



ANNAMALAI UNIVERSITY



DEPARTMENT OF ELECTRICAL ENGINEERING

FEAT



VISION

To develop the Department into a Centre of Excellence with a perspective to provide quality education and skill-based training with state-of-the-art technologies to the students, thereby enabling them to become achievers and contributors to the Industry, Society and Nation together with a sense of commitment to the profession.

MISSION

- To impart quality education in tune with emerging technological developments in the field of Electrical and Electronics Engineering.
- To provide practical hands-on-training with a view to understand the theoretical concepts and latest technological developments.
- To produce employable and self-employable graduates.
- To nurture the personality traits among the students in different dimensions emphasizing the ethical values and to address the diversified societal needs of the Nation.
- To create futuristic ambience with the state-of-the-art facilities for pursuing research.

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ENGINEERS DAY CELEBRATION

IEI (STUDENT'S CHAPTER)

The Engineers Day function was celebrated on behalf of the IEI Association on 15th September 2023 in the AU69 Hall of the Department. The Head of the Department Dr. B. Baskaran presided over the function. along with the Faculties and Students.

As the Father of Indian Engineering, Dr Mokshagundam Visvesvaraya's Day of Birth is celebrated as Engineers Day. Scholarship Scheme is also named after him which to date prosperous for students in engineering careers. The IEI Association Members volunteered to organize the Events and made an Efficacious event.



INAUGURAL FUNCTION

EEA & IEI

(STUDENT'S CHAPTER)



The Inaugural function of Association Activities was fit on 20th September 2023 in the AUMTECH 71 Hall. The Dean, Dr. C. Karthikeyan and Head of the Department Dr.B.Baskaran presided over the function and an alumnus Dr. K. Vetrivel, Deputy Director, NPTI, Southern Region delivered the Inaugural Address.

In the Presence of the Dignitaries, the Association Elected Members took the Position and addressed the Audience with the Oath to do their duty with at most sincerity in their time at the Association.

ELECTRICAL ENGINEERING ASSOCIATION (EEA)

Chairman	: M. Navinesh
General Secretary	: M. Manoranjitham
Joint Secretary	: M. Jeyasri
Literary Secretary	: K. Subharaj M. Aarthika
Joint Literary Secretary	: E. Thamizhseran M.H. Keerthika
Sports Secretary	: T. Guruprasath V. Porselvi
Joint Sports Secretary	: J.R. Ragulgandhi M. Prathini
Placement Secretary	: K.A.Sakthivasanthan
Joint Placement Secretary	: B. Manikandan R.A. Naveenaah
Asst. Placement Secretary	: P. Kalaivendhan
Placement In-charge	: R.Lavanya, M.Nanthitha S.S. Meenaloshini G. Yogesh M. Gopikrishnan
Internship In-charge	: T. Ashok, S. Vignesh E. Divyasri
Class Representatives	: C.Ajay, V.Nithinkrish S. Jagadheesan M. Saivigneshwa A.M. Sarjeet Kumar

THE INSTITUTION OF ENGINEERS (INDIA) STUDENTS' CHAPTER (IEI)

President	: M. Vivek
Vice President	: P. Subiksha
Treasurer	: S.J. Risheka
Directors	: S. Arun, T. Santhiya S. Ilakkiya L. Sethuraman V. Kamesh



All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



APPROVAL PROCESS 2023-24

Extension of Approval (EoA)

F.No. Southern/1-38948444054/2023/EOA

Date: 02-Jun-2023

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of Approval for the Academic Year 2023-24

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2023-24

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education) Regulations, 2020 notified on 4th February 2020 and amended on 24th February 2021 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to:

Permanent Id	1-2870850431	Application Id	1-38948444054
Name of the Institution	FACULTY OF ENGINEERING AND TECHNOLOGY	Name of the Society/Trust	ANNAMALAI UNIVERSITY
Institution Address	ANNAMALAI UNIVERSITY ANNAMALAINAGAR, ANNAMALAINAGAR, CUDDALORE, Tamil Nadu, 608002	Society/Trust Address	ANNAMALAI UNIVERSITY, ANNAMALAINAGAR, CUDDALORE, Tamil Nadu, 608002
Institution Type	State Government University	Region	Southern
Year of Establishment	1994		

To conduct following Courses with the Intake indicated below for the Academic Year 2023-24

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2022-23	Intake Approved for 2023-24	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
DIPLOMA	ENGINEERING AND TECHNOLOGY	DIPLOMA IN MINING ENGINEERING	NOT APPLICABLE	60	60	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	NOT APPLICABLE	120	120	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	NOT APPLICABLE	60	60	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND INSTRUMENTATION ENGINEERING	NOT APPLICABLE	60	60	NA	NA
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	INFORMATION TECHNOLOGY	NOT APPLICABLE	120	120	NA	NA



No	Authors	Article	Journal
1	N. Veeramuthulingam, A. Ezhilarasi and M. Ramaswamy	Vibration Analysis of BLDC Motor Drive Employing Model Reference Adaptive Controller	International Journal of System Assurance Engineering and Management, Vol.14, pp.2160-2175, Aug.2023.
2	Srilakshmi K, Arun Nambi P and Aravindhbabu P	Fuzzy Based Hybrid Controller for UPQC With Wind and Battery Storage Systems	International Journal of Electronics. August 2023, pp.1-26. https://www.tandfonline.com/doi/abs/10.1080/00207217.2023.2245193
3.	Sibbala Bhargava Reddy, Ashok Kumar, R., and Sreenivasan, G.	Enhancement Of ATC With FACTS Devices in Deregulated Power System Considering Various Contingency and Benefit Margins	Journal of Advanced Research in Applied Sciences and Engineering Technology, Aug.2023
4.	Sibbala Bhargava Reddy, Ashok Kumar, R., Sreenivasan, G., and Asokan, K	Whale Optimization Algorithm Based ATC Enhancement by Installing FACTS And Wind Generators in Deregulated Power System.	Journal of Harbin Engineering University, Vol.No.44, pp.364-375, Sep.2023.
5.	Praveen Kumar Thota, Ganapathy Somaskandan and Manikandan Mani	The Voltage Stability Analysis for Grid-Connected PV System Using Optimized Control Tested by IEEE 14 & 30 Bus System	International Journal of Experimental Research and Review, Vol. No.30, pp.109-118, Sep.2023.
6.	V. Logeshwari, M. Abirami, S. Subramanian, Hariprasath Manoharan	Multi-Objective Precise Phasor Measurement Locations to Assess Small-Signal Stability Using Dingo Optimizer	Optimal Control Applications and Methods, Wiley, Vol.No.45, Sep.2023.

No	Authors	Article	Journal
7.	Sathiyapoobalan Sundaralingam, Neela Ramanathan	Efficient Plastic Categorization for Recycling and Real-Time Annotated Data Collection with Tensor Flow Object Detection Model	Environmental Research Communications, Oct.2023.
8.	Srinivas Kunta, Kannan R and Padma S	PI Controller and Space Vector Modulation Based Direct Torque Control of Multi-Level Inverter Fed Induction Motor	Journal of Propulsion Technology, Vol.3, pp.1784- 1795, Oct.2023.
9.	Srinivas Kunta, Kannan R and Padma S	Fuzzy PI Controller and Space Vector Modulation Based Direct Torque Control of Multi-Level Inverter Fed Induction Motor	Chinese Journal of Computational Mechanics, Vol.5, pp.383-394, Oct.2023.
10.	Srinivas Kunta, Kannan R and Padma S	Direct Torque Control of Conventional Three-Phase Induction Motor Drive	High Technology Letters, Vol.10, pp.435-440, Oct.2023.
11.	Leo Arockia Raj, J P, Padma, S and Kannan R	PI And Fuzzy Logic Controlled Multiple Lift-Push- Pull Switched Capacitor Luo Converter	Journal of Propulsion Technology, Vol.44, pp.1774- 1783, Oct.2023.
12.	Manikandan K., Sasikumar S. and Arulraj R.	A Novelty Approach to Solve an Economic Dispatch Problem for A Renewable Integrated Micro-Grid Using Optimization Techniques	Electrical Engineering & Electromechanics, Vol.4, pp.83- 89, Oct.2023.
13.	Remala Geshma Kumari, Arivukkannu Ezhilarasi and Naresh Pasula	A Novel Single Switch Controlled Efficient Coupled Inductor-Based DC-DC Boost Converter	Indonesian Journal of Electrical Engineering and Computer Science, Vol.32(1), pp.61-70, Oct.2023.
14	Santosh B.S.S, Mohamed Thameem Ansari M and Kantarao P	Analysis Of Passive Partial Shading Mitigation Technique for PV Array	Journal of Renewable Energy and Environment, Vol.11, pp.135- 156, Oct.2023.
15	Sibbala Bhargava Reddy, Ashok Kumar, R., and Sreenivasan, G.	ATC Enhancement in Restructured Power System Using Whale Optimization Algorithm.	Przeglad Elektrotechniczny, Oct.2023, Vol.No.99,pp.34-40.
16	Srilakshmi K, Sravanthy G, Borra S R, Balachandran P K, Reddy G P, Aravindhababu P and Selvarajan S	Optimal Design of Solar/Wind/Battery and EV Fed UPQC For Power Quality and Power Flow Management Using Enhanced Most Valuable Player Algorithm	Frontiers in Energy Research, Jan.2024, Vol.11, Article No.1342085.

No	Authors	Article	Journal
17	Srilakshmi K, Teja Santosh D, Ramadevi A, Balachandran P K, Reddy G P, Aravindhbabu P, Colak I, Dhanamjayulu C, Chinthaginjala R K, and Khan B	Development Of Renewable Energy Fed Three-Level Hybrid Active Filter For EV Charging Station Load Using Jaya Grey Wolf Optimization	Scientific Reports, Feb.2024, 14(1), Article No.4429.
18	Vengadesan and Ashok Bakkiyaraj	Optimization Of Position and Rating of Shunt and Series Connected FACTS	AIMS Electronics and Electrical Engineering, Vol.8, pp.165-186, Mar.2024.
19	B.S.S. Santosh, G.Harish Kumar Varma and M.Mohamed Thameem Ansari	A Novel Cross Diagonal Pattern for Effective Shade Dispersion in TCT Configuration	Optik, International Journal for Light and Electron Optics, Elsevier Publications, pp.1-20, Mar.2024.
20	K.S.V.V. Prasada Rao, M. Anitha and V. Srinivasa Rao	Improved KY Buck Boost Converter with Meta Heuristic Optimisation for HRES Based EV Charging	International Journal of Electrical and Electronics Engineering, Vol.11(3), pp.25-41, March 2024.
21	Manikandan Sampath, Mohamed Thameem Ansari M and Venkatasubramanian Ramaswamy	An Efficient Minimum Cost Battery Charging and Discharging Scheduling Scheme for Electric Vehicle Using Hybrid Energy Valley-Pathfinder Algorithm	Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Taylor & Francis Publications, Vol.46, pp.5474-5496, Mar.2024.
22	Sathiyapoobalan Sundaralingam and Neela Ramanathan	Recyclable Plastic Waste Segregation with Deep Learning-Based Hand-Eye Coordination	Environmental Research Communications, Apr.2024
23	Phani Kumar, E.B. Elanchezhian, Pragaspathy Subramani and S. Subramanian	Assessment Of Power Qualityenhancement in A Grid-Tied PV Network Via ANN-Based UPQC	<i>Recent Advances in Electrical & Electronic Engineering, Vol.No.17(5),2024.</i>
24	NSD Prakash Korlepara, EB Elanchezhian , S Pragaspathy , and S Subramanian	Novel Multi-Port Converter for Distributed MPPT Operation in Solar PV System	<i>Science and Technology for Energy Transition, Vol.No.79(5), June 2024.</i>

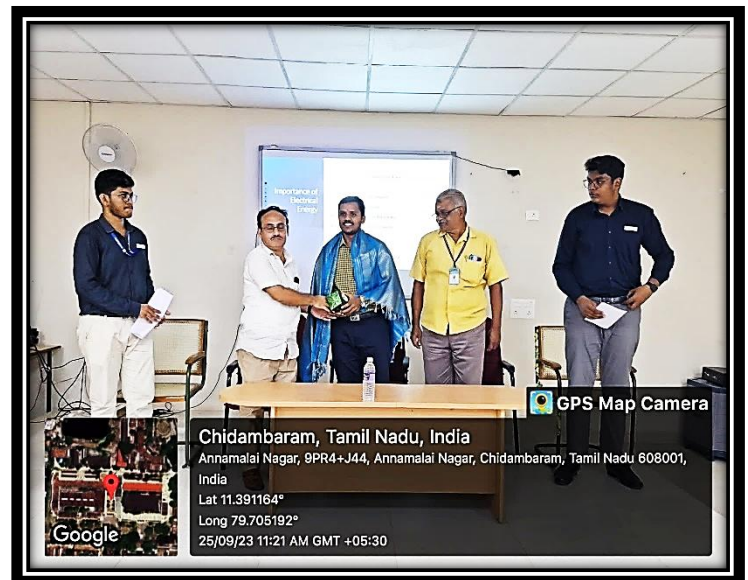
GUEST LECTURES

Guest 1: Dr. Santhosh.R

Guest 2: Er. Ramar.R

Guest Lecture 1: “Effects of Partial Shading in Renewable Energy Systems” was delivered by Dr. R.Santhosh, (Assistant Professor, EEE Department of SRKR Engineering College, Andhra Pradesh) on 25th September 2023.

Guest Lecture 2: “Global Renewable Power Generation Market and Technological Development” was delivered by Er. R. Ramar, (Deputy director NPTI, Neyveli) on 10th October 2023.



INFRASTRUCTURE DEVELOPMENT

A New Lab was Additional to the Department this Academic Year. The Protection Switchgear Simulation and Research Lab resides on the first floor of the EE building.

It contains PMU (Phasor Measuring Unit) along with advanced computers (LabVIEW Software) and electromechanical and numerical relays of standard companies are available in the lab.





LITERARY EVENTS

Literary Events were organized by the Engineering Association (EEA) and Institution of Engineers (India) Students Chapters from 09.10.23 onwards to 16.10.23 at AU 69 Hall of our Department. The Events aimed to encourage literary activities among the students and provide a platform for them to showcase their literary skills. Literary Events Initiated by Dr B. Baskaran HDEE.

Faculty Members Dr M. Mohamed Thameem Ansari, Dr R. Neela, Dr M. Anitha, Dr K. Gayathri and Student Sectaries Mr K Subharaj and Ms M. Aarthika, Association Chairman Mr M. Navinesh and Mr M. Vivek accompanied the events. About 150 students Participated in the Events.

*Knowledge With Action
Converts Adversity
into Prosperity*

~ AVUL.PAKIR. JAINULABDEEN
ABDUL KALAM





**BOOKS ARE
THE MEANS BY
WHICH WE
BUILD
BRIDGES
BETWEEN
CULTURES**

*~Dr. Sarvepalli
Radhakrishnan*

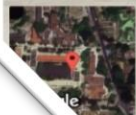


Chidambaram, Tamil Nadu, India
9PR4+96H, Annamalai Nagar, Chidambaram, Tamil Nadu 608001, India
Lat 11.39108°
Long 79.706053°
12/01/24 04:41 PM GMT +05:30

GPS Map Camera

PONGAL CELEBRATIONS

Pongal Celebration for the students was held on 12th January 2024 in the Department and Competition were held in the Drawing Hall, Annamalai University



Chidambaram, Tamil Nadu, India
9PR4+96H, Annamalai Nagar, Chidambaram, Tamil Nadu 608001, India
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9PR4+GM7, Sivapuri Main Rd, Annamalai Nagar, Chidambaram, Tamil Nadu 608001, India
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ANNUAL SPORTS MEET

Department of Electrical Engineering has Organized the sports extravaganza “**Electro Sports**” for the students during the 26th and 27th of February in the pavilion of Annamalai University in the Presence of Dr B. Baskaran Prof & Head Department of Electrical Engineering.

Students actively participated in various sports events like throw ball, volleyball, football, basketball, Badminton, Cricket, Chess, and Kabaddi.



WHATEVER YOU WANT TO
DO, DO WITH FULL PASSION
AND WORK HARD
TOWARDS IT. DON'T LOOK
ANYWHERE ELSE.

VIRAT KOHLI

***ELECTRO
SPORTS'24***

W O M E N ' S D A Y C E L E B R A T I O N S

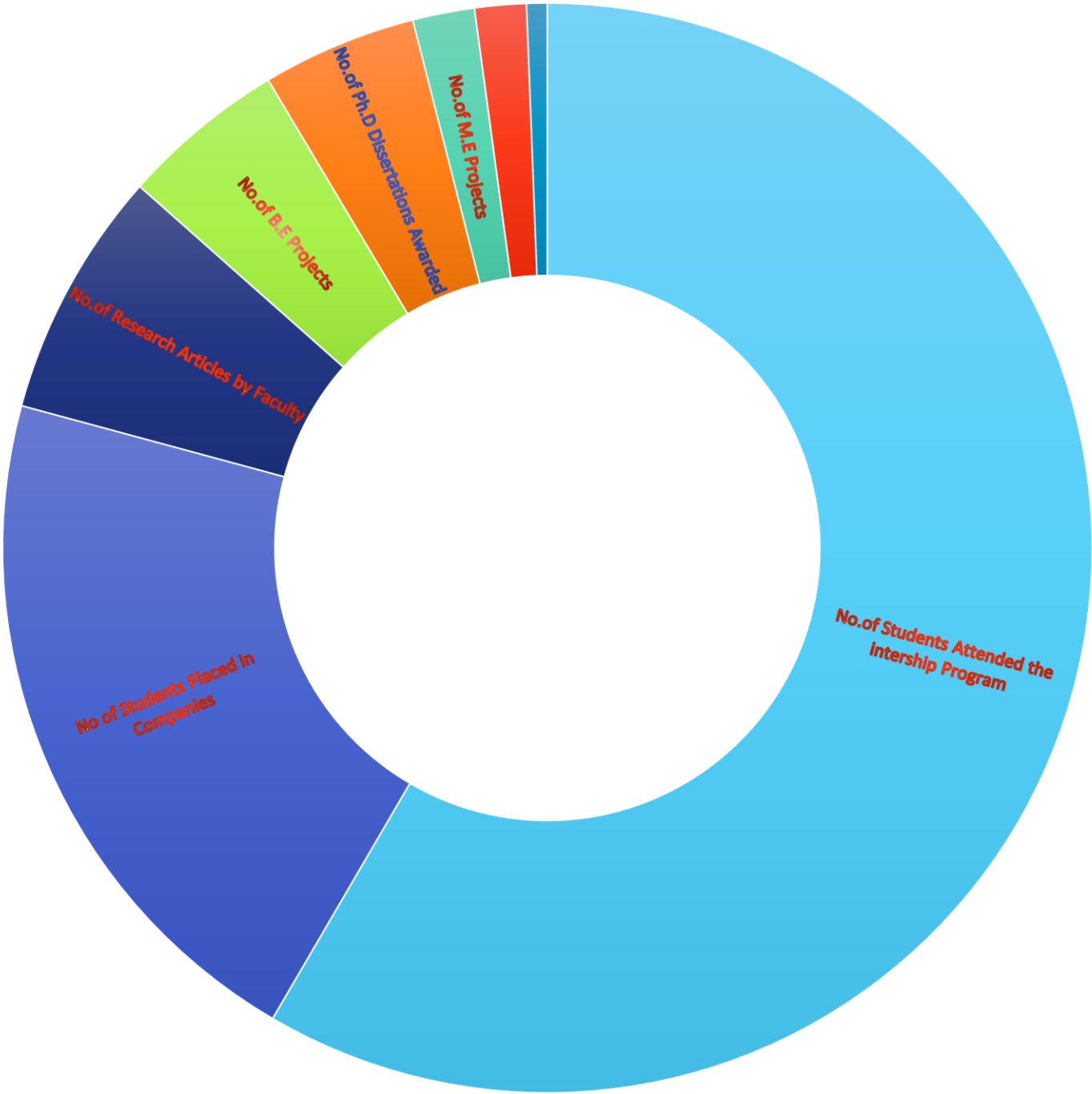
Women's Day celebrations were held on 8th March 2024 in AU69 hall of Department of Electrical Engineering.



Chief guest Dr. S. Poongothai, Professor and Head of the Department of Civil Engineering delivered a speech on the topic “Theme of International Women’s Day 2024

ACADEMIC RESEARCH & PROGRESS

- No. of Students Placed in Companies
- No. of Students Attended the Internship Program
- No. of B.E Projects
- No. of M.E Projects
- No. of Ph.D Dissertations Awarded
- No. of Students Admitted to Research
- No. of Research Articles by Faculty
- No. of Existing Research Projects

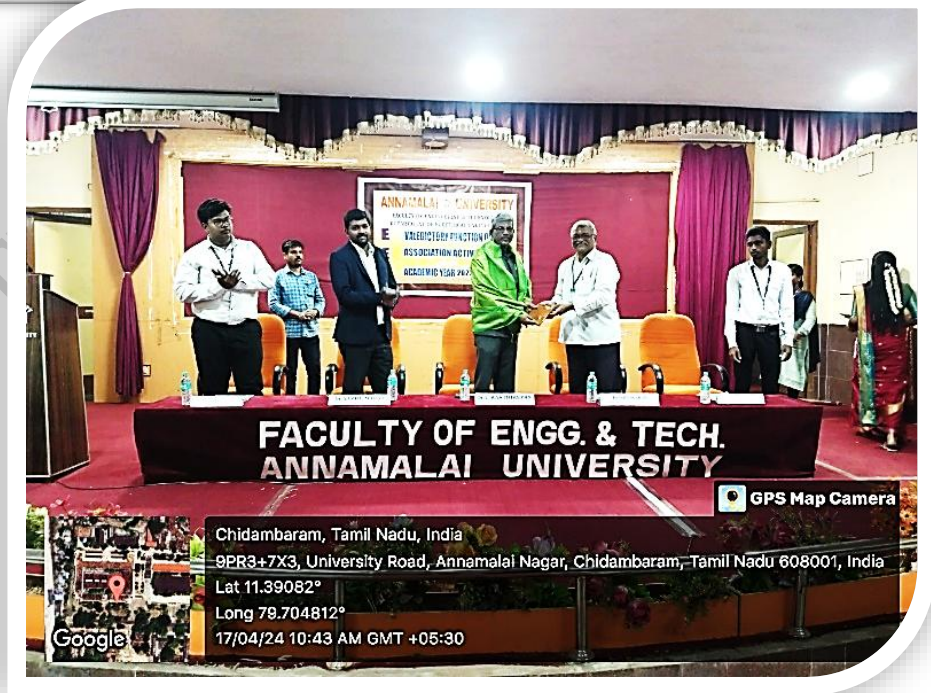
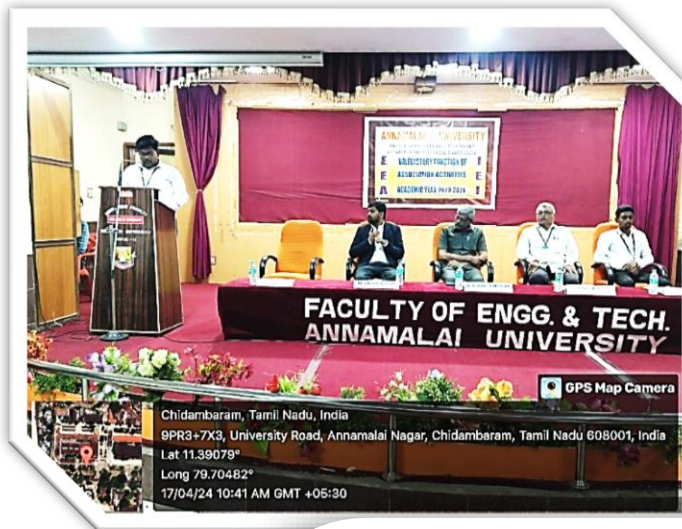


VALEDICTORY FUNCTION

ASSOCIATION

ACTIVITIES '23-24

The valedictory function for the academic year 2023-2024 was held on 17th April 2024 in AUMTECH hall. The Dean, Dr. C. Karthikeyan presided over the function and Mr. Ezhimaaran Arumugam, Co-founder and Managing director of Axis Global Automation, delivered the valedictory address. Students of 2nd, 3rd and 4th year were awarded with certificates for their winning in Electro Sports and Association Activities





Commemorative Photo of Graduation Batch'24
(FEAT Main Block Entrance-Vintage Spot)

EDITOR - IN - CHIEF

Dr. I. A. Chidambaram, Professor / EEE

Editorial Team

Dr. M. Mohammed Thameem Ansari, Professor/EEE

Dr. R. Bensraj, Associate Professor/EEE

Dr. S. Sasikumar, Associate Professor/EEE

ELECTRICAL ENGINEERING, AM