories can be used by the general public also to view the celestial objects such as planets, Moon, galaxies, star

clusters, nebulae, etc. safely. Planetarium is a good place for establishing an observatory. Presently, the scientific discipline astrophysics is developing very fast. Students have very good career scope in this field as researchers or technical support staff. Working in a real environment of an observatory will motivate the young minds. Moreover, for the general public, observing celestial events in an observatory will be more satisfying and informative. An astronomical observatory at Periyar Science and Technology Centre, Chennai will be established at an estimated cost of Rs.40 lakhs. This facility will be made available to the public during the financial year 2015-16.



## **10. TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

**10.1** The Government of Tamil Nadu formed Tamil Nadu State Council for Science and Technology as an autonomous apex body in 1984 with a view to develop the Science and Technology sector of our State. The Council is implementing several schemes related to research and development, extension and field oriented programmes to fulfil this mandate.

For the last 4 years, the Council has been not only increasing its activities but also improving the coverage of its various S&T schemes due to steady increase in the financial allocation. The Council has received a total allocation of Rs.181.27

lakhs during 2011-2012 ; Rs.203.77 lakhs during 2012-2013; Rs.195.06 lakhs during 2013-2014; Rs.232.56 lakhs during 2014-2015 and Rs.200.19 lakhs during 2015-2016 by the Government. The Council has fully utilized the allocated grants and reached more beneficiaries in these years resulting in conduct of more number of research and extension activities in our State.

## **10.2 STUDENT PROJECTS SCHEME**

Tremendous student talent available in the State is utilized for the development of Science and Technology through this scheme. Final year students of UG/PG in Engineering and PG Students of Sciences / Medicine/ Agriculture/ Veterinary Sciences are provided with a

maximum grant of Rs.10,000/- under this scheme for carrying out research projects which are socially relevant and useful to our State. During 2014-2015, 250 projects were selected for support, with a total cost of Rs.20.00 lakhs. During 2015-2016 this scheme will be implemented with a budget of Rs.20.00 lakhs to support 250 student projects.

### **10.3 SCIENCE AND TECHNOLOGY PROJECTS**

Financial assistance is provided to scientists and researchers for carrying out R&D work having social relevance and usefulness to our State. Major areas of research in sectors such as Agricultural Sciences, Biological Sciences, Environmental Sciences, Engineering and

Technology, Medical Sciences, Physical Sciences, Social Sciences and Veterinary Sciences are being supported to contribute to the development of our state. During 2014-2015, 15 projects were selected for support with a budget of Rs.35.00 lakhs. During 2015-2016, this scheme will be continued with a budget of Rs. 35.00 lakhs to support 15 more research projects.

#### **10.4 YOUNG STUDENT SCIENTIST PROGRAMME**

Identification of Young talent in scientific research is conducted for children of IX standard and they are given exposure to various aspects of science and technology so that they are motivated to take up careers in science

and research. In this scheme, during 2014-2015, a set of 20 districts were covered benefiting 800 students with a budget of Rs.30.00 lakhs. This programme will be continued in 10 districts during 2015-2016 with a budget of Rs.15.00 lakhs for a duration of 15 days.

### **10.5 YOUNG SCIENTISTS FELLOWSHIP SCHEME**

Young scientists and researchers of our State below 40 years of age are eligible for this scheme. Selected candidates can acquaint themselves with latest techniques in science, research and development through this fellowship which is provided by the Council for a period of 2 to 6 months in addition to their regular salaries by their parent

institutions. They take up training/learn sophisticated instrumentation techniques or modern research methodologies or do collaborative research work with senior scientists in the host Research Centers such as CSIR laboratories, IIT / Universities within India. During 2014-2015, this scheme was implemented with a total cost of Rs.3.00 lakhs. This programme will be continued during 2015-16, with a budget of Rs.3.00 lakhs.

#### **10.6 PARTIAL ASSISTANCE FOR SEMINAR/SYMPOSIUM/ WORK SHOP**

This ongoing scheme enables exchange of scientific knowledge and ideas between scientists, researchers and other sections of society related to science and research by providing partial

financial assistance to the organisations within the State of Tamil Nadu, to organize such seminars/ symposia/ workshops. Under this scheme, during 2014-2015, 50 programmes were supported with a cost of Rs.10.00 lakhs. This programme will be continued during 2015-2016 at a cost of Rs.10.00 lakhs to support 40 seminars/workshops.

## **10.7 POPULARISATION OF SCIENCE AND TECHNOLOGY**

The objective of the scheme is to popularise Science and Technology among school children, farmers and the public by providing financial support to Universities, Colleges and Voluntary Organisations to conduct Science Exhibitions, Training Programmes, Popular Lectures, on various aspects of

Science and Technology. In this ongoing scheme, during 2014-2015, 50 organisations were supported with a cost of Rs.7.50 lakhs. During 2015-2016, financial support will be given to 50 programmes with a budget of Rs.7.50 lakhs.

### **10.8 TRAVEL GRANT FOR YOUNG SCIENTISTS**

Under this scheme, young scientists and researchers of Tamil Nadu below 40 years of age are provided with 50% of air fare in case of international conferences and 100% train fare (First class) in case of national conferences to present their research findings. In 2014-2015, under this ongoing scheme, scientists have been supported with Rs.2.50 lakhs. During 2015-2016, this programme will be



continued with a budget of Rs.2.50 lakhs to enable researchers of our state to present their research in scientific forums.

### **10.9 ASSISTANCE FOR SCIENCE & TECHNOLOGY PUBLICATIONS**

The objective is to bring out scientific publications in Tamil, to disseminate the latest trends in Science and Technology and ensure a wider reach. Financial assistance is also provided to scientists to bring out text books in Tamil for the use of students. During 2014-2015 this programme was implemented at a cost of Rs.0.50 lakhs. During 2015-2016, this programme will be implemented with a budget of Rs.0.50 lakh to promote publication.

## **10.10 TAMILNADU SCIENTISTS AWARD (TANSA)**

Scientists and researchers who have made significant contribution in their fields of research through their skill/pioneering/ outstanding, applied research work leading to S&T development in the State are honoured and encouraged with a cash award of Rs.50,000/- and a citation. Awards are given in 10 disciplines such as (i) Agricultural sciences (ii) Biological sciences (iii) Chemical sciences (iv) Engineering and Technology (v) Environmental sciences (vi) Medical sciences (vii) Mathematical sciences (viii) Physical sciences (ix) Social Sciences and (x) Veterinary Sciences. The annual cost of the TANSA scheme is Rs.7.00 lakh.

This scheme will be continued during 2015-2016 as well.

### **10.11 CREATION OF SCIENTIFIC AWARENESS**

The objective of the scheme is to create scientific awareness among the Self Help Groups, farmers and students. During 2014-2015, 10 districts were covered with a cost of Rs.6.50 lakhs under this scheme. This programme will be implemented in 2015-2016 for another 10 districts and the cost would be Rs.6.50 lakhs.

### **10.12 QUALITY IMPROVEMENT OF SCIENCE EDUCATION IN RURAL SCHOOLS**

To update knowledge, In service Training programmes are conducted for the Science Teachers who are teaching

the Science subjects of VI, VII and VIII standards through this scheme, in Arts and Science Colleges of our State for a period of five days. During 2014-2015, 10 districts were covered under this scheme with a budget of Rs.9.00 lakhs. This programme will be implemented in 2015-2016 for another 10 districts at a cost of Rs.9.00 lakhs.

### **10.13          DISSEMINATION                  OF INNOVATIVE TECHNOLOGY**

Innovative technologies brought out by academic and research institutions are disseminated by academics and scientists through training programmes and workshops so that field applications of useful innovations are enabled. Under this ongoing scheme, 18 programmes

were organized with a budget of Rs.9.00 lakhs during 2014-2015. During 2015-2016, this programme will be continued with a budget of Rs.9.00 lakhs for conducting 18 programmes.

#### **10.14 APPLICATION OF SCIENCE & TECHNOLOGY IN RURAL AREAS**

This scheme envisages the transfer of science and technology techniques and findings to selected rural areas of our State. During 2014-2015, this programme was implemented in 10 districts at a cost of Rs.10.00 lakhs. This programme will be implemented in 2015-2016 for another set of 10 districts at a cost of Rs.10.00 lakhs.

### **10.15 SCIENCE AND TECHNOLOGY CAPACITY BUILDING FOR INDUSTRIAL NEEDS**

The objective is to enable graduates to acquire skill sets relevant to industries and motivate them for self employment. It is organized with the active collaboration of industries and colleges (Polytechnics included). During 2014-2015 this programme was implemented at a cost of Rs.10.00 lakhs covering 10 districts. This programme will be implemented in 2015-2016 for another 10 districts at a cost of Rs.10.00 lakhs.

### **10.16 PROGRAMME FOR RIDGING THE GAP IN RESEARCH FUNDING FOR RESEARCH SCHOLARS IN COLLEGES**

This scheme enables research scholars of colleges to take up useful and

application oriented research relevant to our State, by bridging the gap in research funding. The proposals received from research students of various colleges are evaluated and suitable projects are selected for financial support. In 2014-2015 it was implemented with the budget of Rs.15.00 lakhs to support 5 research programmes. This programme is to be continued in 2015-2016 with a budget of Rs.15.00 lakhs.

### **10.17 IMPROVEMENT OF S&T INFRASTRUCTURE FACILITIES AT GOVERNMENT COLLEGES**

The Government is promoting both quality and quantity in the Higher Educational sector so that trained and technical manpower is made available to the various sections of society. The S&T

infrastructure facilities available in Government colleges have to be improved to make a desirable impact in the area of research and development. Therefore, financial support is provided to improve the infrastructural facilities such as laboratory and instrument facilities in Government colleges of our state for research and development. During 2014-2015, this programme was carried out with a sum of Rs.30.00 lakhs to upgrade and improve the facilities for research and development. During 2015-2016, it is to be continued with a budget of Rs.20.00 lakhs.



## **11.TAMIL NADU STATE COUNCIL FOR TECHNICAL EDUCATION**

### **11.1 BRIEF HISTORY OF COUNCIL**

Tamil Nadu State Council for Technical Education was established by an Act of the Tamil Nadu State Legislative Assembly in the year 2010 for coordination and determination of standards in Colleges and scientific research in technical education and development of technical education in the State. It forwards the developmental programmes of University and Colleges to the University Grant Commission and All India council for Technical Education (AICTE).

## **11.2 ACTIVITIES UNDERTAKEN DURING 2014-15:**

- An International Seminar on “Present Trend of Hybrid Pedagogy in English Language Teaching” by Professors from Cambridge was organized in active collaboration with the Anna University and the Staff of Technical Education Quality Improvement Programme (TEQUIP) during the second week of November 2014 at Directorate of Technical Education (DOTE) in Chennai.
- As per the objectives stipulated in the Tamil Nadu State Council

for Technical Education (TANSCTE) Act 2010, remarks were submitted to Government then and there in policy matters of Higher Technical Education, survey on higher education etc.

### **11.3 ACTIVITIES TO BE UNDERTAKEN DURING 2015-16:**

- To restructure and promote innovation and enhancement of curriculum in technical education to meet the technological advances and challenges by creating a Task Force for this purpose.
- To conduct seminars, workshops in thrust areas of Technical Education and to provide financial support for Seminars/ Conferences / Research projects.

## **12. TAMIL NADU STATE URDU ACADEMY**

**12.1** The Tamil Nadu State Urdu Academy was inaugurated on 21.07.2000. Hon'ble Minister for Higher Education is the Chairman of the Academy. In Tamil Nadu, Urdu Language is offered in 20 Colleges and Arabic language is offered in 5 Colleges.

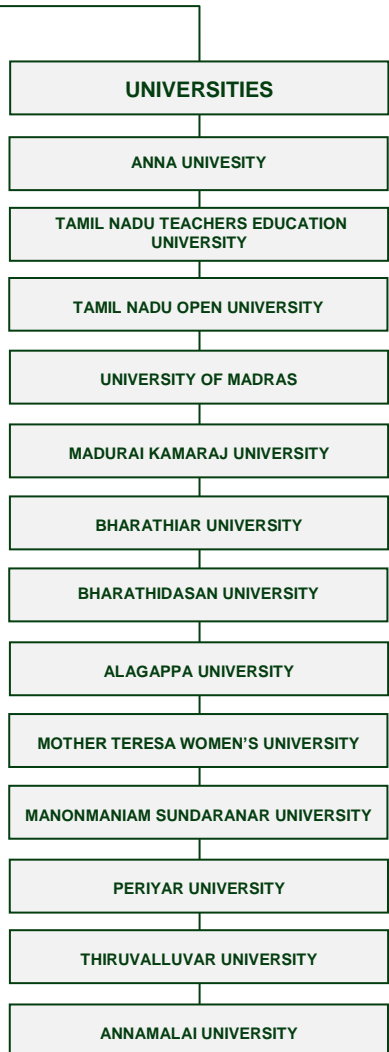
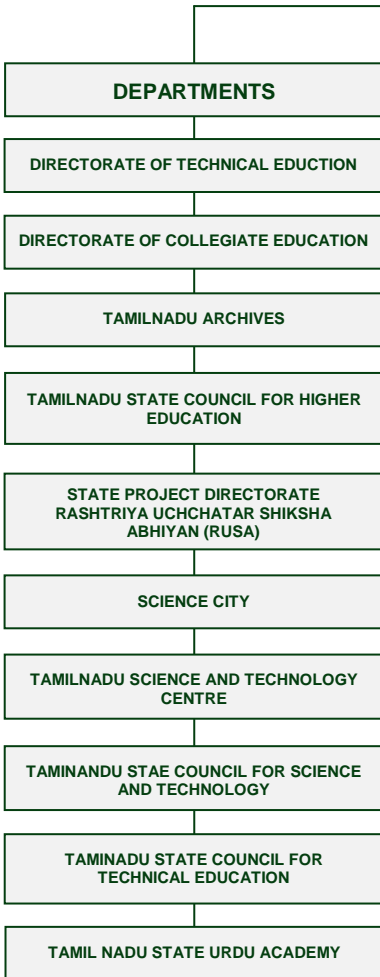
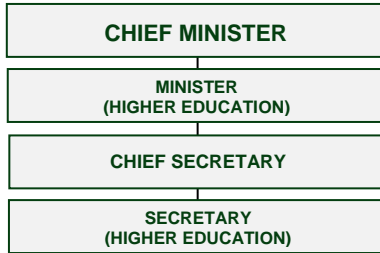
### **12.2 ACHIEVEMENTS**

- The Academy co-sponsors All India Mushairas conducted by National Chamber of Commerce.
- The Academy gives "Dr Abdul Huq Award" for Literary Excellence to six poets with a cash award of

Rs.25,000/- each and also gives merit awards and cash prizes to State rank holders in Urdu language.

**P.Palaniappan,  
Minister for Higher Education.**

**ORGANOGRAM**



**COLLEGIATE EDUCATION  
NUMBER OF COLLEGES IN THE STATE UPTO 2014-15**

<b>TYPE OF COLLEGES</b>	<b>GOVERNMENT COLLEGES</b>	<b>GOVERNMENT AIDED</b>	<b>SELF FINANCING</b>	<b>TOTAL</b>
<b>Arts and Science Colleges</b>	<b>76</b>	<b>139</b>	<b>448</b>	<b>663</b>
<b>Physical Education</b>	<b>0</b>	<b>3</b>	<b>8</b>	<b>11</b>
<b>Oriental Colleges</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>
<b>School of Social Work</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>
<b>Colleges of Education</b>	<b>7</b>	<b>14</b>	<b>651</b>	<b>672</b>
<b>University Constituent Colleges</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>37</b>
<b>Total</b>	<b>120</b>	<b>162</b>	<b>1107</b>	<b>1389</b>

**COLLEGIATE EDUCATION  
NUMBER OF STUDENTS ADMITTED DURING 2014-15**

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	59002	13701	2560	1278	750	77291	58829	13674	2513	1207	750	76973
Aided Colleges	107006	22030	2842	2001	491	134370	92099	22015	2807	2001	491	119413
University Constituent Colleges	8900	352	0	0	0	9252	8894	349	0	0	0	9243
Self Financing Colleges	118166	27435	1310	66590	277	213778	99128	16927	1308	65648	277	183288
<b>Total</b>	<b>293074</b>	<b>63518</b>	<b>6712</b>	<b>69869</b>	<b>1518</b>	<b>434691</b>	<b>258950</b>	<b>52965</b>	<b>6628</b>	<b>68856</b>	<b>1518</b>	<b>388917</b>



**TECHNICAL EDUCATION**  
**DETAILS OF ADMISSIONS TO FIRST YEAR DIPLOMA COURSES IN POLYTECHNIC COLLEGES FOR THE YEAR 2014-15**

SL. NO.	TYPE OF INSTITUTIONS	No. of Institutions	Intake 2014-15	OC		BC (Others)		BC (Muslim)		MBC/DNC		SC		SC(A)		ST		TOTAL		Total Admitted
				BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	
1	Government Polytechnic Colleges (Regular)	41	11735	103	28	2924	881	352	50	2559	515	1792	555	260	107	75	19	8065	2155	10220
2	Government Polytechnic Colleges–Shift (14 Colleges)	*	3420	58	2	1078	60	130	7	722	43	502	62	71	0	34	0	2595	174	2769
3	Government Aided Polytechnic Colleges (Regular)	34	15229	378	49	4519	604	591	50	2519	299	1455	244	230	52	37	5	9729	1303	11032
4	Government Aided Polytechnic Colleges – Shift (2 Colleges)	*	240	10	0	112	1	12	1	34	1	18	0	1	0	1	0	188	3	191
5	Diploma Level Programmes in Engineering Colleges by Shift (4 Colleges)	*	600	145	43	67	12	1	0	16	1	135	12	8	0	0	0	372	68	440
6	Affiliated Institutions	5	349	20	0	97	0	7	0	90	1	72	4	9	0	2	0	297	5	302
7	Hotel Management and Catering Technology Institutions	15	1050	8	0	51	1	7	0	35	1	30	0	0	0	0	0	131	2	133
8	Self-Financing Polytechnic Colleges (Regular)	414	178154	7017	640	27501	1887	3734	115	21970	1223	17460	1958	1208	162	518	71	79408	6056	85464
9	Self-Financing Polytechnic Colleges – Shift (9 Colleges)	*	1080	8	0	230	2	27	0	264	0	119	0	4	0	2	0	654	2	656
	<b>Total</b>	<b>509</b>	<b>211857</b>	<b>7747</b>	<b>762</b>	<b>36579</b>	<b>3448</b>	<b>4861</b>	<b>223</b>	<b>28209</b>	<b>2084</b>	<b>21583</b>	<b>2835</b>	<b>1791</b>	<b>321</b>	<b>669</b>	<b>95</b>	<b>101439</b>	<b>9768</b>	<b>111207</b>

(\*): Diploma level programmes under shift system are being conducted in 25 Polytechnic Colleges (14 Government, 2 Government Aided and 9 Self Financing) and 4 Engineering Colleges.

**TECHNICAL EDUCATION**  
**ANNEXURE – 4DETAILS OF ADMISSIONS TO FIRST YEAR B.E / B.TECH. / B.ARCH. DEGREE COURSES**  
**IN ENGINEERING COLLEGES FOR THE YEAR 2014-15**

TYPE OF INSTITUTIONS	No. of Institutions	Sanctioned Intake	OC		BC (Others)		BC (Muslim)		MBC / DNC		SC		SC (A)		ST		TOTAL		Total Admitted
			Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
Government	10	3760	78	61	934	668	83	45	511	353	262	206	57	35	30	8	1955	1376	3331
Govt. Aided	3	2880	229	130	902	633	54	26	316	205	177	137	40	21	15	3	1733	1155	2888
Self - Financing	546	278862	12010	4856	44304	25401	4988	1549	22931	9852	16186	8807	1670	960	540	211	102629	51636	154265
Anna University (Constituent Colleges)	17	8220	178	167	1559	1416	192	103	966	779	515	481	114	72	35	21	3559	3039	6598
<b>TOTAL</b>	<b>576</b>	<b>293722</b>	<b>12495</b>	<b>5214</b>	<b>47699</b>	<b>28118</b>	<b>5317</b>	<b>1723</b>	<b>24724</b>	<b>11189</b>	<b>17140</b>	<b>9631</b>	<b>1881</b>	<b>1088</b>	<b>620</b>	<b>243</b>	<b>109876</b>	<b>57206</b>	<b>167082</b>

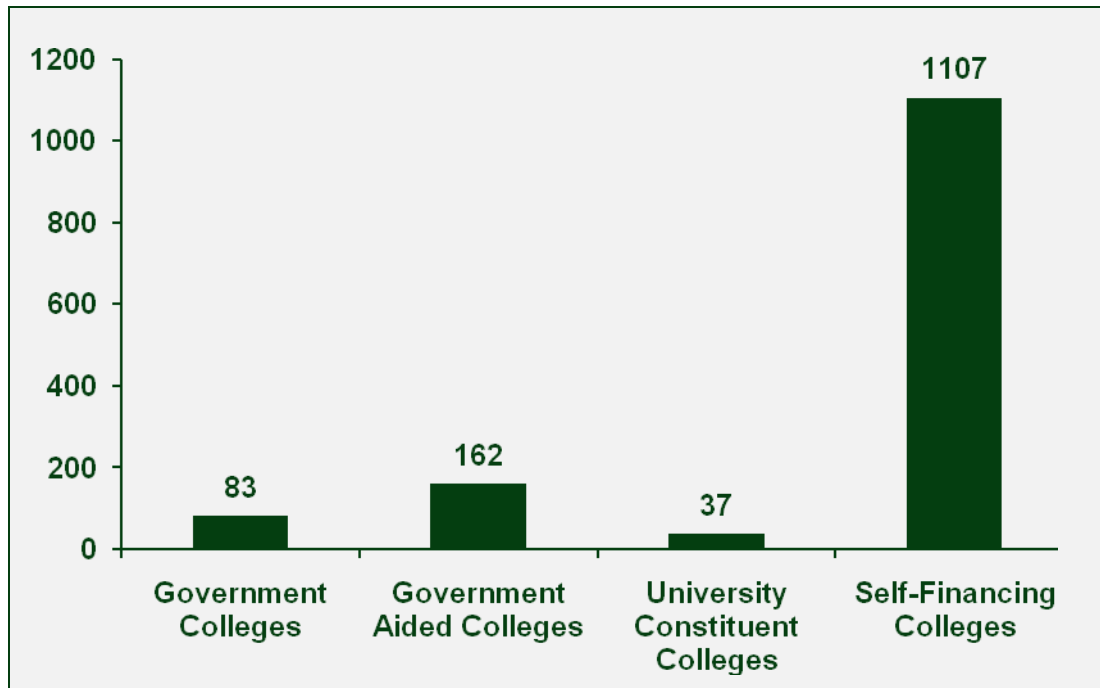
**UNIVERSITIES**  
**ANNEXURE - 5NO. OF STUDENTS STUDYING IN THE UNIVERSITY CAMPUS**  
**2014-15**

Sl. No.	Name of the University	Student Strength	
		Male	Female
1	University of Madras, Chennai.	1056	1286
2	Annamalai University, Annamalai Nagar.	19670	10543
3	Madurai Kamaraj University, Madurai.	524	465
4	Bharathidasan University, Tiruchirappalli.	830	1052
5	Bharathiar University, Coimbatore.	1224	1726
6	Mother Teresa Women's University, Kodaikanal.	-	1921
7	Alagappa University, Karaikudi.	713	1633
8	Manonmaniam Sundaranar University, Tirunelveli.	325	717
9	Periyar University, Salem.	609	912
10	Thiruvalluvar University, Vellore.	203	277
11	Tamil Nadu Open University, Chennai.	108	77
12	Tamil Nadu Teachers Education University, Chennai.	43	24
13	Anna University, Chennai.	8877	5808
<b>TOTAL</b>		<b>34,182</b>	<b>26,441</b>
<b>GRAND TOTAL</b>		<b>60,623</b>	

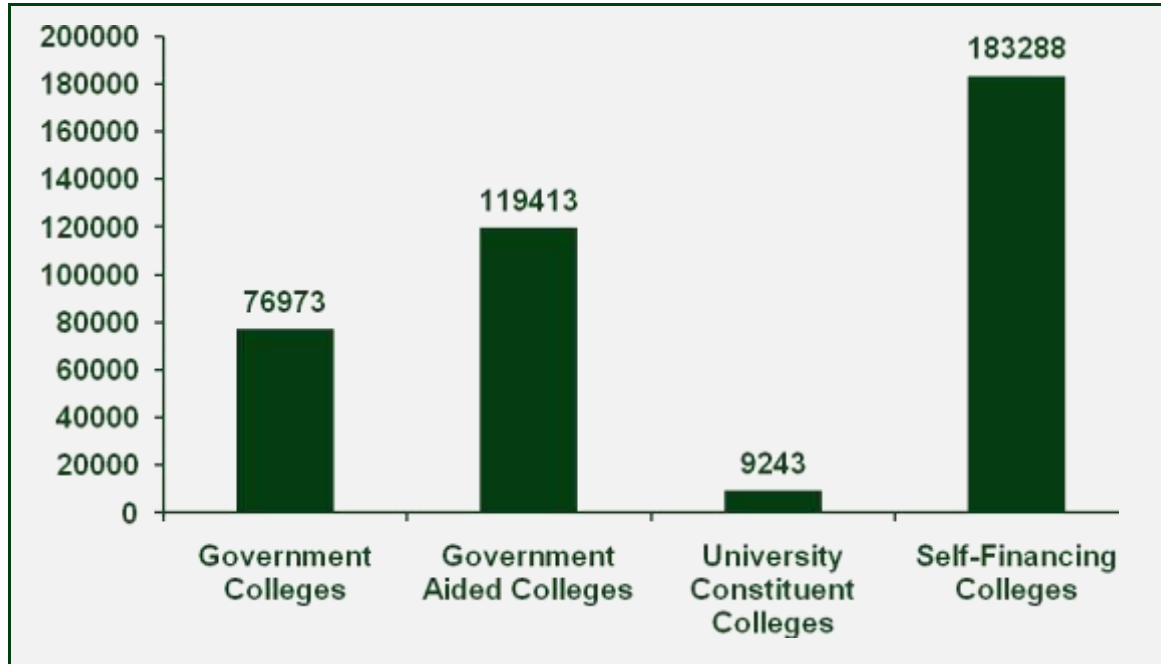
**UNIVERSITIES**  
**NO. OF STUDENTS STUDYING IN THE DISTANCE EDUCATION 2014-15**

Sl. No	Name of the University	Student Strength	
		Male	Female
1	University of Madras, Chennai.	35268	46421
2	Annamalai University, Annamalai Nagar.	49044	63835
3	Madurai Kamaraj University, Madurai.	34964	28872
4	Bharathidasan University, Tiruchirappalli.	4799	5804
5	Bharathiar University, Coimbatore.	44597	42018
6	Mother Teresa Women's University, Kodaikanal.	-	1310
7	Alagappa University, Karaikudi.	40858	44421
8	Manonmaniam Sundaranar University, Tirunelveli.	13873	14074
9	Periyar University, Salem.	1825	2675
10	Thiruvalluvar University, Vellore.	181	335
11	Tamil Nadu Open University, Chennai.	11052	10061
12	Tamil Nadu Teachers Education University, Chennai.	-	-
13	Anna University, Chennai.	2218	2011
<b>TOTAL</b>		<b>2,38,679</b>	<b>2,61,837</b>
<b>GRAND TOTAL</b>		<b>5,00,516</b>	

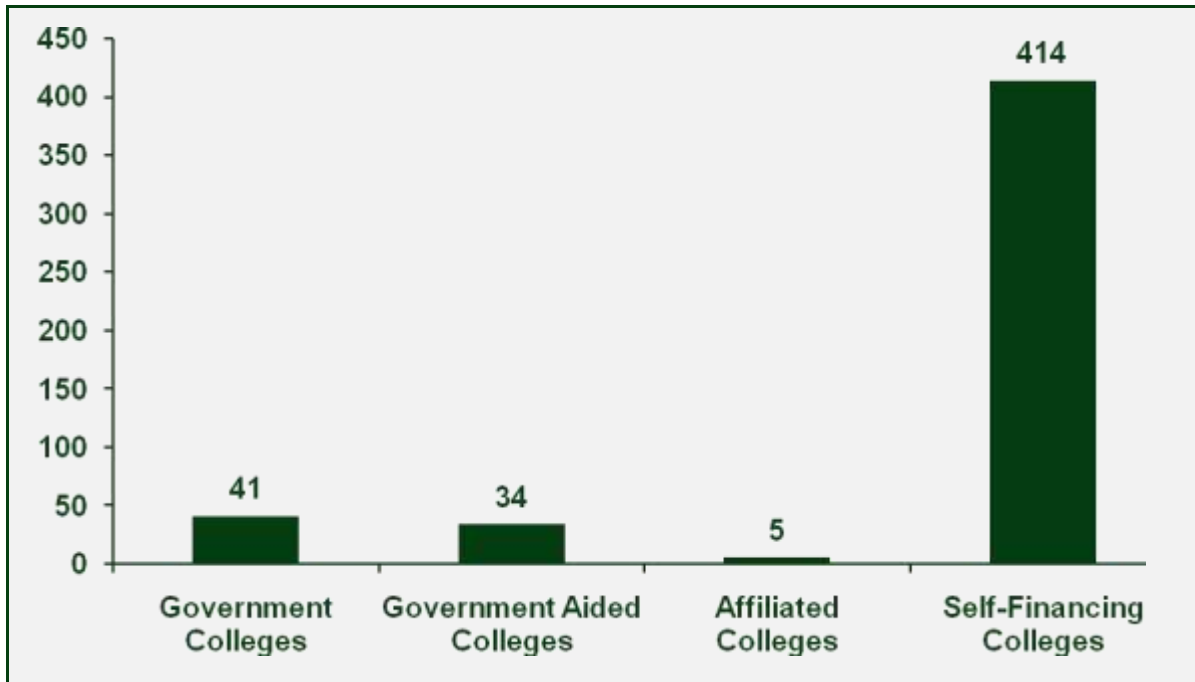
**COLLEGIATE EDUCATION  
NUMBER OF ARTS AND SCIENCE COLLEGES AND COLLEGES OF EDUCATION IN  
TAMIL NADU DURING 2014 – 15**



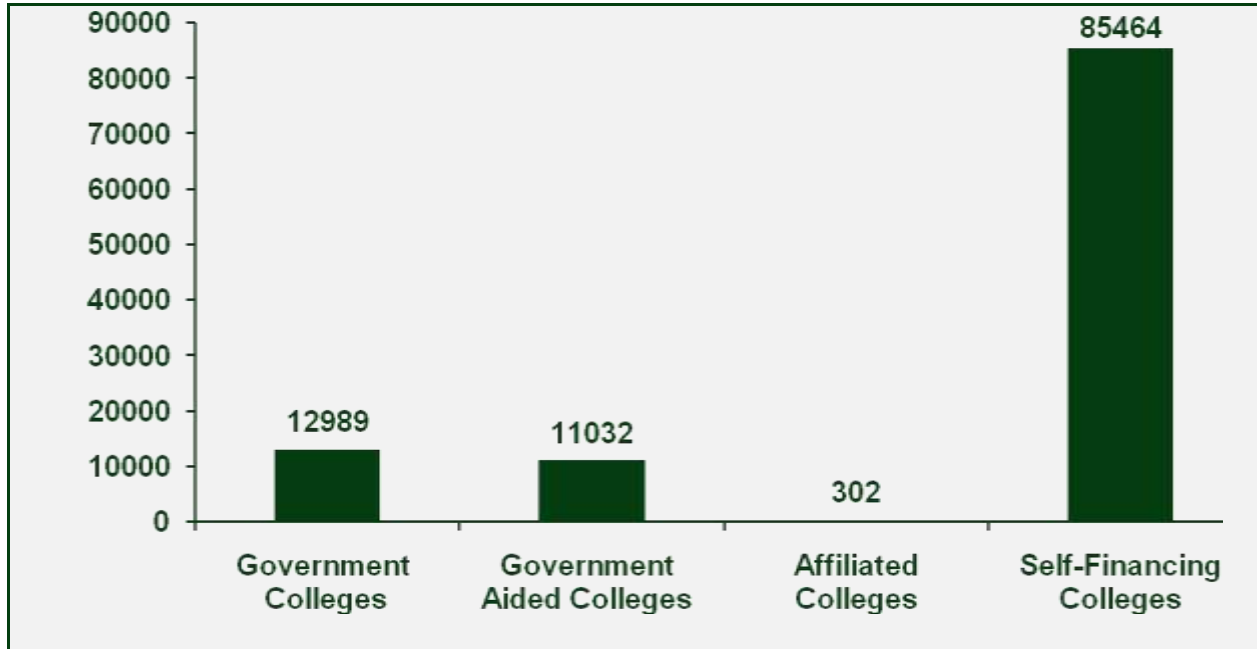
**COLLEGIATE EDUCATION  
NUMBER OF STUDENTS IN ARTS AND SCIENCE COLLEGES AND COLLEGES OF EDUCATION  
IN TAMIL NADU DURING 2014-15**



**TECHNICAL EDUCATION  
NUMBER OF POLYTECHNIC COLLEGES IN TAMIL NADU  
DURING 2014 - 15**

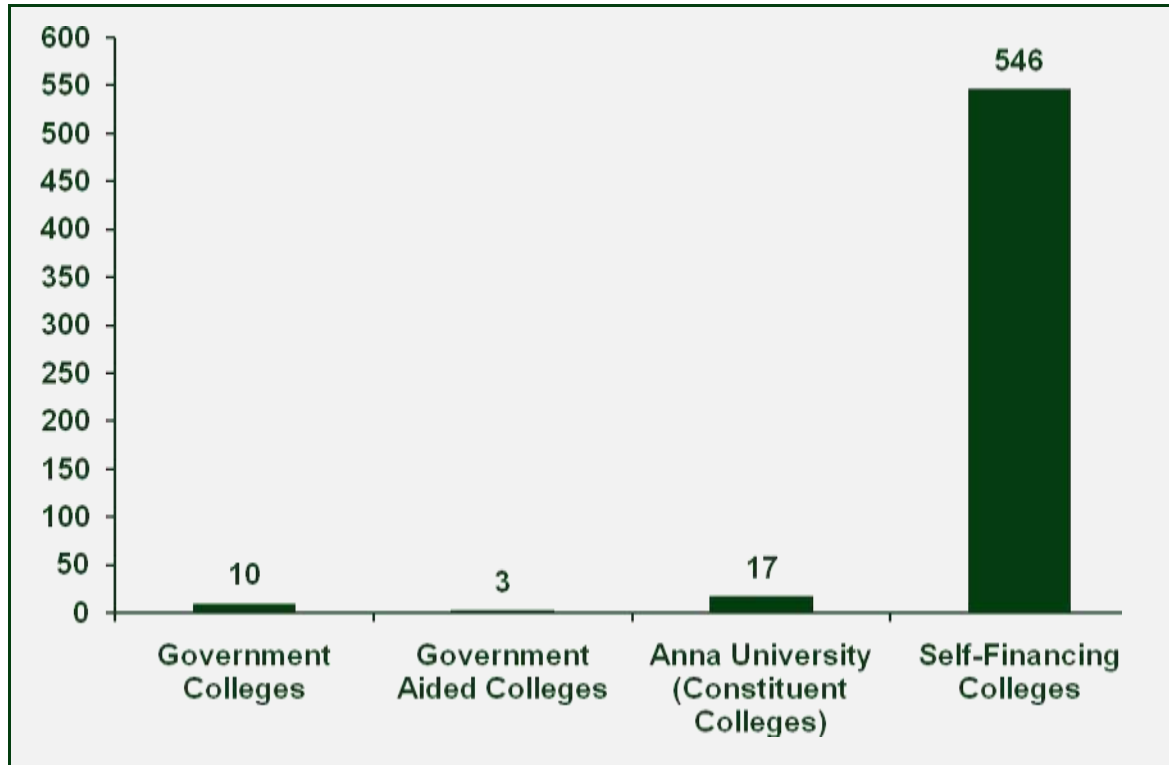


**TECHNICAL EDUCATION**  
**NUMBER OF STUDENTS ADMITTED in POLYTECHNIC COLLEGES IN**  
**TAMIL NADU DURING 2014 - 15**





**TECHNICAL EDUCATION  
NUMBER OF ENGINEERING COLLEGES IN TAMIL NADU  
DURING 2014-15**



**TECHNICAL EDUCATION  
NUMBER OF STUDENTS ADMITTED IN ENGINEERING COLLEGES IN  
TAMIL NADU DURING 2014-15**

