

Annamalai  **University**
(Accredited with 'A' Grade by NAAC)

FACULTY OF ENGINEERING & TECHNOLOGY

M.E. / M.Tech. Degree Programmes

PROSPECTUS : 2021 – 2022
(Information & Instructions to Candidates)

University website: www.annamalaiuniversity.ac.in

Annamalai University

In the early 1920s Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi College, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. In 1928, Rajah Sir S.R.M. Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929). Now, the Annamalai University Act, 1928 has been repealed and replaced by the Annamalai University Act 2013 (Tamil Nadu Act 20 of 2013). Honourable Governor of Tamil Nadu is the Chancellor of the University.

“**The NIRF-2020**” by the Ministry of Human Resource Development (MHRD) has ranked the University in the band 101 - 150 in the University Category. In the Pharmacy Category the ranking is 12th in India. In the Medical Category the ranking is 35th.

“**The Times Higher Education World University Ranking - 2020**” has ranked Annamalai University in 1000+ for Overall category. In the Subject category Ranking, 2020, the University is ranked in the band of 501-600 for Life Sciences and 600+ for Pre-clinical, clinical & Health Subjects. 800+ in the Physical Sciences and Engineering subject.

“**The QS World University Ranking - 2020**” has ranked Annamalai University in the band of 291 - 300 in Asia Ranking and 39 in India Ranking.

“**The CWTS Leiden Ranking 2019** has ranked the University at 23rd based on the number of publications and 7th based on the proportion of publications.

The **SCImago Institutional Ranking** (2019) has ranked 9th in Tamil Nadu and 29th among the top 212 ranked institutions for Higher Education in India. **International Comparative Performance of India's Research Base** (2009-14) has rated the University as the top Indian Institute in Pharmacology, 17th among the top 30 Indian Universities in Publications. The **Global Exposure, Indian Science Ascending**, has ranked the University as 11th among the top 20 Indian Institutions in International Collaborations.

Annamalai University is one of the largest unitary, teaching, and residential Universities in Southern Asia comprising of 10 Faculties and 49 departments of study. This University has played a pivotal role in providing access to higher education to thousands of youth cutting across the social spectrum, especially from economically and socially disadvantaged classes. In this respect, this University's service to the nation is tremendous.

The University Library, named after the eminent scholar, statesman and former Vice-Chancellor Dr. Sir C.P. Ramaswami Aiyer, serves as knowledge hub for the students and the staff. Quite a good number of journals can be accessed through the Infonet facility. Science Direct is subscribed through which 340 journals can be accessed.

The sports complex of the University spreads over several acres, houses facilities for sports and games. Tennis court complex, basketball complex, volleyball complex, athletic standard track, cricket field & nets, football field, hockey field and a wooden floored indoor stadium are a few worth mentioning.

CONTENTS

I.	Faculty of Engineering & Technology	1
II.	Fee & Scholarship	4
III.	Eligibility Criteria	6
IV.	Allocation of Seats	7
V.	Mode of Selection	7
VI.	Code of Conduct	7
VII.	General Instructions	8

I. FACULTY OF ENGINEERING & TECHNOLOGY

The Faculty of Engineering and Technology (FEAT) was established in the year 1945, as the Second Engineering College of the then composite Madras State. The FEAT proudly celebrated its Golden Jubilee in the year 1996 and Diamond Jubilee in the year 2005.

FEAT has ten departments namely Civil Engineering, Civil and Structural Engineering, Mechanical Engineering, Manufacturing Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Chemical Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Information Technology and Pharmacy. The Departments of Civil Engineering, Civil and Structural Engineering, Mechanical Engineering and Electronics and Communication Engineering have been accredited by National Board of Accreditation (NBA) with 'A' Grade for three years from 2019-2020.

ACTIVITIES IN FEAT

- Academic programmes leading to the award of Bachelor, Master, and Doctoral degrees along with Diploma and Certificate Programmes in selected fields.
- Research programmes for Students, Faculty, and Professional staff.
- Special programmes, conferences, seminars, short term programmes, and consultancy services.
- Collaborative research programmes in co-ordination with government/non-governmental organizations.
- Extension services.

MEMORANDUM OF UNDERSTANDING (MOU)

The Faculty of Engineering has entered into MoU with:

- Ball State University of USA.
- Fukui University of Japan to enable the academic exchange of the Staff and Students between Annamalai University and the Fukui University.
- University of Technology, Sydney, Australia, for promotion of technical collaborations.
- The Department of Manufacturing Engineering has signed MoU with Kumamoto University, Japan and National Institute of Interdisciplinary Science & Technology (NIIST) for Collaborative Research in Materials Processing.
- Department of Pharmacy, FEAT has entered into a MoU with University of Michigan Center for Global Health, USA and Western University of Health Sciences, California USA for promotion of Academic & Research Collaboration in the area of Pharmacy Practice.
- The Department of Electronics and Instrumentation Engineering has entered into a MoU with Herriot Watt University, Edinburgh, U.K. for staff and student exchange and collaborative research in the area of Biomedical Engineering.
- NLC India Limited, Neyveli for offering Diploma in Mining Engineering Programme

Training and Placement Cell

Salient features of the activities of Training & Placement Cell, Faculty of Engineering and Technology, Annamalai University are:

- Impart training for placements (Soft skill training and Aptitude)
- Arranging Placements through Campus Drive
- Arranging In-plant Training/ Internships in core industries
- Arranging counselling for Career developments and Abroad studies
- Arranging coaching classes for Competitive Exams

Every year the campus placements are conducted by inviting the companies through campus drives. An average of 70- 80 percent of the eligible students have got placements both in Core and IT sectors through campuses.

Our Regular Recruiters are:

- Automotive axles Ltd
- Altimetrik
- HCL Technologies
- Super Auto Forge
- Cetex Petrochemicals
- SPIC
- Clarivate
- Dvara Kshetriya Gramin
- Craft Silicon
- Future Calls Technology Ltd
- TPRS Pvt.Ltd
- NLC India Limited
- Chemin Enviro Systems Pvt. Ltd
- Sai Life Science
- Apollo Pharmacy
- Religare Health Insurance Pvt.Ltd
- Thriveni Earth movers& Mines
- Episource
- Axis Global Automation
- ATOS Global IT Solutions
- Eparambara
- Tagros Chemicals Pvt. Ltd.
- TAG Info Solutions India Pvt. Ltd.

Choice Based Credit System (CBCS)

From the academic year 2000-2001, Choice Based Credit System is in vogue in the Faculty for all Under-graduate and Post-graduate programmes. These programmes offer a package of certain core courses and some elective courses that allow for effective interaction among students from different disciplines. The novelty of the programme consists of inter-disciplinary curriculum with a pronounced inclination towards industry oriented needs.

1.1 Branches of Study

The following programmes are offered by Faculty of Engineering & Technology, Annamalai University.

Post Graduate Programmes Offered

a) M.E /M.Tech Degree Programmes

The following P.G. Programmes are offered during the year **2021-2022**.

- 1) M.E. Environmental Engineering (Full-Time)
- 2) M.E. Water Resources Engineering and Management (Full-Time)
- 3) M.E. Structural Engineering (Full-Time)
- 4) M.E. Construction Engineering and Management (Full-Time)
- 5) M.E. Thermal Power Engineering (Full-Time)
- 6) M.E. Energy Engineering and Management (Full-Time)
- 7) M.E. Manufacturing Engineering (Full-Time)
- 8) M.E. Power System (Full-Time)
- 9) M.E. Communication Systems (Full-Time)
- 10) M.E. Process Control and Instrumentation (Full-Time)
- 11) M.E. Chemical Engineering (Full-Time)
- 12) M.Tech. Food Processing Technology (Full-Time)

b) MASTER OF PHARMACY PROGRAMMES

- 1) Master of Pharmacy (Industrial Pharmacy)
- 2) Master of Pharmacy (Pharmaceutical Quality Assurance)
- 3) Master of Pharmacy (Pharmacology)

Duration of the Programme

The duration of all the courses offered is two academic years comprising of four semesters for Full-Time (M.E. / M.Tech.).

II. FEE & SCHOLARSHIP

2.1 Tuition Fee

The details of Tuition Fee to be paid by the candidate are as follows

S. No.	Name of the Programme	I Installment (To be paid at the time of admission) (₹)	II Installment (₹)	Total Fee per annum (₹)
1.	M.E./M.Tech. All Branches (Except M.E. Power System, Process Control and Instrumentation, Communication Systems) (Full-Time)	31,760/-	25,700/-	57,460/-
2.	M.E. Power System, Process Control and Instrumentation, Communication Systems (Full-Time)	35,760/-	29,700/-	65,460/-

Note : The first instalment has to be paid at the time of admission.

2.2 Hostel Fee

Annamalai University is a residential University. Adequate Hostel accommodation is available. Candidates are advised to stay in the Hostel. The room rent and establishment charges are as given below:

Name of the Programme	Hostel Name	Caution Deposit (₹)	Annual Hostel & Mess Charges (₹)	Total Fee per annum (₹)
M.E. / M.Tech.	R.S.A. Hostel (for Men)	5,000/-	45,000/-	50,000/-
	E.T.G.J. Hostel (for Women)			
SC/SCA/ST Students	(any hostel)	5,000/-	19,000/- #	24,000/-

This fee has to be paid by the students at the time of joining the hostel and would exclusively cover. Admission Fees, Establishment, Room rent, Electrical and Misc. Charges only – Except Mess charges (Lumpsum Mess charges of Rs. 22000/- will be adjusted from their Scholarship amount).

2.3 SCHOLARSHIP

The students of Annamalai University can avail the Government Scholarships subject to eligibility.

Scholarships Sanctioned By the Government of Tamil Nadu

- 1) **Application Fee Concession to SC/ST and Converted Christian Students:** Entrance/ Course Application fees concession is granted to students belonging to SC/ST Community and Converted Christian by the Government Tamil Nadu (G.O. No. 111. 22.09.1998).

- 2) **Tuition Fee Concession to SC/ST and Converted Christian Students:** Full Tuition fee concession is granted to students belonging to SC/ST community and converted Christian under the rule 92 of Tamil Nadu Education Rules by the Government of Tamil Nadu [92-TNER].
- 3) **SC/ST Communities** whose Parent's/Guardian's income from all sources should **not exceed `2,50,000/- per annum, and Converted Christian (converted from SC/ST) ` 2,00,000/- per annum.**
- 4) **Other State Scholarship:**
 - i. Other State Scholarships for SC/ST/BC/OBC/EBC students.
 - ii. Puducherry State Scholarships only for Puducherry SC/ST Students.
 - iii. "ISHAN UDAY" Scholarship for Northern Eastern Region Students.
- 5) **Minority Scholarship:** Minority Scholarship award on the basis of merit cum means for minority community students.
- 6) **Higher Education Special Scholarship:** In addition to the Post Metric Scholarship, Higher Education Special Scholarship is awarded to the hostel students belonging to SC/ST and Converted Christian community and the number of scholarship is limited by the Government. The Annual income from all sources should not **exceed ` 2,50,000/- per annum.**
- 7) **BC/MBC/DNC Scholarship:** The Scholarship will be awarded to the Students belonging to **BC/MBC/DNC** communities whose Parent's/ Guardian's income from all sources should not **exceed ` 2,00,000/- per annum.**
- 8) **Fee Concession to Blind Students:** Under rule 92 (TNER), Full Tuition fees concession is granted to blind Students belonging to all communities whose parents/Guardians annual Income should not exceeds ` **24,000/-.**

<p>Note: For all Scholarship, Income Certificate taken after April 2021 should be produced.</p>

Fellowship / Scholarship sanctioned by various Funding Agencies

1. UGC Scheme for award of Post Graduate Scholarship for professional courses for SC/ST candidates.
2. Post Graduate Indira Gandhi Scholarship for single girl Child: This is only for the Candidate who happens to be single Girl child of the family (having no brother or sister) and who has taken admission in regular full time Master Degree course in recognised University or a Post Graduate College in conventional basic subject.

Note: This advertisement of the above Research Schemes will be published in all leading news papers and also the Guidelines available on the respective Website of the funding agencies.

2.4 STIPEND

Candidates who have passed the GATE examination will be eligible to get a stipend from AICTE. The continuation is depending on the performance in M.E./M.Tech. Examination.

III. M.E. ELIGIBILITY CRITERIA

Eligibility for M.E. / M.Tech. Degree Programmes (Full-Time)

Candidates, who have passed the Bachelor's Degree Programme of this University or any other University recognized as equivalent thereto by this University, are eligible for admission to the Masters Programmes.

- i) M.E. Environmental Engineering**
B.E. /B.Tech. Civil Engg. / Civil and Structural Engg./ Environmental Engg. / Mechanical Engg. / Industrial Engg. / Chemical Engg. / Biochemical Engg. / Biotechnology / Industrial Biotechnology / Chemical and Environmental Engineering Graduates.
- ii) M.E. Water Resources Engineering and Management**
B.E./ B. Tech. Civil Engg. / Civil and Structural Engg. / Environmental Engg. / Agricultural and Irrigation Engineering / Geo Informatics / Mechanical Engg. / B.Tech. Energy and Environmental Engineering Graduates.
- iii) M.E. Structural Engineering**
B.E. Civil Engg. / Civil and Structural Engineering Graduates.
- iv) M.E. Construction Engineering and Management**
B.E. Civil Engg. / Civil and Structural Engineering Graduates.
- v) M.E. Thermal Power Engineering**
B.E./B.Tech. Mechanical / Manufacturing / Automobile Engineering Graduates.
- vi) M.E. Energy Engineering and Management**
B.E./ B.Tech. Mechanical / Chemical Engineering Graduates.
- vii) M.E. Manufacturing Engineering**
B.E./ B.Tech (Mechanical / Production / Manufacturing/ Metallurgy Automobile / aeronautical / Marine Materials Science Engineering) Graduates.
- viii) M.E. Power System**
B.E./B.Tech Electrical and Electronics Engg. / AMIE in the relevant discipline is considered equivalent to B.E Graduates of any other authority accepted by the syndicate of this university as equivalent to thereto.
- ix) M.E. Communication Systems**
B.E./ B.Tech./ Electronics and Communication Engineering / Electrical and Electronics Engineering / Instrumentation and Control Engineering Graduates.
- x) M.E. Process Control and Instrumentation**
B.E. – Electronics and Instrumentation Engineering / Electrical and Electronics Engineering / Electronics and Communication Engineering / Instrumentation and Control Engineering / Instrumentation Engineering / Mechatronics / Biomedical Instrumentation Graduates.
- xi) M.E. Chemical Engineering**
BE/ B.Tech Chemical Engineering / Petroleum Engineering / Petrochemical Technology.
- xii) M.Tech. Food Processing Technology**
B.E./B.Tech. Chemical Engineering / B. Tech. Food Technology / Biotechnology / Biochemical Engineering / Agricultural Engineering.

IV. ALLOCATION OF SEATS

Reservation of Seats

Reservation of seats for candidates belonging to ST/SC/SCA/MBC/BC/ BCM/OC communities will be made as per the Rules of Reservations of the Government of Tamil Nadu.

Among the above reservations, 5% seats have been included for differently abled persons as per norms laid down by the Government of Tamil Nadu.

V. MODE OF SELECTION

Candidates who are interested in joining these programme for M.E./M.Tech. at Faculty of Engineering and Technology, Annamalai University, for the academic year 2021-2022 should have applied and also appeared for the counselling to be conducted by the Tamil Nadu Common Entrance Test, Government of Tamil Nadu, Chennai, the dates of which would have been announced by the TANCET. The details are available in the website www.annauniv.edu / Our University Web Site www.annamalaiuniversity.ac.in.

VI. CODE OF CONDUCT

The following code of conduct shall be observed by the students who are admitted.

- i. The students should conduct themselves in an exemplary manner so as to be model for other students.
- ii. All students will have to strictly adhere to the rules and regulations of the University.
- iii. **RAGGING:** The candidates should not indulge or participate in any kind of ragging. If they are found to have indulged in ragging in the past, or noticed later, the candidates will be removed from the roll of the institution at whatever stage of study and criminal action will be taken against the candidates.
- iv. **If any student is involved in ragging or any other anti- social activities, he/she will be expelled and criminal proceedings may be launched against him/her.**
- v. The students should be present during all working days and sincerely apply themselves to studies.
- vi. The students should attend the classes regularly and punctually and should fulfil the attendance requirement of 75% as prescribed by the University, to be eligible to appear for the University Examinations.
- vii. The campus is "Tobacco Free" and "Liquor Free". Any violation of this will result in dismissal from the programme.
- viii. Use of mobile phones and other electronic gadgets are not permitted in the class rooms, examination halls, faculty premises, university organized functions / programmes / extracurricular and co-curricular activities.

- ix. The students are forbidden from using motorized vehicles, including powered two wheelers, inside the campus.
- x. **Dress Code:** Students need to wear formal dress largely covering them like Sarees/ Churidhar with dupatta for ladies and Trousers, Pant & Shirt for men.

VII. GENERAL INSTRUCTIONS FOR APPLICANTS

- i. Tuition fee for each academic year should be paid well before the due date, failing which a fine as prescribed by the University will be charged. The Candidate shall not be permitted to appear for the University Examination without clearing the Tuition fee arrears.
- ii. Tuition fee for the entire programme together with arrears, if any, shall be payable by the student before Transfer Certificate is issued.
- iii. Special fee for the remaining period of programme shall be waived.
- iv. No certificate will be issued, unless the candidate has cleared all the arrears of fees etc., due to the University.
- v. Caution deposit shall be refunded on application after adjustment towards any dues from the student. Application for refund of caution deposit should be submitted within one year of completing the course.
- vi. With regard to any dispute arising in relation to admission, examinations, remittance of fees, etc., the place of jurisdiction for the purpose of filing a suit or preferring a complaint or taking any legal proceedings against the University, will be Chidambaram Town only.
- vii. Original Certificates submitted at the time of admission will be returned before the end of second semester. In case a candidate requires the original certificates for valid reasons, he/she may apply for the same with valid proof. The candidates are advised to have with them attested copies of mark lists or other certificates that may be required for applying scholarships/bank loan etc.

General Information

The following procedures should be followed for applying/getting certificates viz. Bonafide/ Course completion/Mark lists etc. with the fee prescribed by the University.

- i. **General:** Mark list for each Semester/Year during the period of study will be issued by the University and distributed through the respective department of study. On completion of the programme, Provisional Certificate and Transfer Certificate will also be distributed through the department concerned.
- ii. **Migration Certificate:** This certificate will be issued by the University Office ('K' Section) only on demand to those who have planned to undergo higher studies in any Educational Institution in India.

- iii. **Duplicate Certificate – Mark List/Degree/Transfer Certificate:** A certificate from the police department is required to be produced for the loss of certificates indicating that the certificates were actually lost beyond recovery.
- iv. **Degree Certificate:** Notification will be issued in the leading dailies during the month of September/October every year for calling of application forms for getting Degree Certificate at the Convocation. Students shall apply for the same in the prescribed form which can be obtained from the University.
- v. **Personal File:** Students are advised to maintain a personal file containing all academic records such as challan for remittance of tuition fee, exam fee, instrument fee, condonation fee etc. till completion of his/her studies
- vi. **Re-admission:** If any attendance deficiency during the tenure of his/her studies, shall apply for re-admission through the Heads concerned along with the photocopy of his/her previous semester/year mark list/s as proof for having appeared for the University Examinations.
- vii. **Change of Name/Date of Birth:** Candidate who wishes to change of Name, Date of Birth, of his/her name should be made only during the period of study by producing a copy of "Gazette Notification" from the respective Government No. such change shall be entertained after completion for his/her studies in the University.
- viii. **How to get Certificate:**
 - a. Students applied for any certificates in this University viz., Duplicate mark list, Degree Certificate, Transfer Certificate etc, either during the tenure of his/her studies or completion of the programme should get the same from the office or by post within a fortnight period from the date of filing application in the office. He/she should possess compulsorily **1)** a copy of letter where he/she has applied for **2)** a copy of remittance challan, **3)** and any other documents etc., whenever any lapse of the original submitted to University (or) loss in transaction.
 - b. If he/she does not receive the certificate(s) within the stipulated period, then he/she can immediately seek the assistance of the Section Head/Deputy Registrar of the 'K' Section with relevant copy of records that has been already submitted for claiming the certificates, so as to enable them to get the certificate from the office (or) necessary guidance will be provided for the same.
 - c. Students admitted on various programmes of the University, should get back his/her original certificates produced at the time of admission within three months either on completion of programme (or) discontinuing the same in the middle of the programme.
The University is not responsible for any lapse or damage of the certificates.

Note:

- Candidates belonging to Scheduled Tribe should produce Community Certificate obtained from a competent authority not below the rank of a Revenue Divisional Officer. A self attested photocopy or certified copy of the permanent community certificate card should be produced.
- Producing a false community, nativity or any other certificate, if detected later at any point of time during the course of study, will result in expulsion of the candidate and also criminal proceedings will be initiated against the candidate as well as the parents as per law.
- As number of fake community certificates are being encountered off late and in order to curb such practices, the authentication of the above certificate has to be verified and confirmed by the concerned authority, before the individual completes I year of the course. **The concerned candidate and parents should take necessary steps to that effect. Unless proof of authenticity of community certificate is received, the candidate will not be allowed to continue the II Year.**
- Community Certificate obtained from other states will not be considered and such candidate will be treated as to the **Open Category**.

REGISTRAR (i/c)
ANNAMALAI UNIVERSITY