



HIGHER EDUCATION DEPARTMENT

POLICY NOTE 2022 - 2023

DEMAND No. 20

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MINISTER FOR HIGHER EDUCATION

©
Government of Tamil Nadu
2022

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POLICY NOTE

DEMAND NO.20 – HIGHER EDUCATION

2022-23

**“The more you dig a sand-spring,
more the flow; the more you learn,
more the wisdom”**

(Thirukkural 396)

1. Introduction

The Government of Tamil Nadu being egalitarian envisions a system of higher education that is people-centric and strategically endeavors to ensure that all dimensions of higher education reach every strata of society. To this end, resources are allocated to augment enrolment, teaching-learning, scientific research, training and technological advancements. The implementation mechanism ensures efficient delivery with specific outcomes.

1.1. EDUCATION, EXPANSION AND EXCELLENCE

The wide range of higher education institutions in Tamil Nadu has propelled the State to a significant position in the country actively seeking new avenues in research, innovation, development, skill-based training and technology through its multipronged commitment to equity, accessibility, affordability and employability.

1.1.1. The Government aspires to make higher education institutions as a hub for innovation, excellence and development. The Government endeavors to propel quality education on par with globally reputed institutions to the students of Tamil Nadu who hail from rural backgrounds and marginalized families. The aim of higher education is to identify, recognize and improvise the talent of the youth so as to enable them to face the emerging challenges.

1.1.2. The schemes of the State are focused on fulfilling the aspirations of the youth obviating socio-economic impediments and maintaining standards as per global benchmarks. The State produces highly qualified skilled workforce to fulfill the requirements of the Nation and the World at large. It also open doors for the youth to become successful entrepreneurs.

1.1.3. The goal-driven approach has secured place of pride for Tamil Nadu in the national scenario with a Gross Enrolment Ratio (GER) of 51.4 against the national average of 27.1. It is noteworthy that the GER of Scheduled Caste men and women is 38.8 and 40.4, while that of Scheduled Tribe men and women is 43.8 and 37.7 respectively, which is almost double the national average.

1.1.4. In the All India Survey of Higher Education (AISHE) 2021 report, various excelling parameters of Tamil Nadu feature prominently on

account of its achievement in relation to GER (51.4), Gender Parity Index (1.0), category-wise enrolment, women vs men enrolment, number of higher education institutions, teacher-student ratio, enrolment in research and many other parameters.

1.1.5. Tamil Nadu has consistently performed well in NIRF, having 19 institutions in the overall category, 19 institutions in the university category with Anna University emerging at the top among Tamil Nadu State Universities, 33 institutions in the Arts and Science category are within the top 100 ranks, 36 technical institutions are within top 200 ranks.

1.2. WELFARE SCHEMES

The State is a forerunner in upholding social empowerment and social justice. Welfare schemes implemented in higher education testify to the holistic development of the students from

marginalized sections of the society. Among the numerous welfare measures, a few prominent ones are providing free of cost textbooks, laptops, bus pass, fee exemption for undergraduate and post-graduate Arts and Science programmes, tuition fee concession for first graduate Engineering students, financial assistance of Rs.50,000/- under CMPRF for Engineering students, providing 7.5% seats on preferential basis to Government school students in Engineering colleges along with waiver of course fee, hostel fee and transportation fee.

Further, the Government in the Budget Speech, 2022-23 has announced that the State will bear the entire cost for UG students getting admitted in prestigious Institutions like IIT, IISc, IIM etc.,

1.3. GENDER PARITY

Dravidian ideology being the legacy of Tamil Nadu, the State adopts progressive measures in addressing concerns of the girl child and bridging the gender gap in the society. The Government have announced a path breaking scheme **Moovalur Ramamirtham Ammaiyar Higher Education Assurance Scheme** through which all girl students who study classes 6 to 12 in Government Schools and enter into higher education will be given a grant of Rs.1,000/- per month directly transferred into their bank accounts till the uninterrupted completion of under graduate degree, diploma or ITI courses. In addition to other scholarships and welfare schemes, the girl beneficiaries will be eligible for the aforementioned monthly grant.

1.4. RESTRUCTURING OF CURRICULUM

Revamping of the curriculum of Engineering, Polytechnic and Arts and Science courses in

consultation with the corporates, universities and industry partners in tune with the latest technological advancements and industrial requirements is one of the proactive measures taken by this department. It is proposed to revamp and enhance the syllabus for upskilling to meet the demands of the job market, incorporate topics to fulfill industrial requirements and create better prospects for employment. The department is striving to enhance the academic standards on par with those at the international arena.

To take inputs from the leading experts of industries a “Brainstorming Meet to Develop an Industry Aligned curriculum” was conducted on 17.03.2022 at Anna University campus. Representatives of more than 100 industries from large scale and MSME sector participated, besides the eminent academicians, Alumni and students. The workshop helped to identify relevant courses under different verticals for various disciplines of Engineering and Technology programmes.

Further, it was announced in the Budget speech 2022-23, that the Universities in the State will be encouraged to setup research parks in their campuses in collaboration with the Public Sector entities like TIDCO, SIPCOT and TANSIDCO.

1.5. KNOWLEDGE CITY

The Government with an intention of propelling quality Education and attracting International talent-pool has announced the establishment of a Knowledge City. It primarily focuses on the development of knowledge based economy with world class infrastructure and market oriented courses.

1.6. SUSTAINABLE DEVELOPMENT GOAL INITIATIVES

Tamil Nadu State universities align their programme objectives with the sustainable development goals in curriculum, research, innovations, co-curricular and extracurricular

activities. The Tamil Nadu State Council for Higher Education facilitates quality enhancement through its advisory role, training programmes, faculty development programmes, and policy making initiatives.

The Government of Tamil Nadu have planned for intensive structural reforms to create a knowledge society that is mandated to transform the state into a knowledge economy.

BUDGET ESTIMATE FOR THE YEAR 2022 - 23

Under Demand No.20 Higher Education, the Total
Outlay: Rs.5668.88 crore.

Sl. No.	Head of Department	Amount Allotted (Rs. in crore)
1.	Higher Education Department, Secretariat	7.20
2.	Directorate of Collegiate Education	3259.43
3.	Directorate of Technical Education	1552.44
4.	Universities	698.18
5.	Tamil Nadu Archives	15.65
6.	Tamil Nadu State Council for Science and Technology	3.89
7.	Tamil Nadu Science and Technology Centre	5.79
8.	Science City	1.69
9.	Tamil Nadu State Council for Higher Education	124.24
10.	Tamil Nadu State Council for Technical Education	0.37
	Total	5668.88

2. TECHNICAL EDUCATION

2.1. INTRODUCTION

Technical Education plays a pivotal role in the economic development of the State accelerating the momentum in tune with the global demands. The vibrant interface between institution and industry as well as industry and society ensures that the State is equipped with skilled manpower and efficient technocrats. Wide streams of programmes in engineering, technology, management, architecture, town planning, hotel management and catering technology which are offered as Diploma and Degree level programmes are covered under the aegis of Higher Education Department. Responding to the requirements of industry and modernization, technical education has evolved to enable the stakeholders to possess technical as well as entrepreneurial skills. Innovative plans are being designed by the Government to make the

youth of the State self-reliant and take up innovative projects that address real life social issues of the State.

The Directorate of Technical Education was established on 14th October 1957, with the primary objective of development of technical education in the State. The department monitors and coordinates the entire academic and related activities which includes streamlining the standards of education, introduction of new courses, design of curriculum, revision of syllabi and course content, guidance for internship and placement, inculcates and promotes research activities imparting employability skills and training to strengthen the linkage between academia, industries and R & D organizations.

The Directorate conducts Government Technical Examinations in Type-writing, Shorthand, Accountancy and Certificate course in Computer on Office Automation.

The State has a large number of technical institutions at Degree and Diploma level as indicated below:

NUMBER OF TECHNICAL INSTITUTIONS IN TAMIL NADU 2021-22 (as on date)				
Category	Degree Level Colleges	Diploma Level Colleges		Total
	Engineering and Architecture Colleges	Polytechnic Colleges	Hotel Management and Catering Institutions	
Government Colleges	11	51	-	62
Government Aided Colleges	3	34	-	37
Self Financing Colleges	539	406	14	959
Affiliated Type Colleges	-	4	-	4
Anna University Colleges	20	-	-	20
TOTAL	573	509		1082

2.2. INSTITUTIONS AND COURSES IN THE GOVERNMENT

2.2.1. TECHNICAL INSTITUTIONS

Engineering Colleges were established with the aim of providing quality higher education on par with international standards in the technological front to produce a dynamic community of graduates and scholars. Apart from diligent faculty, engineering colleges in Tamil Nadu provide a pleasant ambience for learning, with well-equipped infrastructure, spacious rooms for practical training and a conducive environment for intellectual fulfilment and free thinking for moulding the student community. Institute of Road and Transport Technology (IRTT), Erode was converted into Government College of Engineering from the academic year 2021-22, to the benefit of the student community. 15,892 students are enrolled in Under Graduate programmes in 11 Government Engineering Colleges, 701 Post Graduate students in seven Government

Engineering Colleges and 509 research scholars are studying Ph.D. in Government institutions.

There are 51 Government Polytechnic Colleges under the Directorate, with a current student enrolment of 42,479. Industries prefer to employ diploma holders for special skills in reading and interpreting drawings, estimating, costing & billing, supervision, measurement, testing, repair, maintenance etc. Polytechnics offer three-year diploma courses in disciplines such as Civil, Electrical, Mechanical, Electronics, Computer Science, Medical Lab technology, Instrumentation & Control, Architectural Assistantship, Leather Technology, Textile Technology etc., Diploma programmes are offered exclusively for women in Women's Polytechnic Colleges. The focus of the polytechnic education is to create a pool of skill-based manpower to support floor and field operations of the industries / firms as an intermediate link between technicians and engineers.

2.2.2. TECHNICAL COURSES

The technical courses are designed and updated periodically so as to lay a strong foundation in the fundamentals of engineering. The training given instils confidence and a desire to learn with clear understanding and facilitates a platform for making the right career choices and equips students to successfully overcome challenges which they are likely to encounter in their professional lives. There are 102 Diploma Courses offered in Polytechnic Colleges, 11 undergraduate Engineering Courses in 11 Government Engineering Colleges and 17 postgraduate Engineering Courses in seven Government Engineering Colleges.

2.3. WELFARE SCHEMES AND INITIATIVES

2.3.1. 7.5% SEATS ON PREFERENTIAL BASIS TO GOVERNMENT SCHOOL STUDENTS IN ENGINEERING COLLEGES.

“The Tamil Nadu Admission to Undergraduate professional courses on preferential basis to students of Government Schools Act, 2021” was enacted in order to take affirmative action to bring about equality between students studying in Government schools and private schools. The Hon’ble Chief Minister of Tamil Nadu had announced that entire fees such as Tuition Fee, Hostel Fee, Transportation Fee etc. would be borne by the Government for these students admitted under this Act. In this regard, the Government has sanctioned a sum of Rs.74.28 crore towards the expenditure for the academic year 2021-22. 7,876 Government School Students have been admitted in Engineering Colleges, of which, 161 Government

school students have secured admission in Anna University Departments under 7.5 % internal allocation.

2.3.2. INTENSIVE COACHING FOR COMPETITIVE EXAMINATIONS

The Government has sanctioned a sum of Rs.42.12 lakh as recurring expenditure for providing intensive coaching for 500 students in 10 Government Engineering Colleges for competitive examinations CAT/GMAT/GRE and IELTS/TOEFL from the year 2021-22. The intensive coaching would not only enable the students to succeed in these competitive examinations, but also enhance their employment opportunities with reputed firms at the National and International level.

2.3.3. TEACHING FOREIGN LANGUAGE COURSES TO FINAL YEAR ENGINEERING STUDENTS

With a view to enhance the employability skills and career opportunities abroad, the Government has introduced teaching foreign languages such as German, Japanese, French and Chinese to the final year students of Government Engineering Colleges in collaboration with Tamil Nadu Skill Development Corporation.

2.3.4. INTRODUCTION OF DIPLOMA COURSES IN TAMIL MEDIUM

The Government has introduced diploma in Civil Engineering and Diploma in Mechanical Engineering in Tamil Medium in Central Polytechnic College, Chennai and Government Polytechnic Colleges at Coimbatore, Madurai, Tiruchirappalli and Nagercoil from the year 2022-23. Thereby, the students will be able to clearly understand the concepts and applications better in Tamil. Also this would help the students

to avail the benefits of reservation under Persons Studying in Tamil Medium (PSTM) category for State Government jobs.

2.3.5. INTRODUCTION OF WOMEN FRIENDLY DIPLOMA COURSES

Women friendly diploma courses will be introduced from the academic year 2022-23 in the following Colleges with a view to increase the women enrolment in Polytechnic Colleges and also motivate them to take up Higher studies for better employment opportunities: (1) Mechanical Engineering (CAD) in Central Polytechnic College at Chennai (2) Office Management and Computer Application in State Institute of Commerce Education at Chennai (3) ECG Technology in Government Polytechnic College at Coimbatore (4) Web Technologies in Tamil Nadu Polytechnic College at Madurai (5) Bio-Medical Electronics in Government Polytechnic College at Nagercoil and (6) Interior Decoration in Dr. Dharmambal

Government Polytechnic College for Women,
Chennai.

2.3.6. SMART CLASS ROOMS IN GOVERNMENT POLYTECHNIC COLLEGES

Well-equipped infrastructure with technically advanced class rooms are supplementary requirements for imparting quality education. In this context, Smart Class Rooms are being established in 50 Government Polytechnic Colleges at a cost of Rs. 10 crore during the year 2021-22. This will help to incorporate the knowledge gained from text and theoretical content into real life applications and learning. Software and simulation contents like cyber security training, gas cutting process training, fork lift training, lean manufacturing, construction safety, gearbox, power generator etc. are also being provided through these smart classes.

2.3.7. ADD ON COURSES FOR GOVERNMENT POLYTECHNIC COLLEGE STUDENTS

The Government recognizes the need for enhancing the skills of the students to match with the industrial requirements and create better job opportunities. Industry need based add on courses for the final year students at a cost of Rs.3.00 crore for Government Polytechnic Colleges with a view to enhance the employability skills and working knowledge are being conducted from the year 2021-22 in collaboration with Tamil Nadu Skill Development Corporation. The details of courses are given below:

Add on Course	No. of beneficiary Students
Mechanical Engineering CNC Operator Machining Technician Level 3 - 320 Hours	1200
Electrical and Electronics Engineering Electrical Assembly Operator – Control Panel - 200 Hours	900
Electronics and Communication Engineering PLC Assembly Operator - 200 Hours	900

2.3.8. ESTABLISHMENT OF ENTREPRENEURSHIP DEVELOPMENT HUBS FOR POLYTECHNIC COLLEGES

The Directorate of Technical Education in the year 2021-22 has established Entrepreneurship Development hubs in five regions viz., Chennai, Vellore, Tiruchirappalli, Coimbatore and Thoothukudi in association with Entrepreneurship Development and Innovation Institute (EDII) covering 457 Polytechnic Colleges. So far, Management Training for all the Principals, Faculty Development Training (FDP), three days E-Leader Workshop for students were given. 950 innovative ideas have been registered by the students for ideation process and the shortlisted students will be selected for ideation camp. The main objective of the hub shall be to provide early exposure to entrepreneurship and start-up culture among the young students.

2.3.9. LATERAL ENTRY TO B.Com. COURSE

In order to enhance the Gross Enrolment Ratio in diploma level courses and also to motivate these students to get enrolled for their higher studies, the Government in the year 2021-22 has introduced lateral entry facility for students with Diploma in commercial practice / Diploma in modern office practice. These students will be eligible for lateral entry admission to all branches of UG Commerce Programme including Corporate Secretaryship offered by all State Universities in Tamil Nadu from the academic year 2022-23.

2.3.10. FIRST GENERATION GRADUATE TUITION FEE CONCESSION

The First-Generation Graduate Scholarship scheme was started with the objective of promoting higher education among the families where no member is a graduate. The State Government will bear the entire tuition fee of such

students who secure admission to professional courses under the single window system. The scholarship is given to the students irrespective of their caste and income. In the academic year 2021-22, 1,11,038 students have been provided tuition fees concession to the tune of Rs.266.60 crore as on 28.2.2022.

2.3.11. FACILITIES EXTENDED TO SRILANKAN TAMIL REFUGEES

The students of Sri Lankan Tamil refugees in Tamil Nadu have been permitted to participate in the counselling for admission to first year and second year lateral entry B.E./B.Tech. and Post Graduate courses viz., MBA / MCA / M.E. / M. Tech. The 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 students of SriLankan Tamil refugees.

In the academic year 2021-22, 33 students have been admitted.

2.3.12. WAIVER OF TUITION FEES FOR DIPLOMA STUDENTS

Most of the students taking up Diploma courses are from socially and economically backward sections. In order to motivate the students hailing from these sections, the Government has waived Tuition Fees for Diploma students studying in Government Polytechnic Colleges from the academic year 2008-09. In the academic year 2021-22, 42,479 students have been benefitted under this scheme.

2.3.13. ISSUE OF FREE TEXT BOOKS

In order to increase the enrolment in Polytechnic Colleges and help the polytechnic students to excel in their studies, free text books are being distributed to all the First year Diploma students of Government Polytechnic Colleges from the academic year 2007-08. Under this scheme,

the books are being distributed free of cost in the subjects of English, Engineering Physics, Engineering Chemistry and Engineering Mathematics. In the academic year 2021-22, 11,839 students have been benefitted through an expenditure of Rs.37.97 lakh.

2.3.14. SHIFT SYSTEM IN GOVERNMENT POLYTECHNIC COLLEGES

The Government have issued orders to implement the shift system in 14 Government Polytechnic Colleges from the academic year 2009-10 with an additional sanctioned intake of 3,360 to encourage diploma education among students of economically weaker sections, hailing from rural areas. 2,081 students have been benefitted in the academic year 2021-22.

2.3.15. ISSUE OF FREE BUS PASS

The issue of free bus pass scheme to all the diploma students studying in Government Polytechnic Colleges was introduced from the

academic year 2007-08 to facilitate students to reach the Institutions without any financial burden. 41,978 students have been benefited in the academic year 2021-22.

2.3.16. ESTABLISHMENT OF FAB LAB / MAKERS SPACE

To provide a forum for students and faculty members to apply personalized learning strategies and inherent skills and for promoting creative ideas with practical knowledge, Makers Space is being established with industry partners in four Government Engineering Colleges at Karaikudi, Tiruchirappalli, Tirunelveli, Salem and Tamil Nadu Polytechnic College at Madurai.

2.3.17. FINANCIAL ASSISTANCE FROM CHIEF MINISTER'S PUBLIC RELIEF FUND

The Government provides a financial support of Rs.50,000/- as assistance to the meritorious students of the economically weaker

section for pursuing Engineering courses viz. B.E./B.Tech. The students availing first generation graduate tuition fee waiver are also eligible for this financial assistance.

2.3.18. POST GRADUATE ASSISTANTSHIP SCHEME

The number of students availing Post Graduate Assistantship in Engineering Colleges has been increased from 600 to 1200 from the academic year 2021-22 onwards. First top 300 TANCET scorers admitted in Government Engineering Colleges, Government Aided Engineering Colleges, University Departments of Anna University and Anna University Constituent Colleges will be selected under this scheme, to get the assistantship of Rs. 6,000/- per month and then, next top 300 TANCET scorers admitted in Government Engineering Colleges only will be selected for this scheme. The Government has sanctioned Rs.8.64 crore for this scheme.

2.3.19. POST MATRIC SCHOLARSHIP SCHEME FOR SC/ST STUDENTS

Post Matric Scholarship Scheme was introduced with the objective to increase the Gross Enrolment Ratio of Adi-Dravidar students in higher education with the focus on those from the poorest households and downtrodden. All compulsory and non-refundable fees fixed by the Fee Fixation Committee are paid for the Engineering and Diploma students admitted under the Government / Management Quota in Self Financing Institutions including minority institutions. Academic allowance is also paid to the students. During the last academic year, Rs.490.29 crore has been provided as scholarship for 73,012 Engineering College students and Rs.178.70 crore has been provided as scholarship for 49,117 Polytechnic College students.

2.3.20. DISTRIBUTION OF FREE OF COST LAPTOPS

The Scheme of distribution of free of cost laptop computers was introduced by the Government of Tamil Nadu for the students of Government and Government Aided Schools and Colleges to enable them to acquire better computing skills and using e-resources. The students, who joined Government and Government Aided Polytechnic Colleges are benefitted under this scheme.

2.4. e-GOVERNANCE

2.4.1. TAMIL NADU ENGINEERING ADMISSION 2021

Tamil Nadu Engineering Admission is being conducted by the Directorate of Technical Education from the academic year 2019-20. Due to COVID-19, all the activities related to admission such as registration of applications, uploading of certificates, certificate verification,

assigning random numbers to the registered students, release of rank list, counseling for special category, general counseling, vocational counseling, supplementary counseling, SCA to SC counselling, publication of provisional allotment were conducted through ONLINE mode from the academic year 2020-21. In similar lines, TNEA 2021 was also done completely online. 78,490 students were admitted under Government quota.

Also, first year admission to B. Arch., Lateral entry and Part time admission to B.E./B.Tech, First year admission to MBA/MCA courses, first year / Lateral entry / Part Time admission to Government Polytechnic Colleges were conducted through ONLINE mode for the academic year 2021-22.

2.4.2. ESTABLISHMENT OF LEARNING MANAGEMENT SYSTEM INTEGRATED WITH AN ENTERPRISE RESOURCE PLANNING SOFTWARE (LMS & ERP)

Learning Management System integrated with an Enterprise Resource Planning Software (LMS & ERP) shall be established in all Higher Educational Institutions in order to formulate the policies, laws, regulations and provide various programmes based on the needs of the society and for achieving the goals of the Government in the field of Higher Education in Tamil Nadu. In this regard, the Government has sanctioned a sum of Rs.4.09 crore in the year 2021-22 towards engaging Project Management Consultant as Resource cost for the implementation of the project and Design, Selection and Roll-out of a Learning Management System integrated with Enterprise Resource Planning Solution in the State of Tamil Nadu.

2.4.3. VIDEO CONFERENCING CENTRE

The Video Conferencing Centre at the Directorate of Technical Education caters the growing digital educational requirements. Lectures are being delivered by eminent professionals in various engineering disciplines for the benefit of students. Further the Directorate also utilizes this facility to monitor the activities of the colleges under its purview.

2.4.4. SOFTWARE TRAINING TO DIPLOMA STUDENTS

During the year 2021-22, a Memorandum of Agreement was signed between Directorate of Technical Education and Spoken Tutorial Project of IIT Bombay for one year from October 2021 to September 2022 for giving Software Training to the students of all 51 Government Polytechnic Colleges in order to improve the technical skills and thereby enhance their job opportunities. 21,343 students have enrolled and completed the

Software Training in subjects like Python 3.4.3, Arduino, Q-CAD, ScilabLibre office suite etc.

2.5 INFRASTRUCTURE

2.5.1. CONSTRUCTION OF ADDITIONAL HOSTEL BUILDINGS IN GOVERNMENT ENGINEERING COLLEGES

Considering the growing demand for additional hostel buildings and to provide a proper ambience with adequate space for the students, the Government sanctioned a sum of Rs.34.10 crore during the year 2021-22 for the construction of additional Hostel Buildings in 4 Government Engineering Colleges at Coimbatore, Salem, Karaikudi, Vellore.

3. COLLEGIATE EDUCATION

3.1. The erstwhile Directorate of Public Instruction was bifurcated into Directorate of School Education and Directorate of Collegiate Education in the year 1965 with the primary objective of exclusively administering the Collegiate Education. The present Government is taking effective steps to bring Tamil Nadu to the forefront, as the most advanced State in the field of Higher Education and a much sought-after destination by introducing innovative programmes, in varied streams, such as Humanities, Science and Technology etc. At present, 907 Arts and Science Colleges, 11 Physical Education Colleges, Four Oriental Colleges, Two Schools of Social Work and 649 Colleges of Education totaling 1,573 Colleges are functioning under the aegis of Directorate of Collegiate Education.

3.2. GROSS ENROLMENT RATIO (GER)

Due to the proactive and constructive measures taken up by the Government of Tamil Nadu, the GER of the State of Tamil Nadu has increased to 51.4 as against the National average of 27.1. Introduction of the Shift system in Government Arts and Science colleges during the year 2006-07 has played a pivotal role in the increase of GER of the State over the years. To keep in pace and sustain the momentum for up-scaling the GER, the Government intends to start more colleges and new courses in line with the current trends and industrial requirements.

3.3. HOLISTIC EDUCATION

Imparting quality Higher Education is the foremost priority and an essential entity to bring social and economic changes into the lives of the poor and marginalized sectors of the society. This is achieved by the continued efforts of the Government in protecting the interests of the

economically and socially backward strata of the society by providing easy access to quality Higher Education through Government and Government Aided institutions, in a holistic manner.

3.4. B.Com. and B.C.A COURSES FOR HEARING IMPAIRED

The most distinctive feature of the Presidency College, a 181 years old prestigious institution, is its inclusivity. During the year 2007, the then Hon'ble Chief Minister of Tamil Nadu Dr. Kalaignar has announced that B.Com (HI) and B.C.A.(HI) Courses would be started in Presidency College and accordingly these two special courses have been started. At present, 175 Hearing Impaired (HI) students are studying their Higher Education by utilizing the infrastructure facilities developed for this purpose.

Recognizing the services to the Hearing Impaired (HI) students, the Hon'ble Chief Minister of Tamil Nadu has presented the College

with “Best Practices Award” during the Independence Day Celebrations on 15th August 2021.

3.5. BHARATHI YOUNG POET AWARD

The Government of Tamil Nadu is committed to honour the Great sons of this State. In commemoration with Mahakavi Bharathi’s Centenary Memorial Celebration the Hon’ble Chief Minister has announced to conduct a State Level Poetry Competition for College students and award the title “Bharathi-Young Poet” with cash Prize of Rs.1.00 lakh each for a male and a female student.

District level poetry competitions will be organized before August 2022; subsequently, State level competition will be conducted during August 2022. Bharathi Young Poet award will be conferred in September 2022. The Award will be presented every year starting from this year.

3.6. WOMEN EMPOWERMENT THROUGH HIGHER EDUCATION

The Government is incorporating motivational drives and beneficial schemes to encourage and to rope in more women into the Higher Education fold. This enables women to scale greater heights in the society and attain economic independence. Opening of new colleges for women provides a platform to reduce the number of dropouts among women students and helps to achieve the vision of women empowerment.

With a view of encouraging women to take up administrative jobs in the Government, free coaching is provided at Queen Mary's College, Chennai and Arulmigu Meenakshi Government Arts College for Women, Madurai for women candidates appearing in All India Civil Services and Central Services Examinations.

3.7. FREE BUS PASS TO THE COLLEGE STUDENTS

The Government is offering free bus pass to all Government College students since the academic year 2007-08. Free bus passes are issued through the colleges concerned to the students based on the applications received. During the academic year 2021-22, a total number of 1,39,446 students have been benefitted under the free bus pass scheme.

3.8. FREE EDUCATION

The Government has waived the payment of Tuition Fees for all the students studying Under Graduate courses in Government and Government Aided Arts and Science Colleges from the academic year 2007-08. The tuition fee has also been waived for all the students studying PG courses in Government Colleges from the academic year 2010-11. Thereby, the financial

burden of the economically poor parents has been largely reduced.

3.9. STIPEND FOR TAMIL MEDIUM STUDENTS

In order to encourage the students studying in Tamil Medium, a scheme of awarding stipend was introduced during the year 1971-72 and is being continued every year. At present, a stipend of Rs.900/- per annum is provided to each student, who are pursuing Tamil medium course in Government and Government Aided Arts and Science Colleges. During the year 2021-22, the Government has allotted a sum of Rs.4.24 crore, benefiting 47,072 students.

3.10. SPECIAL COACHING FOR SC/ST AND MBC STUDENTS

The Students studying in Government Colleges, particularly in rural areas belonging to SC/ST and MBC communities find it difficult to get through the University examinations in English, Mathematics and Science subjects. With a view of

making the students fully conversant in these subjects, special coaching is being given by way of remedial classes after the class hours and also on weekends. This focused and specialized coaching will enable them to compete on par with the peer group and score higher marks in the University examination.

3.11. TRANSLATION OF TEXT BOOKS IN TAMIL

The Government has announced that, 100 text books will be translated into Tamil, in coordination with the Tamil Nadu Text Book and Educational Services Corporation so as to facilitate the students studying in Tamil Medium. The Tamil Nadu Text Book and Educational Services Corporation has identified the Translators and also allocated the translation work, subject wise. The Translation of text books is now under process and it is proposed to complete translation of 50 Text Books before June 2022.

3.12. PLACEMENT DRIVE

Job Fairs are being conducted in the Government and Government Aided Colleges under the aegis of the Directorate of Collegiate Education every year. Special efforts are being taken to help the students studying in Government Arts and Science Colleges to find jobs after completion of their course. In order to facilitate more employment opportunities to the student community, placement cell in the colleges have been revamped and enthusiastic teachers are placed as Placement officer in placement cells.

3.13. STIPEND TO RESEARCH SCHOLARS (Ph.D. Programme)

The post-graduate students from Government and Government Aided Arts and Science Colleges are motivated to take up research activities through this scheme. A stipend of Rs.60,000/- per annum per scholar is granted to Full-time Ph.D. Research Scholars. In the

academic year 2021-22, the Government have sanctioned a sum of Rs.1.65 crore, benefiting 275 Ph.D. Research Scholars.

3.14.STARTING OF Ph.D. COURSES IN 10 GOVERNMENT ARTS AND SCIENCE COLLEGES

To make the State of Tamil Nadu as a forerunner in the field of research, and encourage research studies and bring out the research aptitude of the students, the Government have ordered to start Ph.D. programmes in 10 Government Arts and Science Colleges in the disciplines of Tamil, Commerce, Botany, Information Technology, Zoology, Bio Chemistry, English, Physics and International Business. Enrolment of Students for Ph.D. programmes have commenced from the Academic Year 2021-22.

3.15.INTRODUCTION OF NEW UG COURSES IN GOVERNMENT ARTS AND SCIENCE COLLEGES

To enhance the GER and to provide more chances for Higher Education to the socially and economically backward students, the Government have started 4 new UG courses in Arignar Anna Government Arts College, Villupuram and 3 new UG courses in Government Arts College, Nandanam, Chennai from the Academic Year 2021-22.

3.16. ONLINE REGISTRATION IN ADMISSION

Online registration of Application forms for admission into Government Arts and Science Colleges has been facilitated to reduce the hassles, simplify the process and provide easy access even through smart phones. It enabled smooth, uninterrupted flow of admission process amidst the pandemic to the benefit of the student community. During the academic year 2021-22, a

total number of 5,70,601 applications were registered through the online portal.

3.17. e-GOVERNANCE

To ensure speedy and effective administration, high transparency, quick access to data, etc., the Government have sanctioned a sum of Rs.99.80 lakh under Phase I and Rs.1.32 crore under Phase II for e-Governance initiatives, Tamil Nadu e-Governance Agency is developing the software for office administration and integration of the Directorate with the Regional Joint Directorates and Colleges.

3.18. NEW GOVERNMENT ARTS AND SCIENCE COLLEGES

The Government has granted permission to start 10 new Government Arts and Science Colleges during the academic year 2022-23 with a view to increase the enrolment ratio of students and providing inclusive Higher Education in Tamil Nadu.

These 10 New Colleges include one new Women Government Arts and Science College at Koothanallur - Thiruvarur District and 9 Co-education Government Arts and Science Colleges at Tiruchuli- Virudhunagar District, Thirukoilur-Kallakurichi District, Thalavadi-Erode District, Ottanchatram-Dindigul District, Manur-Tirunelveli District, Dharapuram-Tiruppur District, Eriyur-Dharmapuri District, Alangudi-Pudukottai District and Serkadu-Vellore District. The Government has also sanctioned 17 Teaching posts and 17 Non-Teaching posts per college for first year, totaling 170 Teaching posts and 170 Non-Teaching posts and accorded administrative sanction for a sum of Rs.21.23 crore as recurring expenditure and a sum of Rs.3.60 crore as non-recurring expenditure for the year 2022-23.

3.19. CONSTRUCTION OF BUILDINGS TO NEWLY STARTED GOVERNMENT ARTS AND SCIENCE COLLEGES

During the academic year 2020-21, the Government has started 10 Government Arts and Science Colleges. Among them, the land for the construction of college buildings for Government Arts and Science Colleges at Sankarankoil in Tenkasi District, Jambukulam (Sholingar) in Ranipet District and Government Arts and Science College for Women at Alankulam in Tenkasi District have been identified and the Government have sanctioned a sum of Rs.33.99 crore during the financial year 2021-22, for construction of permanent buildings.

3.20. INFRASTRUCTURE IMPROVEMENT IN GOVERNMENT ARTS AND SCIENCE COLLEGES

3.20.1. In order to improve the academic ambience for the students studying in 48 Government Arts and Science Colleges, the

Government have sanctioned a sum of Rs.8.54 crore during the financial year 2021-22 for purchasing of 7,500 Desks and Benches through TANSI. During the same year, the Government has also sanctioned a sum of Rs.16.21 crore, for the purchase of 12,930 Desks and Benches for students, 862 Tables for teachers and 862 Ceramic Black Boards in 68 Government Arts and Science Colleges through TANSI.

3.20.2. Digital Libraries provide easy access, storage and retrieval of information, thereby encourages more students to use the libraries. With the primary goal of supporting the learners and create a knowledge society, Government has ordered for starting of new Digital Libraries in 10 Government Arts and Science Colleges and sanctioned a sum of Rs.93 lakh.

3.20.3. Digital Libraries were started in 17 Government Arts and Science Colleges a decade ago. As these Libraries have become obsolete, students are unable to use them to the desired level keeping pace with the current technological development. Therefore, the Government have sanctioned a sum of Rs.85 lakh for upgradation of these Digital Libraries and renewal of license.

3.21. DISASTER MANAGEMENT AND PANDEMIC CONTROL

Revenue and Disaster Management Department of Tamil Nadu has allotted a sum of Rs. 1.23 crore for imparting training to NCC Nodal Officers and students in Colleges in the Coastal Disaster Risk Reduction Project. A Committee comprised of 5 NCC Officers was constituted. Training and awareness programmes were conducted in 24 Districts.

The Revenue Administration and Disaster Management Department has sanctioned an amount of Rs.60 lakh to Collegiate Education Department, to take preventive measures in containing COVID-19 pandemic. This amount was utilized for purchase of mask, sanitizer by the Government Colleges.

3.22. NATIONAL SERVICE SCHEME (NSS)

The National Service Scheme (NSS) is effectively functioning in all Higher Education Institutions with the prime objective of personality development of students and moulding them into socially responsible citizens through innumerable activities, with concern for fellow human beings, practicing national integration, patriotism, brotherhood behaviour, leadership qualities, self-confidence, tolerance etc., for the welfare of society, with equity and inclusiveness.

4. UNIVERSITIES

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

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

4.1. UNIVERSITY OF MADRAS

4.1.1. The University of Madras was established in the year 1857 and it is the mother of all South Indian Universities. Its jurisdiction covers four districts – Chennai, Thiruvallur, Chengalpattu and Kanchipuram in Tamil Nadu. The University of Madras has been actively engaged in research and post-graduate teaching since 1900. The University has 72 Teaching and Research departments, 22 Research Centres and 131 affiliated colleges.

4.1.2. The University of Madras has the distinction of maintaining high accreditations and placed in 'A' Grade by the National Assessment and Accreditation Council (NAAC) and in the year 2014. The University scored 3.32 / 4.00 under inclusive accreditation. It has also been recognized by the University Grants Commission (UGC) as 'University with Potential

for Excellence' and also conferred "Category II" status under Graded Autonomy.

4.1.3. The University has been placed at 28th position among the top Universities of the country in the National Institutional Ranking Framework (NIRF) 2021.

4.1.4. The University has set up the Institute of Distance Education (IDE) in 1981 and it presently offers 16 UG courses, 20 PG courses, 10 Diploma / PG Diploma courses and two Certificate courses.

4.1.5. The University of Madras is in the 1st position out of the 531 Universities in uploading Ph.D. thesis in the "Shodhganga", the electronic repository of the INFLIBNET of UGC.

4.1.6. The University has made 2,046 Publications (July 2020 – June 2021) in the Scopus & Web of Science listed peer reviewed journals with the *h*-index of 157. The University

has so far uploaded 30,257-degree certificates and other academic documents in the National Academic Depository (NAD).

4.1.7. The University of Madras has been selected by the Ministry of Education, Government of India for funding under the scheme RUSA 2.0 with the financial support of Rs.50 crore.

4.1.8. Memorandum of Understandings (MoUs) were signed between i) Ramanujan Institute for Advanced Study in Mathematics and Homi Bhabha National Institute, Mumbai to enhance collaborative research in the areas of mutual interest; ii) Madras University Library and Anna Centenary Library for digitization of the rare books and documents; iii) Department of Statistics and University of Naples 'L' Orientale, Italy for special short term academic programmes; iv) Department of Computer Science and ICT Academy, Perungudi, Chennai for jointly developing new courses and v) Department

of Commerce and Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India, Hyderabad for promotion of professional education in rural management.

4.1.9. UNIVERSITY STUDENTS STRENGTH

The sanctioned strength of post graduate students in the university departments is 4,592. Of which, students admitted in this academic year were 3,378 including 670 SC/ST students. The strength of M.Phil Students in the University departments is 103, and the number of Ph.D. scholars registered through various university departments, affiliated colleges and research institutions is 3,267.

4.2. MADURAI KAMARAJ UNIVERSITY

4.2.1. The University was started as a Post Graduate Extension Centre of the University of Madras and elevated to the status of State University in the year 1965 as Madurai University. It was renamed as Madurai Kamaraj University in the year 1979 and has recorded a phenomenal growth over the years.

4.2.2. Madurai Kamaraj University was reaccredited with “A++” status (CGPA Score of 3.54) by NAAC in the 4th cycle of accreditation during March 2021. Now, the University is in the status of Category – I amongst the Universities of India. The Madurai Kamaraj University has secured 63rd Rank among Universities in India and 83rd rank among 1657 Indian Universities and other Institutions in NIRF Ranking, 2021.

4.2.3. The University is offering 54 Post Graduate, 41 M.Phil., 51 Ph.D programmes and

18 Diploma / P.G. Diploma / Certificate courses. Currently, 3,155 UG/PG students and research scholars are on the roll. In the year 2020-21, 175 students of Madurai Kamaraj University got placement.

4.2.4. Fifty seven faculty members have received research projects funded by various National and International funding agencies to the tune of Rs.23 crore. Seven retired faculty members are now doing research under prestigious senior fellowships programmes ie., INSA, UGC-BSR, DAE-Raja Ramanna and ICSSR.

4.2.5. The University has established 1 MW solar power plant within the University campus with the support of Rural Electrification Corporation Limited (RECL), New Delhi at a cost of Rs.7.25 crore.

4.2.6. The Revenue and Disaster Management Department, Government of

Tamil Nadu has sanctioned a sum of Rs.59.52 lakh on 8.10.2021 under the Capacity Building component of State Disaster Response Fund (SDRF) to conduct Collaborative Programme regarding "Psychosocial care during Covid-19" by Madurai Kamaraj University, National Institute of Mental Health and Neuro Science, Bengaluru and M/s. Chellamuthu Trust and Research Foundation, Madurai.

4.2.7. The University Grants Commission, New Delhi has sanctioned Rs.10 crore for five years for Phase II and released Rs.3 crore on 15.11.2021 to the "Networking Resource Centre in Biological Sciences", School of Biological Sciences, Madurai Kamaraj University. Under this program, the NRCBS will promote and facilitate the research work of faculty and students in areas of Biological Sciences.

4.2.8. Under RUSA 2.0 program, Madurai Kamaraj University has established

'Entrepreneurship, Innovation and Career Hub' and a world-class computer and foreign language laboratory with 300 computers for the benefit of students at a cost of Rs. 15 crore.

4.2.9. A grant of Rs.3.3 crore has been received through RUSA, to establish State of the Art ancient DNA laboratory for the purpose of DNA research.

4.2.10. Under DST-PURSE (Phase II) program, Biosafety Level (BSL) - III facility has been established at the cost of Rs. 90 lakh to do advanced research with hazardous pathogenic clinical samples including HIV, Mycobacterium and COVID-19.

4.2.11. Directorate of Distance Education (DDE) in the University has successfully launched an ERP based online admission portal.

4.2.12. The University was selected by UGC as one among the 16 Universities in the country

and sanctioned a grant of Rs.1 Crore to operate under the STRIDE programme.

4.2.13. With the support of Directorate of Public Libraries, Tamil Nadu Dr. T.P.M. Library of Madurai Kamaraj University has completed the digitization of 1243 rare books in Tamil and English literature published 60 years ago.

4.2.14. The Department of Natural Products Chemistry, under the School of Chemistry is offering a unique Post Graduate Diploma program in Industrial Metal Finishing. The students who completed the course are all well placed in the automobile industries sector.

4.3. ANNA UNIVERSITY

4.3.1. Anna University, the single largest technical University in India, continues to be the leader in technical education in the country. On 17th May, 1794, a Survey School was started with just eight boys in a building near Fort St.George. The Survey School metamorphosised into the College of Engineering which was amalgamated later with other institutions namely Alagappa College of Technology, Madras institute of Technology and School of Architecture and Planning to form the Anna University in 1978 as a unitary type of University.

4.3.2. Now it is an affiliating type of University with all the engineering colleges of the State under its umbrella. It has 13 Constituent Colleges, 3 Regional Campuses in Tirunelveli, Madurai and Coimbatore along with 553 affiliated colleges including Government, Government aided and Self-financing Colleges. Anna University offers

28 UG and 78 PG Programmes with 10,975 students on roll in the University Departments, 47 UG and 63 PG Programmes with 2,92,470 students in Affiliated Institutions and 3,004 PG students in Distance Education programme. Anna University is proud of having 2,267 Ph.D. scholars in the University Departments and 10,992 Ph.D. scholars in the Affiliated Institutions.

4.3.3. In the NIRF ranking – 2021, Anna University has been positioned 16th among the Universities, 22nd among Architecture Institutions, 18th among Engineering Institutions, 25th in the overall category and 57th in Management Category. Based on the World’s largest collection of peer reviewed literature, Quacquarelli Symonds Index (QS Index) ranking 2021 has placed Anna University between 801 – 1000 worldwide and 196th at Asia Level.

4.3.4. Anna University has 29,048 Publications with citations of 1,67,433 with the “h” index of 111 as per the SCOPUS database as on date. It was ranked first in the Country among the state funded Universities based on publication and citation.

4.3.5. The Centre for Aerospace, MIT Campus participated in the Mehar Baba competition and got the award for outstanding Drone Architecture on 25th October, 2021. The main aim of the competition is to use the Swarm Drone Technology for Indian Border Security force. The Indian Air Force is in discussion with the University to design UAV for IAF using such a technology.

4.3.6. Director General of Civil Aviation (DGCA) has also approved to start Remote Pilot Training Organization (RPTO) at Centre for Aerospace Research (CASR) MIT campus on 27th May, 2021. The RPTO has been

initiated in the University which is first of its kind in the nation. In the first batch, 16 students were enrolled for the RPTO course and completed their training successfully.

4.3.7. Makers LAB has been established in Centre for Entrepreneurship Development (CED) of CEG campus as well as in MIT campus.

4.3.8. Mphasis Limited, American Megatrends International India Private Limited and Hitachi Vantara have come forward for campus recruitment, exclusively meant for the students of the 16 University Colleges of Engineering. Mphasis has recruited 98 students from the various University Colleges of Engineering during 2021-22. The process is ongoing in respect of the other two companies.

4.3.9. Based on the research outcomes, Anna University secured 18 patents and filed another 5 patents during the last academic year.

4.3.10. The Department of Science and Technology (DST) has sanctioned a sum of Rs.8.60 crore to 8 Departments of Anna University under FIST Programme and are in operation.

4.3.11. The Department of Biotechnology, Government of India has sanctioned a sum of Rs.1.99 crore for the Centre for Biotechnology, Anna University, for the Scheme entitled "STRUCTURAL INFORMATICS AND CHEMICAL BIOLOGY-BIC on 31.12.2021, for a period of 5 years.

4.3.12. Centre for Nano Science and Technology received an Indo - Japan Collaborative project "Investigation on the growth process and defects studies of semiconductor materials for high-temperature thermos electric applications" from DST, India for two years from 2021 to 2023.

4.3.13. Department of Textile Technology, Anna University, Chennai has developed a reusable mask based on polyester fleece fabric meant for filtration of particles of size 3.0 microns and above.

4.3.14. Automated External Defibrillator (AED) and web-based audiometer has been developed by Anna University which was funded by Department of Science and Technology.

4.3.15. A foot abduction brace with a compliance monitor for clubfoot deformity in children has been developed in collaborative co-ordination with IISc, Bangalore and CMC Vellore, funded by DST.

4.3.16. E-YUVA scheme is mandated to promote a culture of applied research and need-oriented (societal or industry) entrepreneurial innovation among young students and researchers. Funding to the tune of

Rs. 2.36 crore has been allocated for a period of three years out of which an amount of Rs 38.38 lakh has been released for the first year.

4.3.17. UGC, New Delhi in association with DAAD- Germany has sponsored Rs. 2.05 crore for the Indo-German Partnership programme titled 'Influence of regional climate change on the groundwater resilience' in selected urban areas to Anna University, in collaboration with Freie University at, Berlin, Germany for the period of four years.

4.4. BHARATHIAR UNIVERSITY

4.4.1. Bharathiar University was established on 5th February 1982 with nine academic departments. Currently, the University has 14 Schools housing 38 departments. Through these departments, 54 PG Programmes and 3 UG Programmes are offered besides M.Phil. and Ph.D. programmes. For the academic year 2021-22, 2,649 PG Students, 324 UG students, 48 M.Phil. Scholars and 734 Ph.D. Scholars are on roll.

4.4.2. Bharathiar University has been accredited consecutively with "A" Grade in third cycle by National Assessment and Accreditation Council (NAAC).

4.4.3. Bharathiar University has been ranked as 14th among Indian Universities, stands 22nd in the overall and 23rd in the Research categories by the National Institutional Ranking Framework (NIRF), Ministry of Education (MoE), Government of India for the year 2021.

Bharathiar University has been placed in 801-1000 category in World University Rankings and 18th among Indian Institutions, 251-300 category in World Young Universities by TIMES Higher Education, UK for the year 2022.

4.4.4. Departments of the University have been recognized for their academic excellence and are being supported through Special Assistance Program (SAP) and Centre for Potential of Excellence in Particular Area (CPEPA) by University Grants Commission and DST-FIST grant by Department of Science and Technology, Government of India.

4.4.5. Three patents were granted in the name of Bharathiar University and fifteen more patents have been filed.

4.4.6. The University has started the Bharathiar Entrepreneur, Innovation and Career

Hub (BEICH) and Bharathiar Cancer Theranostics Research Centre (BCTRC).

4.4.7. The University has started the **Bharathiar Uyaraivu Maiyam** which houses memoirs of the life and achievements of Bharathiar, to pay homage to the great National poet whose name it bears.

4.4.8. A clock tower is under construction as part of Bharathi Centenary Year Celebrations as well as 75th Year of Indian Independence. It is also proposed to construct a Bharathiar Museum in the campus as part of Bharathi Centenary Year Celebrations.

4.4.9. The University has established a Herbal Garden to nurture medicinally important plants.

4.5. BHARATHIDASAN UNIVERSITY

4.5.1. Bharathidasan University, established in 1982, was named after the great revolutionary Tamil Poet, **Bharathidasan**. The motto of the University "**We will create a brave new world**" has been framed from Bharathidasan's poetic words "புதியதோர் உலகம் செய்வோம்".

4.5.2. The University has four Faculties, 16 Schools, 37 Departments, 30 Specialized Research Centres including the recently started Bharathiar Chair, 12 Cells including the Internal Quality Assurance Cell (IQAC), Intellectual Property Rights (IPR), Anti-Sexual Harassment Cell (ASHC), besides 10 entities including the UGC financed HRDC.

4.5.3. In 2021, the University secured 57th rank in NIRF and 5th rank among the

Universities in Tamil Nadu. The University was the first State University in Tamil Nadu to obtain “A+” Grade under the Revised Assessment and Accreditation Framework of NAAC. Dr. M. Lakshmanan, Professor of Eminence, a specialist in Non-Linear Dynamics, Bharathidasan University has received the Dr. A.P.J. Abdul Kalam Award, from the Hon’ble Chief Minister of Tamil Nadu.

4.5.4. The BDU Entrepreneurship, Innovation and Career Hub (BECH – RUSA 2.0) has carried out a number of activities during the year 2021-22, including 42 Online Programmes, 7 Industry Institution Interaction Meets, benefitting around 4,000 students.

4.5.5. A total of 29,670 students were admitted in skill development programmes of the Institute for Entrepreneurship and Career

Development (IECD) through tie-up organizations, affiliated colleges and also at IECD campus.

4.5.6. The Bharathiar Chair (பாரதியார் இருக்கை), in honour of the great Tamil Poet, Mahakavi Subramania Bharathi was established on his Birth Anniversary celebrated on 11th December 2021.

4.6. MOTHER TERESA WOMEN'S UNIVERSITY

4.6.1. Mother Teresa Women's University stands as a sterling house of Women's Empowerment and it was named after the Nobel Laureate for Peace, St. Mother Teresa. Established in 1984, the University bears the pride of being the only one of its kind in the State, and the third in the Nation with its unique status, **'By, For, and Of the women'**. The University is located at Kodaikanal and provides a conducive environment for academic and research pursuits for the woman aspirants.

4.6.2. The University's motto "Towards Equal Status" coupled with its holistic vision of Women's Empowerment through education targets building an egalitarian society where woman education is used for sustainable national development.

4.6.3. The University has 16 departments with three Research and Extension Centres at Chennai, Madurai, Coimbatore and a Training Centre for Women's Empowerment at Pallapatti (SIPCOT campus), Dindigul District. There are 13 affiliated Colleges which include three Government, two Aided, one Constituent and seven Self-financing colleges.

4.6.4. The University is accredited with 'A' Grade by NAAC in third Cycle and the University has been chosen as a HUB under EDII. Further it has a NABARD sponsored Rural Development Programme.

4.6.5. The University has entered into MoU's with five International, two National and six State level institutions / industries to improve the standard of Higher Education and keep pace with current trends.

4.6.6. Tribal villages were adopted for welfare and awareness creation programmes towards social empowerment and economic upliftment in coordination with NSS / YRC / Rotaract / Swachh Pakhwada/ Centre for Women's Studies / Centre for Gandhian Studies.

4.6.7. The University has developed a Centre for Innovative Research and Start-ups and established Green library and Children's library.

4.6.8. 83 Research Papers were published by faculty members indexed in Scopus/Web of Science / UGC / Pub Med and 112 papers were presented in various Seminars / Conferences / Webinars at National / International levels.

4.6.9. The University has conducted 17 Workshops / Seminars on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship Development and Skill Development.

4.7. ALAGAPPA UNIVERSITY

4.7.1. Alagappa University was established in 1985 at Karaikudi, Sivagangai District. It has Four faculties, 44 Departments, 10 Directorates and Centres and three University Constituent Colleges with jurisdiction of two districts namely Sivagangai and Ramanathapuram. The prime objective of the University is to provide quality education in all spheres.

4.7.2. The University offers 203 Programmes in the University Departments, 117 in Affiliated Colleges, 75 in Distance Education and 146 programmes in collaborative mode of education. Around 1.20 lakh of students are pursuing higher studies through the above streams.

4.7.3. Alagappa University has been awarded A+ Grade by National Assessment and Accreditation Council - NAAC in the third Cycle of

assessment in 2017. The university is placed in 33rd position under National Institutions Ranking Framework (NIRF) 2021, instituted by the Ministry of Education (MoE), Government of India.

4.7.4. Under QS World Ranking 2022, Alagappa University has been placed 23rd position among 107 Ranked Indian Institutions and stood First among the Higher Education Institutions in Tamil Nadu.

4.7.5. Alagappa University has been recognized in the band "PERFORMER" under the category "General (Non-Technical)" in ATAL Ranking of Institutions on Innovation Achievement (ARIIA) 2021. Further, the MoE's Innovation Cell has accredited the Innovation and Invention Cell of Alagappa University with 3.5 / 5 stars for the activities carried out to promote innovation, invention and entrepreneurship culture among the students during 2020-21.

4.7.6. The DBT, Ministry of Science and Technology, Government of India has sanctioned Rs. 1.83 crore to the Department of Bio- Informatics to carry out a project through the Establishment of Bio-Informatic Centre at Alagappa University for a period of Five years.

4.7.7. Ten students from foreign countries, viz. Kenya, Sri Lanka, Bangladesh, South Africa, have been admitted for various programmes in the University Departments under Indian Council for Cultural Relations (ICCR), New Delhi Fellowship during the Academic year 2021-22. Furthermore, a good number of responses received indicate that more students from overseas will enroll in the ensuing academic years.

4.7.8. Five new Academic buildings, viz. Social Science Block, Educational Science Block, University Science Instrumentation Centre building, Information Technology Avenue, Girls

Hostel and Indoor Stadium, to the tune of Rs.14.50 crore were constructed under RUSA Phase 2.0 scheme and have become functional. Further, two highend scientific equipment, viz. Proton Nuclear Magnetic Resonance (NMR) spectrometer and Automated DNA Sequencer for Rs.7.75 crore were procured under this scheme.

4.7.9. Innovation and Incubation Centre of Alagappa University framed the Innovation and Startup Policy in line with National startup and Innovation Policy. The Entrepreneurship Development and Innovation Institute, Tamil Nadu (EDII-TN) has recognized the EIC hub of the University as Nodal hub to impart Innovation and Entrepreneurship programmes. Two schemes of EDII-TN, viz. **'One Million Ideas'** and **'Tamil Nadu Student Innovators'** are implemented through 44 Spoke institutions of Alagappa University under IEDP hub.

4.7.10. With the approval of the Ministry of Communication and IT, Government of India, the Community Radio Station was established with the frequency band of 90.8 MHz to teach the students and for other social media broadcasting.

4.7.11. The Examination wing of Alagappa University has initiated efforts for the introduction of Digital Evaluation system. This system was implemented in the University Departments and Affiliated Colleges.

4.7.12. The Archaeological Survey of India (ASI), New Delhi, has accorded permission to the History Department of the University for carrying out excavation in Ellanthakarai and its surroundings at Kalayarkovil Taluk in Sivagangai District.

4.7.13. Alagappa University Innovation and Incubation Centre (AUIIC) will provide technical services that include R&D activities, product

development, Re-engineering, Calibration and testing facilities, Quality assurance and Market Research to the startups.

4.7.14. Alagappa University has planned to establish a 'World Class State Level Research Consortium' comprising of State Universities to work jointly to address the solution for real life problems in health care, energy, disaster management, biodiversity, agriculture, information technology, Artificial Intelligence, Machine Learning, Skill Development and Socio-Economic development of our State with more focus on interdisciplinary approach on various disciplines.

4.8. MANONMANIAM SUNDARANAR UNIVERSITY

4.8.1. Manonmaniam Sundaranar University established in 1990, was named after the Tamil poet and scholar Dr.P. Manonmaniam Sundaram Pillai. The University covers the jurisdiction of the four southern districts of Tamil Nadu, viz., Tirunelveli, Thoothukudi, Tenkasi and Kanyakumari with a campus area of 890 acres.

4.8.2. The University is re-accredited with 'A' Grade (CGPA-3.13) by NAAC and placed at 70th position among the top Universities of the country in the NIRF India Ranking 2021.

4.8.3. The University has four Faculties, 24 Departments, four specialized Centres, one Central Facility, and conducting more than 100 (Int.PG/PG, M.Phil, Ph.D) programmes at different levels. At present, 3,257 students are pursuing their higher studies and research in the University Departments.

4.8.4. The University affiliates 105 colleges and 1,07,573 students are pursuing their studies in the Affiliated Colleges.

4.8.5. The University has secured 12 patents during 2021-22 and signed six MoUs with Institutions / Industries at the National Level. The Faculty have achieved 6,651 publications in the Scopus listed peer reviewed journals with impressive citations of 76,564 and h-index of 93 and i-10 index is 1,706.

4.8.6. The University library is fully automated and has digitalized around 671 rare books with the help of affiliated colleges and Anna Centenary Library.

4.8.7. The UGC, New Delhi under the National Skill Qualification Framework (NSQF) has sanctioned Rs.1.60 crore for Skill Development.

4.8.8. Research Chair in the name of V.O.Chidambaranar has been established in the

University with a Corpus fund of Rs.20 lakh from the University Fund.

4.8.9. A Centre for Studies on Tamil Knowledge System to create knowledge base and digitization of old manuscripts in Bio-Diversity, Natural structures, Traditional medicines, Agricultural practices and Archaeological. An initial amount of Rs.10 lakh has been allotted from the University fund.

4.8.10. A Centre for Archaeological Studies has been created in this University from the year 2021-22 and an amount of Rs.3 lakh has been sanctioned. The ultimate objective of this center is to identify ancient relics and the artifacts recovered as on date from these sites through non -invasive scientific techniques, involving faculties expertise from the various Departments of the University.

4.8.11. A New City Complex building at Keelanatham village, Seevalaperi is under construction for the Skill Development and Entrepreneurship Development initiatives of the University.

4.8.12. A Sewage Water treatment plant has been established at a cost of Rs.34 lakh and the treated water from this plant (1 lakh litre / day) is used for gardening.

4.8.13. This University received the Mahatma Gandhi National Council of Rural Education Award, Government of India.

4.8.14. The University has adopted 233 villages through the affiliated colleges and University departments under NSS.

4.8.15. Students have actively participated in health-related campaigns under Fit India Movement (Fit India Run, International Day of Yoga and National Sports Day).

4.9. PERIYAR UNIVERSITY

4.9.1. The Government of Tamil Nadu established Periyar University at Salem on 17th September 1997.

4.9.2. The University has five Science schools and three Arts schools comprising 27 Departments offering 32 Postgraduate programmes, three B.Voc. Degree programmes and 27 Research programmes. The Postgraduate Centre of Periyar University is situated at Dharmapuri.

4.9.3. The objective of the University is to develop knowledge in various fields to realize the maxim inscribed in the logo **“Arivaal Vilaiyum Ulagu”** (Wisdom Maketh the World).

4.9.4. The University has introduced skill-based programmes such as Augmented Reality/Virtual Reality (AR/VR), Textiles and Apparel Design, Food Science and Nutrition, Digital Marketing and Diploma in Accountancy and

Taxation. The University introduced M.Sc. Data Science in association with Boston University.

4.9.5. The programme fee is 100% waived for students who lost their parents due to Covid-19 infection and HIV infected students from the academic year 2021-22.

4.9.6. The University is accredited with "A++" grade by NAAC in 2021, ranked 73rd among the Universities in India by the NIRF 2021 and obtained 10th rank in ARIIA, 2021.

4.9.7. The Department of Computer Science has been sanctioned Rs.2.66 crore for placement linked training programme under DDU-GKY project by Tamil Nadu State Rural Livelihood Mission (TNSRLM) to train 350 rural youths, an initiation into INDUSTRY 4.0 - New Age Skills on Artificial Intelligence, Business Intelligence, Data Science and UI/UX Development.

4.9.8. Periyar University Business Incubation Confederation was established with the financial assistance of Rs. 1 crore by Entrepreneurship Development and Innovation Institute (EDII - TN).

4.9.9. Central Instrumentation facility was established with Sophisticated Equipments such as Single Crystal XRD, SEM, Solar Simulator, GCMS etc., under RUSA scheme

4.9.10. The University has signed several functional MoUs with National and International institutions such as University of South Brittny, France for mutual exchange of faculty, Curtin University Sarawak, Malaysia for student's internship programme and Teknologi Petronas University, Malaysia for internship and faculty exchange programme.

4.9.11. B.Voc. Degree programmes integrated with National Skill Development Corporation (NSDC) courses are introduced with the approval of UGC under UGC-B.Voc. Programme scheme.

4.10. TAMIL NADU OPEN UNIVERSITY

4.10.1. The Tamil Nadu Open University (TNOU) was established in the year 2002 for introducing and promoting Open and distance learning systems among seekers of higher education in the State and constantly provides opportunities for upgrading knowledge, training and skills in the context of innovations, research and discovery in all fields of human endeavors.

4.10.2. TNOU, since its inception, is providing cost effective, socially relevant Open and Distance Learning Programmes to the hitherto unreached as well as the disadvantaged groups who mainly live in remote and rural areas including the working class, housewives, differently abled, backward, most backward, scheduled and scheduled tribe learners.

4.10.3. Tami Nadu Open University at present is offering Degree Programmes, Skill Development Programmes including Certificate, Diploma, Vocational Diploma, PG Diploma, Undergraduate, post-graduate, M.Phil., and Ph.D. programmes.

4.10.4. The University has supplied 2 steel racks each for 32 District Libraries through TANSI, along with Self Learning Materials (750 Books) for the benefit of the incumbent students and the aspirants to prepare for Competitive Examinations like UPSC, TNPSC, SSC and TRB etc., during 2021-22.

4.10.5. Four new Regional Centres were established at Mayiladuthurai, Sivagangai, Thiruvannamalai and Salem.

4.10.6. The Tamil Nadu Open University formulated the Policy Documents and Guidelines during 2021 – 22, such as TNOU – Social Media

Policy, TNOU Equal Opportunity Policy for Persons with Disabilities, etc.

4.10.7. An intensive admission drive in the COVID pandemic period resulted in 17,273 students getting admitted in various academic programmes during the calendar year 2020 and academic year 2021-22 as well.

4.10.8. Self-Learning Material Policy Document is developed for the preparation of Self Learning Materials (SLM). As on date 316 SLMs were developed based on the updated Syllabi.

4.10.9. To establish Academic Linkages an MoU was signed between the Gandhigram Rural Institute (Deemed University) and Tamil Nadu Open University on 05.01.2022 for a period of five years.

4.10.10. The University has entered into MoUs with 18 Educational Institutions / Organizations for offering various programmes during 2021.

4.10.11. A faculty member of TNOU was involved in the excavation at Porpanakotai in Pudukotai District.

4.10.12. The University established the “Thiruvalluar Chair” at TNOU on 15.01.2022.

4.11. THIRUVALLUVAR UNIVERSITY

4.11.1. Thiruvalluvar University was established in the year 2002 by the Government of Tamil Nadu. The Thiruvalluvar University has 10 Departments in its campus and the University has 73 affiliated Arts and Science Colleges, and 6 Research Institutions within the jurisdiction of four districts, viz., Vellore, Thiruvannamalai, Ranipet and Tirupattur.

4.11.2. A total number of 694 Research Papers of the Faculty Members of the University departments were published in Science Citation Indexed Web of Science Journals and 923 Research papers of the Faculty Members of the University departments were published in Scopus indexed journals, as on date. The University ranks high among other Universities with the highest average citation index per article being 18.72.

4.11.3. DST- FIST has sanctioned a sum of Rs. 52 lakh for the project titled "Studies on Complex Network Systems".

4.11.4. Tamil Nadu State Council for Higher Education has sanctioned a sum of Rs.14.15 lakh for the project "Chemosensitizing efficacy of Capsaicin in Paclitaxel induced drug resistance during breast cancer treatment: A study on the regulation of ABC transporters".

4.11.5. Science and Engineering Research Board (SERB) has sanctioned a sum of Rs.13.20 lakh for the project entitled "Studies on Stochastic complex valued systems" and Rs. 6 lakh for the project entitled "Studies on Multi agent Systems".

4.11.6. The University Central Library has 11,677 volumes of books covering all disciplines besides having 1,039 Ph.D. Thesis and 5,883 M.Phil Dissertations. Internet browsing

facilities is also available inside the library to browse e-resources.

4.11.7. New buildings such as Vice-Chancellor's Quarters, men and women hostels, and academic block are nearing completion.

4.12. TAMIL NADU TEACHERS EDUCATION UNIVERSITY

4.12.1. The Tamil Nadu Teachers Education University was established in the year 2008 to promote excellence in Teacher Education. It is the only University of its kind in the country.

4.12.2. The mandate of the University is such that it provides knowledge and skills to prospective teacher candidates on how to teach and train the students. Its main objective is to academically monitor teacher's education as approved by the National Council for Teachers Education at all levels in the State.

4.12.3. At the time of establishment of the University and its functioning from 01.07.2008, 491 colleges of education which were till then affiliated to other Universities came into its jurisdiction as an affiliating university. As on date, the total affiliated colleges of education are

649 comprising 7 Government and 14 Government Aided Colleges of Education and 628 Self-financing Colleges of Education.

4.12.4. The Tamil Nadu Teachers Education University has started various Centers to visualize, set goals, draw strategies and action plan for academic and administrative assignments to ensure the development of the University in all respects.

4.12.5. The Tamil Nadu Teachers Education University has received Certificates for World Record Events in 2021-22, such as participation in the event “Longest Virtual Debate in Tamil - 27 Hours” organizing the event “Longest Virtual Seminar on the Role of Teachers Towards Pinnacle of Achievements” - 30 Hours and 30 Minutes, and organizing the “Longest Virtual Event on Vision 2030: Importance of Enhancing Life Skills for Reaching Higher Heights” - 59 Hours.

4.12.6. The University has adopted five villages in Thiruvallur District, namely Vishnuvakkam, Illupur, Panapakkam, Ayathur, and Govindamedu, under the Unnat Bharath Abhiyan Scheme (MOE, Govt. of India).

4.12.7. The University also proposes for adoption of a school by each and every B.Ed College as attachment to improve the quality of Teacher education.

4.13. ANNAMALAI UNIVERSITY

4.13.1. The Annamalai University was earlier established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929) and now the University has been brought under the control of Government of Tamil Nadu from 25.09.2013 vide the Annamalai University Act, 2013.

4.13.2. Annamalai University does yeoman service in taking education to the doorsteps of the people who are far from access to centres of higher learning. The University has initiated several innovative teaching programmes over the years and has been a pioneer in distance education.

4.13.3. Annamalai University is a multi-disciplinary University with 8 Faculties and 52 Departments offering UG, PG, Post-Doctoral and Doctoral Programmes in Engineering, Pure and Applied Sciences, Management and Humanities, Social Sciences, Agriculture, Marine

Science, Indian languages, Education and Fine Arts. It has become an affiliating University covering the jurisdiction of four districts namely Cuddalore, Villupuram, Kallakurichi and Mayiladuthurai. There are 74 affiliated Colleges and one P.G. Extension centre.

4.13.4. The University is working on revamping curriculum, pedagogy, assessment and student support for enhanced student experience. Recently, the University has implemented the policy of faculty autonomy in monitoring and assessment.

4.13.5. Increased focus is on communication, discussion, debate, research and inter-disciplinary thinking and pedagogical methods to improve the quality of education.

4.13.6. As a part of holistic education, internship embedded programmes are offered to improve the practical competence and employability.

4.13.7. e-Governance is implemented in the University in a phased manner for effective and efficient management of Admission, Administration, Finance and Accounts, Examination and Student Support.

4.13.8. Student admission starts with online applications to all the Programmes offered by the University.

4.13.9. The University adopts the Biometric Attendance Management System for effective administration and monitoring.

4.13.10. Internet facility is provided across the campus through LAN with high transmission capacity Optical-Fiber Cable. More than 2,500 students and faculty members access the Internet facility daily through wired and Wi-Fi connections.

5. TAMIL NADU ARCHIVES

5.1. Tamil Nadu Archives plays a vital role in the Administrative history of the State. Our ancient Tamil Kings have preserved these documents in the name of '**AvanaKalari**', as these documents are precious treasures in nature and the officer in charge was called as '**Olainayagam**'. Now the tradition is being continued and the formal origin of the Tamil Nadu Archives may be traced to the Central Record Room created at Fort St. George in 1805. As the records grew in numbers, they were shifted to the well-designed present campus in the year 1909 and was functioning in the name of Madras Record Office. Later in 1973, it was renamed as the Tamil Nadu Archives and Historical Research.

5.2. Archives contains records from the year 1670 and these records are not just for information but also served as an encyclopedia of knowledge. The records of District Courts in Dutch, Danish and Persian languages are also

preserved by Archives. The Archives assists the scholars in understanding research on the history of the State in various dimensions.

5.3. The main activities of the department is to centralize the permanent records. Modern techniques are used for preserving the records in a scientific manner. It is helpful for various Government departments and Bonafide Research Scholars to take official references. The Archives also provides certified copies of Government Orders (G.Os.), Gazette Notifications, copies of Electoral rolls of private individuals on request.

5.4. Considering the importance and usage of documents for next generation, all the records have been micro filmed and indexed by using traditional as well as scientific methods.

5.5. Tamil Nadu Archives contains a Library and it has a collection of 2.31 lakh of books published from the year 1633. These books are used for reference purpose by Research Scholars.

5.6. In the year 1981, a Specialized training on “Record Management and Preservation” was organized. In the year 2021, 63 Personnel, incharge of Record rooms in Government Offices of Tamil Nadu have been trained and benefitted.

5.7. Considering the importance of various Government Department records, preservation of Administrative and Historically important documents is taken up across the State. Six District Record Centres are functioning in Coimbatore, Cuddalore, Madurai, Salem, Tiruchirapalli, and Thanjavur.

5.8. The department also issues copies from its holdings under Right to Information Act, 2005. More than 9,000 applicants benefitted by obtaining required information under RTI Act from this Department, during the year 2021.

6. TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION

6.1. The Tamil Nadu State Council for Higher Education (TANSCHE) was established in 1992 by the Government of Tamil Nadu, as per the guidelines of the University Grants Commission. This Council has been guiding and monitoring quality enhancement of academic programmes to promote higher education in Tamil Nadu.

6.2. ACTIVITIES OF THE COUNCIL

6.2.1. The Tamil Nadu State Council for Higher Education has been implementing the scheme "Special Care for Slow Learners in order to prevent college dropouts" in 24 Government Arts and Science Colleges. Rs.30.00 lakh is being spent for this scheme every year.

6.2.2. "Soft Skill Centres" have been established in 62 Government Arts and Science

Colleges. Every year Rs.1.55 crore is being spent to train 500 students per college through Soft Skill Centres.

6.2.3. Every year 25 selected projects have been funded upto Rs.1 lakh per teacher under 'Minor Research Project' scheme to promote research aptitude among Government Arts and Science College teachers. Totally 117 projects are funded under this scheme.

6.2.4. Under 'Student's Mini Project' scheme, selected final year post graduate students studying in Government Arts and Science Colleges are given Rs.15,000/- per project to promote their research aptitude. Totally, 230 projects were funded under this scheme.

6.2.5. Partial financial assistance for 194 proposals has been provided for all State Universities and Colleges in Tamil Nadu to

conduct seminars/workshops/ conference at the National and International levels.

6.2.6. The Tamil Nadu State Council for Higher Education has been conducting various Board of Studies meetings for deciding on equivalence among various degrees.

6.2.7. Publication of peer reviewed research articles – in '*Journal of Humanities and Social Sciences*' and '*Journal of Modern Sciences*' – biannual TANSCHÉ Journals are brought out to expose students and research scholars to the latest knowledge in the field, to share expertise and disseminate knowledge.

6.2.8. Tamil Nadu State Council for Higher Education has Coordinated “University Business Collaboration Centres” in six Universities to foster industry participation and enhance employment opportunities.

6.3. PROPOSED ACTIVITIES FOR THE YEAR 2022-23

6.3.1. Revamping of Course structured for the academic programs offered in State Universities/Colleges in consultation with Industry stakeholders to enhance the employability of students.

6.3.2. To simplify the process of equivalence, TANSCH is preparing "Comprehensive grouping of the degree programs" in line with AICTE Notification dated 28th April 2017 for pursuing higher studies and employment in public services.

6.3.3. The Tamil Nadu State Council for Higher Education is preparing a documentation on History of Freedom Struggle in Tamil Nadu for the 75th Independence Day celebrations. This includes marking 75 important stages of the Freedom Struggle pertaining to Tamil Nadu.

6.3.4. Collecting sources and data for preparing a special document marking 75 important stages in the growth of Higher Education in Tamil Nadu and a Catalogue listing 75 prominent Higher Education Institutions based on their contributions.

6.3.5. The Council plans to conduct Workshops on Examination Reforms in coordination with Tamil Nadu Agricultural University for the Controllers of Examination of all State Universities and Autonomous Colleges.

6.3.6. The Tamil Nadu State Council for Higher Education is evolving State Level Ranking Formula similar to NIRF. TANSCHHE has conducted 9 consultation meetings with IQAC and NIRF/NAAC Nodal Officers of leading colleges and Universities in Tamil Nadu.

6.3.7. 'Academic Bridge Course' is revived for first year Government Arts and Science College students.

6.3.8. The Government, in the Budget Speech 2022-23 had announced a new programme to coordinate the Alumni of Universities and Colleges of Tamil Nadu spread all over the world with our students for the development of infrastructure, e-governance and research activities to enhance the standard of Higher education on par with International level thereby enabling the students to seek gainful employment.

7. RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA)

7.1. Rashtriya Uchchatar Shiksha Abhiyan (RUSA) a Centrally sponsored scheme with 40% State contribution is being implemented successfully across the state. Access, equity and excellence in Higher Education are the thrust areas that are envisioned for growth. Around 172 Institutions have benefitted directly and many Higher Educational Institutions (HEIs) in Tamil Nadu have benefited indirectly under RUSA so far and the roll out of the third phase (RUSA 3.0) is on the anvil.

7.1.1. RUSA 1.0

Augmented infrastructure of classrooms, laboratories, sports facilities, smart classrooms and technology – enabled learning stands as a testimony for the effective outcome of RUSA 1.0.

7.2. RUSA 2.0

The satisfactory outcomes of RUSA 1.0 set the ball rolling for the sanction of RUSA Phase 2.0 by Ministry of Education for Rs.615.78 crore in 2018. RUSA's basic principle of norm-based funding was extended under RUSA 2.0 to those institutions that have not availed funds under Phase I. Accreditation by NAAC has been mandated as a eligibility requirement for availing funding under Phase II. Around 14 components were stipulated for funding under RUSA 2.0 with two new components for Enhancing Quality and Excellence in State Universities and Autonomous colleges. The State has been approved of Rs. 492 crore (Union Share Rs. 295 crore + State Share Rs. 197 crore)

7.2.1. ENHANCING QUALITY AND EXCELLENCE IN SELECT STATE UNIVERSITIES

An amount of Rs. 100 crore was sanctioned under this component out of which

Rs.85.00 crore was earmarked for research, innovation, quality enhancement and excellence and Rs.15.00 crore was allocated for creation of Entrepreneur hub. Collaborative research has been undertaken with University of Michigan, University of Chicago and Cornell University and MoU has been signed between Cornell University USA with Alagappa University, Karaikudi for advancement in research. Skill Development Programs were conducted for the benefit of 7,700 students.

7.2.2. An amount of Rs. 80 crore was approved for three Universities and 10 colleges towards creation and upgradation of infrastructural facilities along with procurement of equipments to cater to the growing demands of the institutions.

7.2.3. Two colleges in Madurai and Tirunelveli have been funded Rs. 2.50 crore each for building hostels for SC/ST girl students under Equity Initiatives.

7.2.4. Two Universities in Madurai and Tiruchirappalli have been funded Rs.3.50 crore each for building Human Resource Development Centre (HRDC) under faculty improvement.

7.3. ACTIVITIES UNDER RUSA

7.3.1. A National Conference on Benchmarking Quality Parameters of Research Programs was held in 2019 with four technical sessions covering 20 eminent speakers and 300 participants.

7.3.2. Vocationalization programs have been conducted through Tamil Nadu Skill Development Corporation (TNSDC) for 19 Government Arts & Science (Autonomous) Colleges covering 13,159 students. Further, it is proposed to conduct vocational programs for 48 Government Arts and Science Colleges in the State through Tamil Nadu Skill Development Corporation (TNSDC) at a cost of Rs.3.32 crore.

7.3.3. Programs on Life Skills under the vocationalization component are being conducted through Anna Administrative Staff College. Around 2800 students are being trained in batches on Leadership, Interpersonal skills, Emerging technologies etc.

7.3.4. Weekly Online Workshop (WoW), a series of online sessions are being conducted for all State Government Higher Educational Institutions, covering academic and career-oriented themes along with recent updates in varied sectors. Nearly 500 students participated in the LIVE program and the sessions are also made available in TNRUSA YouTube Channel to the benefit of larger student community.

8. SCIENCE CITY

8.1. In the year 1998, Science City was established under the Chairmanship of Hon'ble Minister for Higher Education with the Prime objective of Promoting Science and Technology to popularize science activities through popular lectures, seminars, training programmes and science exhibition for school / College students. An amount of Rs. 9 lakh was sanctioned to the Periyar Science and Technology Centre towards procuring an inflatable mobile planetarium.

8.2. AWARDS DISTRIBUTION SCHEME

8.2.1. Tamil Nadu Lifetime Achievement Award for Science

This Award was instituted in the year 2000 and is bestowed on scientists / academicians who have completed their doctorate and are more than 60 years of age. The award carries a cash prize of Rs. 25,000/-and a certificate.

8.2.2. Tamil Nadu Senior Scientist Award

This Award was instituted in the year 2016 and is bestowed on scientists / academicians who have completed their doctorate and are between 45 and 60 years of age. This award carries a cash prize of Rs. 20,000/- each and a certificate.

8.2.3. Tamil Nadu Young Scientist Award

This Award was instituted in the year 2000 and is bestowed on scientists / academicians who have completed their doctorate and are 45 years of age and below. This Award carries a cash prize of Rs. 20,000/- and a certificate.

8.2.4. Best Science Teacher Award

Teachers are the pillars of any education system in moulding the young students. Therefore, to recognize and honour the teachers working in Government and Government Aided Schools, the Science City instituted the Best Science Teacher Award. This Award carries a cash prize of Rs. 25,000/- each and a certificate.

8.2.5. Rural Innovator Award

Indigenous innovations have been developed by the rural people using cost effective technology much to the benefit of the society. To honour such Innovation, Science City instituted the rural Innovator Award. The Rural Innovator Award carries a cash prize of Rs. 1 lakh each and a certificate.

8.3. ACTIVITIES PROPOSED TO BE UNDERTAKEN

8.3.1. Chennai Science Festival

A State Level Chennai Science Festival comprising of Mega Science Exhibitions, Panel Discussions, Popular Lectures, Science Demos, Scientific Entertainment such as Puppetry and Competitions for school and college students like quiz, essay, elocution, drawing etc. will be organized.

8.3.2. Summer Training Programmes

In order to motivate and create research temperament among students pursuing Post Graduation, Summer Training Programmes in Mathematics, Chemistry and Biology will be organized. 75% of the students are selected from rural areas and the remaining 25% from urban areas. The training programmes will be organized for a period of 21 days.

9. TAMILNADU SCIENCE AND TECHNOLOGY CENTRE

9.1. To promote greater understanding and awareness of Science and Technology among the public in our State, Tamil Nadu Science and Technology Centre was instituted in the year 1983. Periyar Science and Technology Centre with B.M. Birla Planetarium in Chennai, Anna Science Centre-Planetarium in Tiruchirappalli, District Science Centre in Vellore and Regional Science Centre in Coimbatore were established by Tamil Nadu Science and Technology Centre with creative displays and interactive exhibits. They are functioning with an objective to advance the understanding and appreciation of science and its principles to visitors.

Planetariums in Chennai and Tiruchirappalli Centres cater to astronomy education and provide knowledge about the space for the students

9.1.1. Tamil Nadu Science and Technology Centre is actively engaged in establishment of Science Centres, Science Galleries, Planetariums, research and development of interactive science exhibits and state-wide Science popularization activities.

9.2. INNOVATION HUBS IN TIRUCHIRAPPALLI AND COIMBATORE SCIENCE CENTRES

The Hon'ble Chief Minister of Tamil Nadu inaugurated the Innovation Hubs in Regional Science Centre, Coimbatore and Anna Science Centre, Tiruchirappalli on 28.10.2021.

9.3. ONGOING ACTIVITIES

9.3.1 MODERNIZATION OF ANNA SCIENCE CENTRE-PLANETARIUM, TIRUCHIRAPPALLI

To keep pace with modern technology, the planetarium is being renovated at a cost of Rs.3.00 crore with the incorporation of most

advanced digital Projection System for high quality images. The work is in progress and the facility will be inaugurated in the year 2022-23.

9.3.2. MOBILE EXHIBITION BUS

For popularizing Science and Technology in remote and rural areas, a Mobile Exhibition Bus comprising several built-in participatory type exhibits with a Mini Planetarium, has been in continuous operation since January 1990.

A portable 5-meter diameter inflatable dome with digital projection equipment for the Mobile Science Exhibition bus will be procured at a cost of Rs. 10 lakh with the financial assistance of Science City, Chennai for the benefit of students in Rural areas.

9.3.3. INSPIRE MANAK AWARD SCHEME

'Innovation in Science Pursuit for Inspired Research' (INSPIRE) scheme aims to motivate students in the age group of 10-15 years and

studying in classes 6 to 10 to take up careers in Scientific research.

For the year 2021-22, 1,596 students were conferred with INSPIRE Awards and were given a cash award of Rs 10,000/- each.

9.3.4. PARTICIPATION IN 45TH CHENNAI BOOK FAIR

In the 45th Chennai Book Fair organized by the Booksellers and Publishers Association of South India, which was inaugurated by the Hon'ble Chief Minister of Tamil Nadu, Tamil Nadu Science and Technology Centre displayed the Science exhibits using the mobile science museum bus from 16th February 2022 to 6th March 2022.

9.3.5. EXHIBITION ON ICONIC WEEK OF SELF RELIANCE IN DEFENCE TECHNOLOGY

The iconic week of Self Reliance in Defence Technology was celebrated at Periyar Science and Technology Centre in December 2021 in

coordination with Combat Vehicle Research and Development Establishment (CVRDE).

10. TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

10.1. The Government of Tamil Nadu has formed the Tamil Nadu State Council for Science and Technology as an autonomous apex body under the Chairmanship of Hon'ble Minister for Higher Education, Government of Tamil Nadu in the year 1984. To develop Science and Technology sector of our State, the Council has been implementing various schemes to support Science and Technology research and extension and field-oriented programmes.

10.1.1. During the year 2021-22, the Council has implemented 15 S&T programmes for the benefit of researchers, scientists, students, farmers, fishermen and Self-Help Group members with a total cost of Rs.345.79 lakh reaching all sections of the society.

10.1.2. In addition, Rs.90.93 lakh has been received from DST, Government of India towards core-grant support to the Council and specific projects in Science and Technology.

10.2. ACTIVITIES OF THE COUNCIL

10.2.1. STUDENT PROJECTS SCHEME

Council has supported 1071 research projects benefitting 2,618 final year Post Graduates students in various Departments at a cost of Rs.80.32 lakh in the year 2021-22.

10.2.2. ESTABLISHMENT OF SCHEDULED CASTE (SC) & SCHEDULED TRIBE (ST) CELL

Department of Science and Technology, Government of India has sanctioned a sum of Rs. 2.16 crore for three years from 2021-22 onwards for the "Establishment of Scheduled Caste (SC) and Scheduled Tribe (ST) Cell in the council. This project aims to encourage science and technological innovations to uplift the

livelihood of the people belonging to SC/ST community.

10.2.3. SCIENCE AND TECHNOLOGY PROJECTS

Financial support is provided to researchers and scientists of various sectors to carry out research under this scheme. During 2021-22, efforts were taken to support around 15 research projects at a cost of Rs.41.50 lakh.

10.2.4. YOUNG STUDENT SCIENTIST PROGRAMME

A total of 40 standard IX school students from each district are selected and motivated to take up science & research in future. With a cost of Rs.25 lakh, 640 students from 16 districts are benefited every year.

10.2.5. YOUNG SCIENTISTS FELLOWSHIP SCHEME

Through this scheme researchers under 40 years of age are provided with an opportunity to take up research for 2-6 months or learn

research techniques with a fellowship of Rs.10,000/- per month. Every year, 12 researchers are supported with a cost of Rs.3.50 lakh.

10.2.6. PARTIAL ASSISTANCE FOR SEMINAR / SYMPOSIUM / WORK SHOP

Educational and research institutions of our state are provided with partial financial assistance to organize seminar, symposia and workshops in the field of Science and Technology. Every year 125 programmes are conducted with a budget of Rs.25 lakh to benefit 9,500 students.

10.2.7. POPULARISATION OF SCIENCE AND TECHNOLOGY

The objective is to propagate Science and Technology by conducting Science Exhibitions, Training Programmes, Popular Lectures through Universities, Colleges and Voluntary Organizations. Every year, around 50 events are supported at a cost of Rs.10 lakh, benefitting 4000 people.

10.2.8. TRAVEL GRANT FOR YOUNG SCIENTISTS

The scheme provides opportunities to young scientists to present their research in International/ National conferences. With a cost of Rs.2.50 lakh, 10 scientists are supported every year.

10.2.9. ASSISTANCE FOR SCIENCE AND TECHNOLOGY PUBLICATIONS

This scheme is to encourage the people to bring out more Science and Technology publications in Tamil. Every year, 15 publications are supported with a cost of Rs.3 lakh.

10.2.10. TAMIL NADU SCIENTISTS AWARD (TANSA)

The scientists and researchers are recognized and honoured under this scheme with a cash prize of Rs.50,000/- and a citation. TANSA is given in 10 disciplines. Every year 10 scientists are awarded with a cost of Rs. 7 lakh.

10.2.11. INNOVATION AND PRODUCT DEVELOPMENT

Identified innovation will be supported financially with Rs.50,000/- to 1,00,000/- at a total cost of Rs.10 lakh.

10.2.12. QUALITY IMPROVEMENT OF SCIENCE EDUCATION IN RURAL SCHOOLS

Government school science teachers who are handling the Science subjects for 6th to 8th standard students are provided with in-service training. Every year 500 science teachers are trained with a cost of Rs.9 lakh.

10.2.13. DISSEMINATION OF INNOVATIVE TECHNOLOGY

Every year 18 programmes are supported with a cost of Rs.9 lakh benefitting 480 people for improving livelihood skills.

10.2.14. CAPACITY BUILDING PROGRAMME

Final year Polytechnic and Engineering students are trained with soft skills relevant to industries and motivated for self-employment at a cost of Rs.22.50 lakh every year.

10.2.15. INFRASTRUCTURE DEVELOPMENT

Infrastructural facilities such as laboratory equipment and instrument facilities in Government Arts and Science colleges of our state are improved through this scheme. Three Government Arts and Science colleges are supported every year with the sanction of Rs. 15 lakh.

10.2.16. PATENT INFORMATION CENTRE

The Patent Information Centre of the Council established 22 Intellectual Property Cells in Universities / Higher Educational Institutions in Tamil Nadu to promote Intellectual Property (IP) Filings. The application for Geographical Indication

(GI) registration of “Udangudi Panangarupatti” in association with Tirunelveli District Palmyra Products Co-operative Federation Limited and Mother Teresa University, filed by PIC of the council with Intellectual Property Office is under process.

10.2.17. SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) ACTIVITIES FOR SCHOOL CHILDREN

Selected School students from standard VI to VIII will be given detailed exposure in the field of Science, Technology, Engineering and Mathematics under STEM Activities at a total cost of Rs.19 lakh.

11. TAMIL NADU STATE URDU ACADEMY

11.1. The Government of Tamil Nadu established Tamil Nadu State Urdu Academy for promotion of Urdu language in the State. The Hon'ble Minister for Higher Education is the Chairperson of the Academy. At present, Urdu language is offered in Colleges in the State.

11.2. The Functions of the Academy include conduct of Mushairas (Conference) in association with National Chamber of Commerce and grant of award and cash prize to the poets and State rank holders in Urdu language.

12. TAMIL NADU STATE COUNCIL FOR TECHNICAL EDUCATION

12.1. The Tamil Nadu State Council for Technical Education Act, 2010 was enacted in the Tamil Nadu Legislative Assembly on 16.7.2010 and the Council was constituted on the same day.

12.2. MAJOR ACTIVITIES

- This Council coordinated the conduct of Special Training programme in English language (Bridge Course) at Anna University.
- An International Seminar on the present trend of Hybrid Pedagogy in English Language coordinated by Professors from Cambridge University was organized.
- “Train the Trainers Programme” was conducted for 180 Engineering College teachers by NAASCOM on “Foundation Skills

in Integrated Product Development (FSIPDP)” and study materials were distributed.

- To enhance the standard of teaching and ensure quality of education, and to study the gaps in terms of infrastructure, network facilities, human resources, supporting services, etc., a software using Zoho creator was developed and data is being collected.
- For the faculty of Government and Aided Engineering Colleges and also for Government and Aided Polytechnic Colleges a Professional Training Programme namely “Adaptive Design for Learning (ADL)” was conducted by experts through Webinars.

12.3. FUTURE ACTIVITIES

- Proposes to extend Partial Financial Assistance for conducting National and International Seminars / Conferences / Work

Shops on thrust areas of Engineering Technology.

- Proposes to conduct Training Programme for Placement Officers and Principals of Engineering and Polytechnics Colleges along with representatives of Industrial units through the Government College of Technology, Coimbatore.

13. TAMIL NADU UNMANNED AERIAL VEHICLES CORPORATION (TNUAV)

13.1. “Tamil Nadu Unmanned Aerial Vehicles Corporation” has been established in partnership with Madras Institute of Technology, Anna University to cater to the drone-based needs of various departments of Government of Tamil Nadu. This Corporation shall provide drone-based solutions and services in law enforcement, mining, revenue & municipal administration, urban development, water management, agriculture & allied sectors, disaster management, health, forestry, archaeology, GIS & environmental studies etc.,

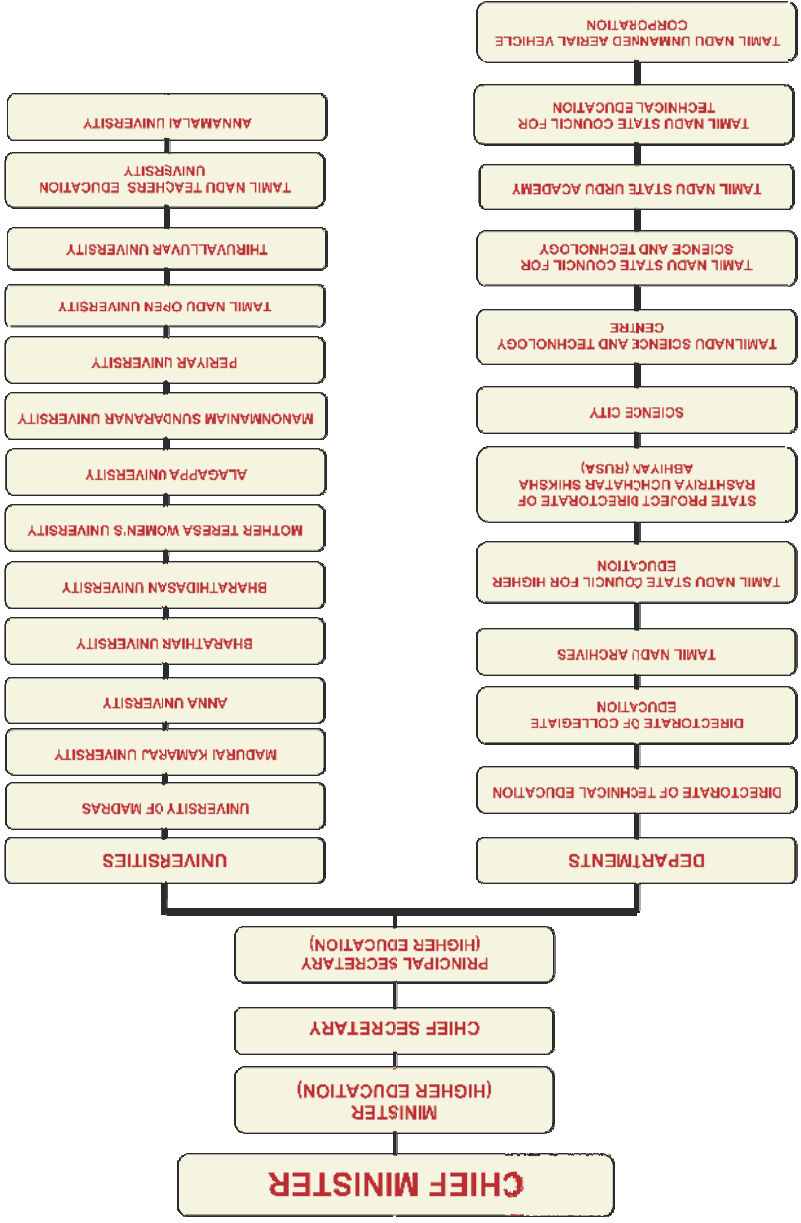
13.2. The Hon’ble Chief Minister of Tamil Nadu inaugurated the Tamil Nadu Unmanned Aerial Vehicles Corporation on 25.01.2022. This Corporation has been registered under the Companies Act as 100% Government owned Private Ltd. company. The corporation apart from designing, manufacturing, and trading in all types of drones will also provide a large number of drone-based services like agricultural pesticide

spraying monitoring, mapping, surveillance, search and rescue, volumetric analysis for the user department. The Corporation through its solutions/ service and products to various agencies will generate employment opportunities in the state.

13.3. As of now, the Tamil Nadu Unmanned Aerial Vehicles Corporation has deployed drones for Greater Chennai Corporation to spray larvicide on major water bodies of Chennai, Supplied Agriculture Sprayer Drone to Krishi Vigyan Kendra in Tamil Nadu Agricultural University. The Corporation has received orders for Supply of 50 Surveillance Drones to Tamil Nadu Fire and Rescue Services, Supply of delivery Drone to Coastal Security Group, Tamil Nadu Police and Supply of larvicide Sprayer Drone to Greater Chennai Corporation.

Dr. K. Ponmudy
Minister for Higher Education

ORGANOGRAM



TECHNICAL EDUCATION
DETAILS OF STUDENTS ADMITTED TO FIRST YEAR B.E. / B.TECH. / B.ARCH. DEGREE COURSES IN
ENGINEERING COLLEGES FOR THE YEAR 2021-22

TYPES OF COLLEGES	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 Colleges	11	4320	600	540	613	415	76	44	494	279	285	238	66	34	20	3	2154	1553	3707
Government Aided Colleges	3	2960	439	331	695	426	66	31	290	185	155	108	36	17	15	2	1696	1100	2796
Anna University Constituent Colleges	20	8790	1189	921	914	619	138	45	729	414	468	298	88	43	15	12	3541	2352	5893
Self Financing Colleges	539	184278	24687	13697	25767	12421	2861	740	13747	5748	8913	5174	1045	616	384	218	77404	38614	116018
TOTAL	573	200348	26915	15489	27989	13881	3141	860	15260	6626	9821	5818	1235	710	434	235	84795	43619	128414

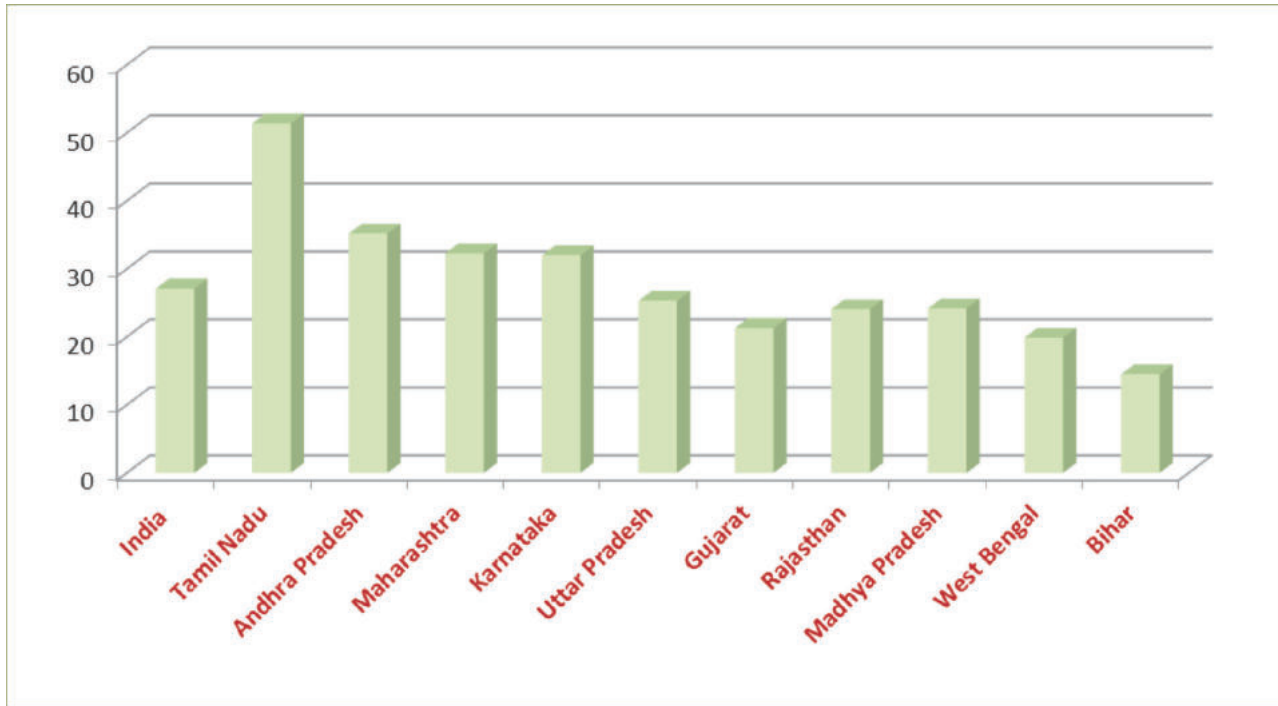
TECHNICAL EDUCATION
DETAILS OF STUDENTS ADMITTED TO FIRST YEAR DIPLOMA COURSES IN
POLYTECHNIC COLLEGES FOR THE YEAR 2021-22

TYPES 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 Institutions	51	17935	135	40	3890	387	534	35	3990	328	1940	262	212	47	54	5	10755	1084	11839
Government Aided Institutions	34	14135	239	17	3049	235	465	12	1922	114	768	77	128	12	20	3	6591	470	7061
Affiliated Institutions	4	253	11	1	53	1	5	0	29	0	38	0	0	0	1	0	137	2	139
Self Financing Institutions	408	135263	1790	224	9547	643	1479	61	7257	448	12360	1921	1217	265	421	115	34071	3677	37748
Hotel Management & Catering Technology Institutions	14	30	0	0	6	0	0	0	2	0	6	0	0	0	0	0	14	0	14
Total	509	167616	2175	282	16545	1246	2483	108	13200	890	15112	2260	1557	324	496	123	51568	5233	56801
Grand Total			2457		17791		2591		14090		17372		1881		619		56801		

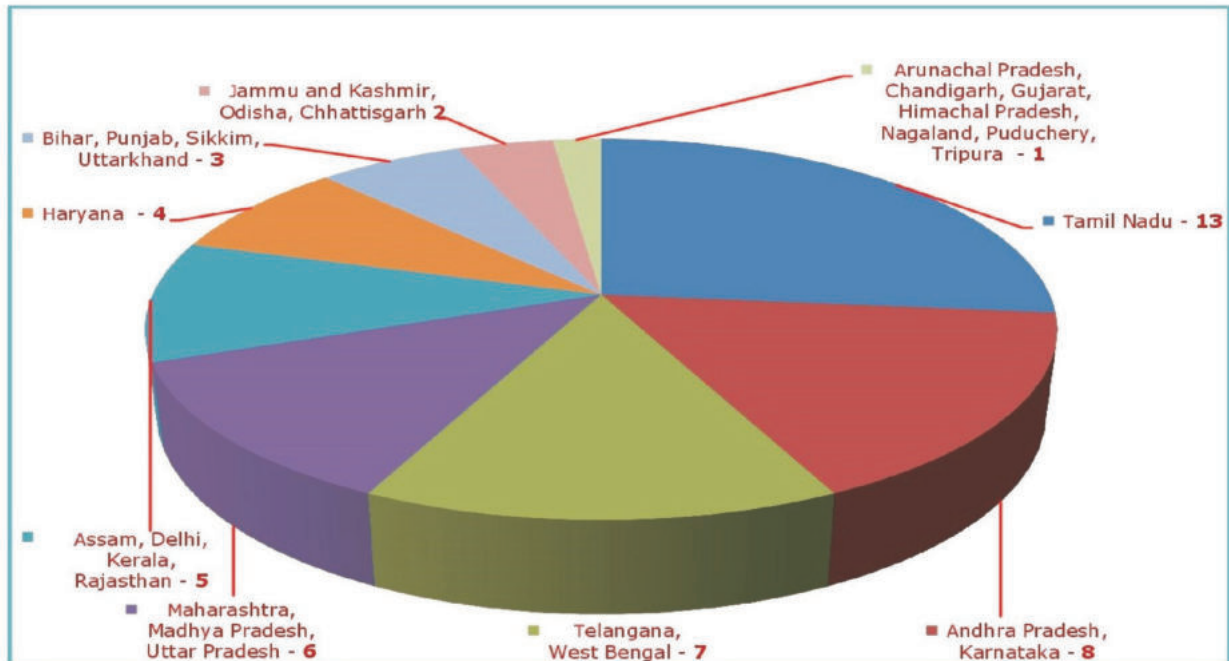
COLLEGIATE EDUCATION
NUMBER OF STUDENTS ADMITTED IN ARTS AND SCIENCE COLLEGES AND
COLLEGES OF EDUCATION DURING THE YEAR 2021-22

Types of Colleges	ADMITTED STRENGTH												Grand Total
	UG		PG		M.Phil.		B.Ed.		Ph.D.		Total		
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
Government Colleges	47976	61188	7544	15610	705	543	364	589	150	323	56739	78253	134992
Government Aided Colleges	30305	36754	5032	9587	143	212	145	1604	178	379	35803	48536	84339
Self Financing Colleges	68782	74648	9758	15789	331	530	20647	27791	170	430	99688	119188	218876
Total	147063	172590	22334	40986	1179	1285	21156	29984	498	1132	192230	245977	438207

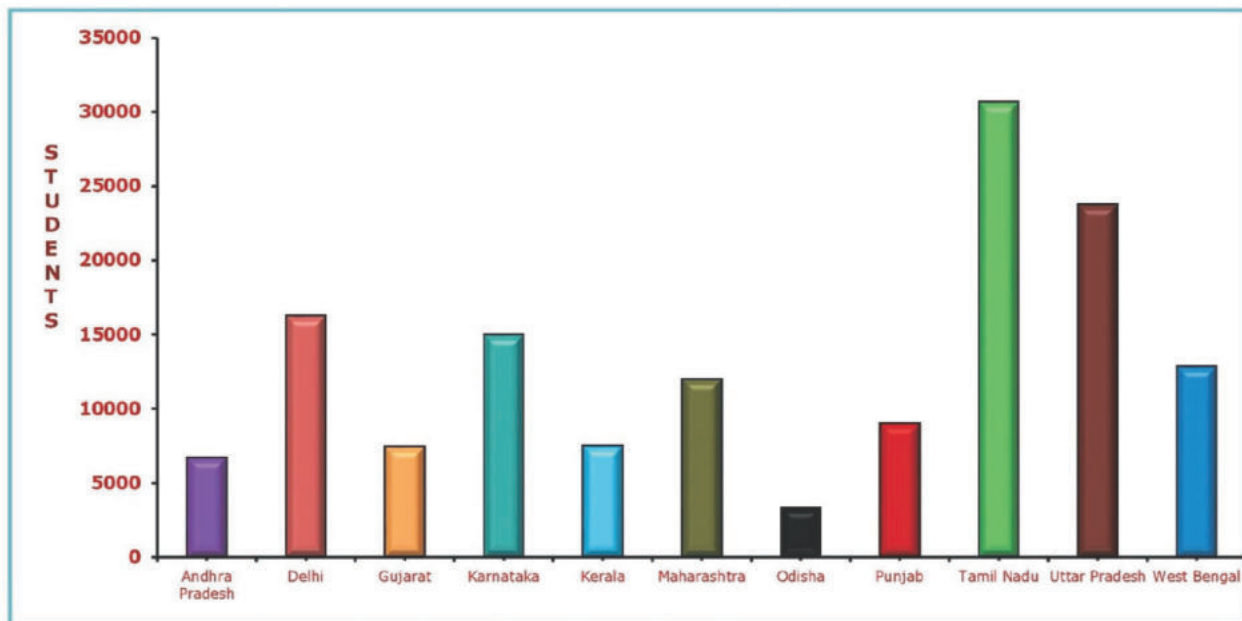
GROSS ENROLMENT RATIO IN INDIA, TAMIL NADU AND MAJOR STATES AS PER RECENT SURVEY



STATE – WISE DUAL MODE UNIVERSITIES AS PER RECENT SURVEY



STUDENTS ENROLMENT AT Ph.D LEVEL DEGREE AS PER RECENT SURVEY



STUDENTS ENROLMENT AT M.Phil. LEVEL DEGREE AS PER RECENT SURVEY

