ANNAMALAI UNIVERSITY

(A State University Accredited with 'A+' Grade by NAAC)

Faculty of Engineering & Technology

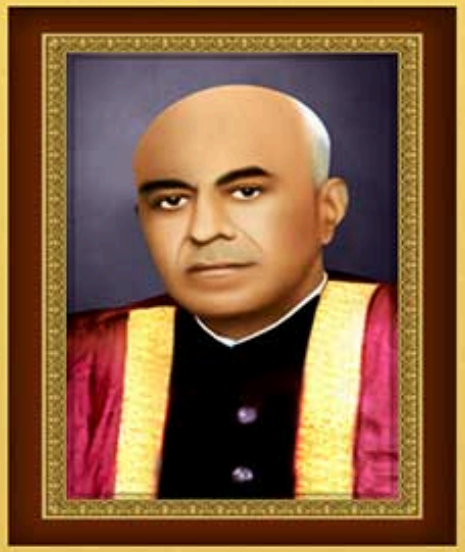
Department of Chemical Engineering

TECHAZINE

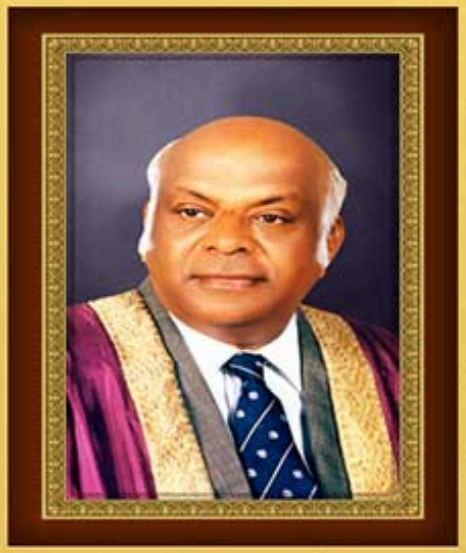
2024

The Great Philanthropists – The Founders and Patrons of Annamalai University

Rajah Sir S.R.M.Annamalai Chettiar
First Founder Pro-Chancellor



Rajah Sir M.A.Muthiah Chettiar
Second Founder Pro-Chancellor



Dr.M.A.M. Ramaswamy Chettiar
Third Founder Pro-Chancellor

2024

ANNAMALAI UNIVERSITY

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ABOUT THE INSTITUTE

In the early 1920s, to serve the downtrodden and to promote Tamil Literature, Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi College, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College in a rural setup 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).

Accolades

Annamalai University, accredited with 'A+' Grade by **NAAC** in 2022, is one of India's largest public residential universities with 10 Faculties and 55 departments of study. Sprawling over 950 Acres of land, the University does yeoman service in taking education to the doorsteps of the people who are otherwise 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.

"The NIRF-2021" 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 16th in India. In the Medical Category the ranking is 40th

"**The Times Higher Education World University Ranking – 2022**" has ranked Annamalai University in 1200+ for Overall category. In the Subject Category Ranking, 2022, the University is ranked 601+ for Clinical & Health Subjects, 801+ for Life Sciences and 1000+ in the Physical Sciences.

"**The QS World University Ranking – 2021**" has ranked Annamalai University in the band of 301-350 in Asia Ranking.

"The CWTS Leiden Ranking 2019", on scientific impact of universities and on universities involvement in scientific collaboration & scientific performance, has ranked the University at 23rd based on the number of publications and 7th based on the proportion of publications that, compared with other publications in the same field and in the same year, belong to the top 10% most frequently cited

" **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), a report Published by Elsevier in April, 2016, prepared in collaboration with the Department of Science and Technology, Ministry of Science, Government of India has rated the University as the top Indian Institute in pharmacology, 17th among the top 30 Indian University in Publication with highest subject area Publication Count in Pharmacology.

As far as the Global Exposure, Indian Science Ascending, a Springer Nature report, done in conjunction with Confederation of Indian Industries, has ranked the University as 11th among the top 20 Indian Institutions in International Collaborations.

The University has participated in the Southern (Antarctic) Ocean Expeditions (SOE) organized by National Centre for Antarctic Ocean Research 2011-12 onwards.

Research & Partnership

Annamalai University has a commendable track record in projects and Publications and has been awarded the PURSE Programme by the Department of Science and Technology. Ten departments are supported by UGC-SAP, ten by DST-FIST and two departments have attained the status of Centre of Advanced Study. Annamalai University has joint research and innovation partnerships with 24 Institutions across the USA, Europe, Australia, Japan, and the UK. The list of partners includes prestigious institutes like Karolinska Institute, John Hopkins University, and University of Michigan amongst others.

Two of the most notable international collaborations in which Annamalai University is the Coordinating Institute include the Indo-EU FUNCFOOD Project and the 21st Century Indo-US Knowledge Initiative. There are several ongoing research projects with international foundations and industrial players like Bayer, Cavin Kare, Dow Agrosciences, Bill & Melinda Gates Foundation, HCL, L&T, Accenture, and Huawei.

MoUs & Patents

To its credit, The University has obtained 15 Patents and has 40 MoUs with research partners like FAO, IRRI and USDA

Institutional Social Responsibility Activities

To its credit, The University has obtained 15 Patents and has 40 MoUs with research partners like FAO, IRRI and USDA the ISR activities of the University include, Hospital on Wheels, Free Medical and Dental Camps in Villages, Lifestyle & Hygiene Awareness, Rural & Urban Health Centres through the Faculty of Medicine and Dentistry which is attached with a 1400 bedded hospital. The Faculty of Agriculture carries out extension activities like Agri-Preneurship Development Programme, Sustainable Livelihood Projects for Tsunami affected people and Training Farmers in Integrated Farming.

EDITORIAL COMMITTEE

ANNAMALAI UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF CHEMICAL ENGINEERING

TECHNOLOGY ASSOCIATION OFFICE BEARERS (2023-2024)

PRESIDENT: DR.R.DHANASEKAR

STAFF ADVISOR: DR.R.RAMSENTHIL

Activity	Year	Name
Technology Association	IV YEAR	B.SENTHILKUMAR
	III YEAR	K.THILAKSINGH
Placement	IV YEAR	K.PRASANTH
	III YEAR	A.TAMILSELVAN
	II YEAR	S.VALLIKANNU SOWMIYA
Seminar	IV YEAR	K.MANIKANDAN
	III YEAR	P.HARI PRASATH
	II YEAR	A.SUDESH
IICHE	IV YEAR	T.SHAKIL SRIRAM
	III YEAR	C.V.AMUDHAVAN
	II YEAR	S.JAYASREE
IEI	IV YEAR	S.VASANTH
	III YEAR	R.VIJAYA VEERA PRABU
	II YEAR	M.PRAVIN KUMAR
Industrial Visit / Internship	IV YEAR	K.DHARCHASACAN
	III YEAR	R.RAJKUMAR
	II YEAR	C.MUTHURAJ

CLUB INCHARGE (2023-2024)

Activity	Year	Name
Literary	IV YEAR	K.RANJITH
	III YEAR	R.YASWANTHINI
	II YEAR	S.MONIKRAJ
Technical	IV YEAR	P.PRATHEEPAN
	III YEAR	R.VISHNU
	II YEAR	M.S.MANMOHAN
Sports	IV YEAR	P.CHANDRAPRAKASH
	III YEAR	K.SURENDER
	II YEAR	S.KRISHNAKUMAR
Innovation	IV YEAR	S.HEHRAM
	III YEAR	T.KRISHNA
	II YEAR	V.SHREEMAN
Social Responsibility	IV YEAR	K.V.MAHIBALAN
	III YEAR	A.LAKSHAYA
	II YEAR	G.UTHAYAKUMAR
Cultural	IV YEAR	R.HARISH
	III YEAR	T.SANGAMITHRA
Photography& Filmography	IV YEAR	A.KISHORE
	III YEAR	S.POOVARASAN
	II YEAR	M.BALAJI
Yoga & Meditation	IV YEAR	S.M.AGILAN
	III YEAR	KOUSIK SUNDAR
	II YEAR	R.JAWAHARLAL NEHRU

CLASS REPRESENTATIVE (2023-2024)

Year	Name
IV YEAR	VEDULA SAIRAMA SRINIVASA PHANINDRA
III YEAR	R.KARTHIKRAJA
II YEAR	B.HARINESH

DEPARTMENT OF CHEMICAL ENGINEERING
FACULTY DETAILS

s.no	Name	Designation
1	Dr.C.Karthikeyan	Professor & DEAN
2	Dr.R.Dhanasekar	Professor & Head
3	Dr.R.Saravanan	Professor
4	Dr.P.Mullai	Professor
5	Dr.B.Preetha	Professor
6	Dr.M.Thenmozhi	Professor
7	Dr.M.Rajasimman	Professor
8	Dr.R.Muthuvelayudham	Professor
9	Dr.R.Ravi	Professor
10	Dr.B.Chirsabesan	Professor
11	Dr.B.Suresh	Professor
12	Dr.S.Anhuradha	Associate Professor
13	Dr.S.Dhanasekar	Associate Professor
14	Dr.K.Thirumavalavan	Assoviate Professor
15	Dr.M.Vijay	Associate Professor & Director in Disaster Management
16	Dr.R.Ramsenthil	Associate Professor
17	Dr.C.S.Rathnasabapathy	Associate Professor
18	Dr.V.Saravanan	Associate Professor
19	Dr.K.Manikandan	Associate Professor
20	Dr.T.Balamurali	Associate Professor

Department of Chemical Engineering
Non-Teaching Staff

S.No	Name of Staff	Designation
1	Mr.Ponraj	Liaison Officer
2	Mr.E.Sankaran	ASO
3	Mr.G.Senthilkumar	ASO
4	Mr.M.Ebisankar	Instructor Spl.Grade
5	Mr.B.Karunakaran	Instructor Spl.Grade
6	Mr.Sudhakar	Instructor Spl.Grade
7	Mr.S.Nandhakumar	Instructor Spl.Grade
8	Mr.Arokiaraj	Instructor Spl.Grade
9	Mr.P.Sugumaran	Instructor Spl.Grade
10	Mr.S.Manohar	Instructor Spl.Grade
11	Mr.A.Guna	Instructor Spl.Grade
12	Mr.J.Aravind	Instructor Spl.Grade
13	Mr.P.Ramkumar	Instructor Spl.Grade
14	Mr.A.Santhakumar	Instructor Spl.Grade
15	Mr.S.Nagaiya	Instructor Spl.Grade
16	Mrs.Sumathi	Instructor Spl.Grade
17	Mr.G.Kannan	Junior Tech. Officer Gr-II
18	Mr.D.Harikumar	Junior Tech. Officer Gr-II
19	Mr.A.J.Umar Basha	Junior Tech. Officer Gr-II
20	Mr.B.Prabhusankar	Technical Assistant
21	Mr.K.Sampath	Technical Assistant
22	Mr.P.Siva	Technical Assistant
23	Mr.V.Saravanan	Technical Assistant
24	Mr.T.Pasupathi	Lab Technician
25	Mr.S.Balakumar	Helper
26	Mr.G.Sasi Kumar	Semi Skilled Helper
27	Mr.K.Sakthivel	Semi Skilled Helper
28	Mr.K.Manikandan	Helper

ANNAMALAI UNIVERSITY

Motto: With Courage and Faith

Vision

Providing educational opportunities to aspiring students with a view to imbibe the essential concepts along with emergent developments in the chosen fields of study, Instilling the mindset and measures for cultural and social upliftment, and Contributing to the national paradigm of collective responsibility in the path towards growth and prosperity

Mission

- To reach the unreached learners with high-quality mentoring and affordable higher education so as to transform them into successful professionals
- To mould the thought-pattern and effect multi-skilling of the learners in tune with the contemporary developments
- To stick to the governance culture such that the leadership and stakeholders of the institution accelerate performance and espouse to probity

Objectives

- Offer affordably relevant contemporary programs of study on a large scale making the region enriched in intellect and diversified in skills.
- Undertake admirably upfront research pursuits making the institution advanced in newish thinking, inventive curiosity and inspiring outcome.
- Preserve faithfully the nation's cultural riches and traditional values by thoughtfully offering adequate and advanced learning opportunities.

Quality Policy

Stand unequivocally committed towards quality ever enshrined in the soul of the University and accountable through processes of unprejudiced continuous ruminations

FACULTY OF ENGINEERING AND TECHNOLOGY

VISION

Providing world class quality education with strong ethical values to nurture and develop outstanding professionals fit for globally competitive environment

MISSION

- Provide quality technical education with a sound footing on basic engineering principles, technical and managerial skills, and innovative research capabilities.
- Transform the students into outstanding professionals and technocrats with strong ethical values capable of creating, developing and managing global engineering enterprises.
- Develop a Global Knowledge Hub, striving continuously in pursuit of excellence in Education, Research, Entrepreneurship and Technological services to the Industry and Society.
- Inculcate the importance and methodology of life-long learning to move forward with updated knowledge to face the challenges of tomorrow.

With the objective and a dynamic vision to support contemporary Engineering, 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. The FEAT has eleven departments of study namely Chemical Engineering, Civil Engineering, Civil & Structural Engineering, Computer Science & Engineering, Electrical Engineering, Electronics and Communication Engineering, Electronics & Instrumentation Engineering, Information Technology, Mechanical Engineering, Manufacturing Engineering and Pharmacy.

ABOUT THE DEPARTMENT

VISION

"Strive to be widely acknowledged as a department imparting Chemical Engineering with a strong three-pronged commitment to education, research and extension to effectively address the societal needs fostered by a culture encompassing innovation, ethics and excellence and by embracing the good practices in education"

MISSION

- Impart quality Chemical Engineering education through a carefully devised program garnered by a curriculum meeting the global benchmarks with an extensive exposure to fundamentals and industrial applications
- Transform the students and render them to take up successful careers in Chemical Engineering and prepare them to be leaders and responsible citizens in order to contribute to the society by exhibiting highest degree of professional standards, integrity and ethics.
- Expose the students to real time industrial problems and imbibe entrepreneurship by engaging them with interactions involving experts from the industry and the Alumni.
- Infuse the students with social responsibility to meet the future challenges to provide pertinent solutions for sustainable development through professional competency.

The Department of Chemical Engineering, a DST–FIST sponsored department, was started in the year 1945. It was the second college to offer an undergraduate programme in Chemical Engineering in Tamil Nadu. Total outlay of the funding attracted by the department from various funding agencies is 341.51 Lakhs. All the laboratories are well equipped with most modern equipment. The department offers connsultancies to various leading industries.

The first PhD of the Faculty of Engineering and Technology is from this Department and has thus far produced 104 Ph.Ds. The department offers 12 programmes through Distance Education. It has an excellent industrial tie up. The department boasts an unparalleled support from its Alumni.

B.E. (Chemical Engineering) Program Outcomes

PO 1 Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2 Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3 Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4 Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5 Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6 The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7 Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9 Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11 Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12 Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Faculty Publication

S.No	Name	Subject	Details
1	M. Rajasimman	An absorber of parabolic trough collector for hydrogen production in a solid oxide fuel	Fuel, 343, 127982, July, 2023
2	V.Saravanan	Bioremediation of plastics by the help of microbial tool: A way for control of plastic pollution	Sustainable Chemistry for the Environment, (3), July -2024
3	M. Rajasimman	Physico-chemical and biological remediation techniques for the elimination of endocrine-disrupting hazardous chemicals.	Environmental Research, 232, 116363.Septmber 2023
4	M. Rajasimman C. Karthikeyan	Column studies on sorption of Cr (VI) from aqueous and electroplating wastewater using acid-treated marine brown algae Sargassum myriocystum	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 45 (4), 9761-9778, September 2023
5	M. Rajasimman	Maximizing sustainable hydrogen and ZnO nanoparticles production from Goshala wastes with nanoparticles of ZnSO4 and NaBH4	Fuel, 349, 128625, October 2023
6	V Saravanan M Rajasimman,	Experimental investigations and kinetic modeling of removal of acrylonitrile using hybrid membrane bioreactor	Biomass Conversion and Biorefinery, 13(15) 1-19, October -2023
7	P.Mullai	Energy generation from bioelectrochemical techniques: Concepts, reactor configurations and modeling approaches	Chemosphere
8	V Saravanan M Rajasimman	Efficient removal of methylene blue dye by iron nanoparticles synthesized by a novel green method using jujube leaf extract: characterization, kinetics, and isotherm studies	Biomass Conversion and Biorefinery, 13(17) 1-17, November -2023
9	V Saravanan M Rajasimman	Adsorption isotherm and kinetic characteristics of sawdust, shrimp shell, and wild sugarcane-based activated carbon for CO2 capture	Biomass Conversion and Biorefinery, 13, (17) 1-20, November -2023

Faculty Publication

S.No	Name	Subject	Details
10	M. Rajasimman	Sustainable remediation of toxic congo red dye pollution using bio based carbon nanocomposite: Modelling and performance evaluation	Chemosphere, 343 140206, December 2023
11	M. Rajasimman	Emission and performance analysis of pongamia Pinnata methyl ester with diesel - derived from Heterogeneous nano catalyst	Gradiva review journal, 9 (7), 327-332, December 2023
12	M. Rajasimman	Bio-Waste Based Green Nanocomposite for The Removal of Diethyl Phthalate (DEP)	Gradiva Review Journal, 9 (11), December, 2023
13	M. Rajasimman	Sustainable development and analysis of a novel bio-derived (biochar) nanocomposite for the remediation of carbamazepine from aqueous solution	Chemosphere, 347, 140696, January 2024
14	M. Rajasimman	Exploring the diverse applications of Carbohydrate macromolecules in food, pharmaceutical, and environmental technologies	Environmental Research, 240, 117521, January 2024
15	M. Rajasimman	Utilization of nano materials in hydrogen production - Emerging technologies and its advancements: An overview	International Journal of Hydrogen Energy, 52 (Part B), 140 -158, January 2024
16	M. Rajasimman	Amplifying power generation in microbial fuel cells with cathode catalyst of graphite-based nanomaterials	International Journal of Hydrogen Energy, 52 (Part C), 257-267. January 2024
17	M. Rajasimman	Influence of nanopores volumes in hydrogen absorption properties of B4C and WC carbide-derived carbon nanomaterials	International Journal of Hydrogen Energy, 52 (Part C), 443-455, January 2024
18	M. Rajasimman	Deep learning for the encounter of inorganic nanomaterial for efficient photochemical hydrogen production	International Journal of Hydrogen Energy, 52 (Part C), 664-673, January 2024
19	M. Rajasimman	Nano Materials for Green Hydrogen Production: Technical Insights on Nano Material Selection, Properties, Production Routes and Commercial Applications	International Journal of Hydrogen Energy, 52 (Part C), 674-686, January 2024

Faculty Publication

S.No	Name	Subject	Details
20	M. Rajasimman	Enhanced machine learning for Nanomaterial Identification of photo thermal Hydrogen Production	International Journal of Hydrogen Energy, 52 (Part C), 696-708, January 2024
21	V Saravanan	Pomegranate peel utilization by an indigenous fungal strain of Trichoderma reesei NCIM 1186: Optimization and Kinetics studies on production of cellulase	Biomass Conversion and Biorefinery, 14, 6435-6453, January 2024
22	P.Mullai	Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater	Journal of the Taiwan Institute of Chemical Engineers, 105381, February 2024,
23	M. Rajasimman	Sustainable remediation of pesticide pollutants using covalent organic framework – A review on material properties, synthesis methods and application	Environmental Research, 246, 118018, April 2024
24	V Saravanan, M Rajasimman,	Status and future trends in wastewater management strategies using artificial intelligence and machine learning techniques	Chemosphere, 362, 142477, April -2024
25	M. Rajasimman	Biodegradation of chlorpyrifos pollution from contaminated environment - A review on operating variables and mechanism	Environmental Research, 248, 118212, May 2024
26	M. Rajasimman	Valorization of sugarcane bagasse cellulose to synthesize novel Graphene oxide-based composite for remediation of atrazine – optimization studies	Journal of Environmental Chemical Engineering, 12, 112767, June 2024
27	M. Rajasimman	A facile approach in activated carbon synthesis from wild sugarcane for carbon dioxide capture and recovery: isotherm and kinetic studies	Biomass Conversion and Biorefinery, 14 (8) 9595 – 9607, June 2024
28	M. Rajasimman	Facile synthesis of iron nanoparticles from Camellia Sinensis leaves catalysed for biodiesel synthesis from Azolla filiculoides	Scientific Reports, (14)12818, June 2024

Faculty Publication

S.No	Name	Subject	Details
29	V Saravanan	A systematic analysis of hexavalent chromium adsorption and elimination from aqueous environment using brown marine algae (Turbinaria ornata)	Biomass Conversion and Biorefinery, 19 (9), 8223-8238June-2024
30	V Saravanan, M Rajasimman,	Comprehensive review on toxic heavy metals in the aquatic system: sources, identification, treatment strategies, and health risk assessment	Environmental Research, 258, 119440, June -2024
31	C. S. Rathnasabapathy, R. Saravanan	Risk Management of Work at Height in Higher Capacity Wind Turbine	Journal of Namibian Studies, 35(s1), 2023, 3815-3839
32	C. S. Rathnasabapathy, R. Saravanan	Safety management and fire protection in wind turbine nacelle	European Chemical Bulletin,12 (S2), 1803-1814, 2023
33	K.Manikandan	Safety Analysis Improvement in Fire Risk Assessment Model and Optimized Risk Indexing using Deep Learning Approach	International Journal of Intelligent Systems and Applications in Engineering 12 (3) March -2024. 732-742
34	C.Karthikeyan M.Rajasimman B.Suresh	Shelflife improvement in pineapple (Ananas comosus) using osmotic dehydration process in ternary osmotic system	Gradiva review journal, 10 (2), February - 2024, 252-288
35	B.Suresh	Adsorptive removal of reactive blue 25 by using trigonella foenum-graecum	Gradiva review journal, 10(7), July 2024, 462-476

ACADEMIC ACTIVITIES

INAUGURATION OF CHEMICAL ENGINEERING ASSOCIATION

INAUGURATION & FRESHER'S WELCOME

The Department of Chemical Engineering, Annamalai University, marked a significant milestone with the celebration of its Inauguration Day on **20th September 2023** at **AUMTEC 81 Hall.** The event served as a platform to highlight the department's journey, achievements, and future aspirations in the field of chemical engineering.

The program commenced with a warm welcome to the distinguished guests, faculty members, and students. The inaugural address was delivered by Dr. Dhanasekar, Head of the Department of Chemical Engineering, who emphasized the department's growth over the years and its dedication to research and innovation. His speech shed light on the importance of chemical engineering in modern industries, from petrochemicals to pharmaceuticals, and the role of academic institutions in driving technological advancements.

Following this, **Dr. Karthikeyan**, Dean, addressed the audience, focusing on the evolving landscape of engineering education. He highlighted the need for interdisciplinary learning, industry-academic collaborations, and the significance of equipping students with practical knowledge to meet global challenges. His words resonated with faculty members and students alike, reinforcing the importance of staying ahead in research and technological development.

Inauguration Day - A Milestone for the Department of Chemical Engineering

A key highlight of the event was the guest lectures by industry experts and senior academicians, who shared their insights on emerging trends in chemical engineering. These sessions provided valuable perspectives on topics such as sustainable industrial practices, advancements in process engineering, and the impact of artificial intelligence in chemical industries. The thought-provoking discussions encouraged attendees to explore new research avenues and stay updated with the latest technological breakthroughs.

The event also served as an opportunity for faculty members to engage in meaningful discussions on enhancing curriculum design and fostering research collaborations. With an increasing emphasis on sustainability and green technologies, the department aims to integrate modern advancements into its academic framework, ensuring that students are well-prepared for the demands of the industry.

The Inauguration Day concluded with a vote of thanks, expressing gratitude to all the speakers, faculty members, and participants for making the event a success. The discussions and knowledge-sharing sessions reinforced the Department of Chemical Engineering's commitment to excellence, positioning it as a center for innovation and learning.With a strong foundation and a vision for the future, the department continues to strive toward academic and research excellence, making a lasting impact in the field of chemical engineering.

SEMINAR CLUB

InChES' 2024

The Department of Chemical Engineering, Annamalai University, recently hosted a National Conference, bringing together distinguished academicians, industry experts, researchers, and students to discuss cutting-edge advancements in chemical engineering and allied fields. The event served as a significant platform for intellectual exchange, fostering innovative ideas and technological progress in the discipline. The conference was inaugurated with a keynote address by eminent scientist **Dr. Karthikeyan**, who emphasized the role of multidisciplinary research and sustainable industrial practices in shaping the future of chemical engineering. He highlighted the importance of green technologies, waste management, and alternative energy sources, urging young engineers to focus on innovations that align with global sustainability goals. A series of technical paper presentations followed, where researchers and students showcased their studies on emerging trends in chemical process optimization, nanotechnology applications, bioengineering, and environmental sustainability.

Date: 24.02.2024
Venue: CEFY '84
Time: 9.30 AM

34th Conference of Chemical Engineering

Topics such as startup culture in chemical engineering, patenting innovations, and career opportunities in the global market were widely discussed, providing students with valuable career insights. More than 100 participants, including students, research scholars, and faculty members from various institutions, attended the event. The enthusiastic participation and engaging discussions reflected the growing interest in interdisciplinary research and technological advancements in chemical engineering.

Experts from academia and industry provided insightful feedback, enhancing the participants' understanding of real-world applications of their research. One of the key discussions revolved around the role of automation and artificial intelligence (AI) in chemical industries. Speakers elaborated on how AI-driven process control, machine learning algorithms, and smart sensors are transforming traditional manufacturing, making processes more efficient and cost-effective. The conference also featured interactive panel discussions with industry professionals, who shared their experiences and perspectives on bridging the gap between academic research and industrial needs.

SEMINAR CLUB

Glimpses of InChES'

Professional Bodies Activities

IICHE STUDENT CHAPTER

Special Guest Lecture

By Mr.A.Veerabagu

Practical Insights: He spoke about real-time process optimization, quality control measures, and energy conservation methods used in cement plants. Soft Skills & Professionalism: In addition to technical skills, he stressed the growing need for communication, time management, and leadership abilities in young engineers. Sustainability in Manufacturing: With environmental responsibility gaining momentum, he detailed the green initiatives at India Cements, such as alternative fuels and emission control. The lecture ended with an interactive Q&A session, where students posed intelligent questions ranging from cement chemistry to career guidance. Mr. Veerabagu responded with enthusiasm, encouraging students to pursue internships and stay updated on evolving technologies.

The event was a testament to the department's commitment to industry-academic collaboration. Faculty members appreciated the speaker's real-world clarity, while students found the session eye-opening and career-defining. This guest lecture has undoubtedly added practical value to the academic foundation of budding chemical engineers at Annamalai University.

📅 **Date**: 22 nd September 2023

🕓 **Time**: 3:00 PM to 4:00 PM

📍 **Venue**: CEFY'84 Hall

Organized by: IIChE Student Chapter & Department of Chemical Engineering, Annamalai University

In a remarkable effort to bridge the gap between classroom knowledge and industrial applications, the Department of Chemical Engineering, Annamalai University, in collaboration with the IIChE Student Chapter (Annamalai-Neyveli Regional Center), hosted an impactful Guest Lecture on Industry-Academic Connect on 22nd September 2023. The lecture was delivered by Mr. A. **Veerabagu**, Vice President (Manufacturing), Sankagiri Works, India Cements Ltd., and was held at the CEFY'84 Hall from 3:00 PM to 4:00 PM. The event aimed to provide students with real-world perspectives on the application of chemical engineering principles in core industries. As someone with decades of experience in cement manufacturing, Mr. Veerabagu brought a wealth of practical insights and management wisdom to the young minds of Annamalai University. Industry Expectations vs. Academic Training: Mr. Veerabagu emphasized the importance of aligning academic learning with industry expectations, especially in core sectors like cement, petrochemicals, and manufacturing.

Special Lecture on Revival of Ancestral Dietary Practices: Utilizing Millets and Their Health Benefits

As part of its continuous efforts to bridge traditional wisdom with modern science, the Department of Chemical Engineering, Annamalai University, hosted a highly informative Special Lecture titled "Revival of Ancestral Dietary Practices: Utilizing Millets and Their Health Benefits". The event was conducted on 29th November 2023 at the CEFY'84 Hall, drawing active participation from both students and faculty members. The lecture was delivered by Dr. K. Thirumavalavan, Associate Professor, Department of Chemical Engineering, Annamalai University. His extensive research and experience in both chemical engineering and sustainable living made him the ideal speaker for such a relevant topic. Coinciding with the International Year of Millets, this event sought to rekindle interest in ancestral food practices, particularly the use of millets—once a staple in Indian households but gradually overshadowed by modern grains like rice and wheat. Dr. Thirumavalavan began by highlighting how millets such as ragi, bajra, and foxtail millet were not only sustainable crops but also nutritionally dense. He discussed how these ancient grains are packed with essential nutrients, dietary fiber, and antioxidants, making them ideal for modern lifestyles plagued with lifestyle diseases like diabetes and obesity.

The session skillfully wove together scientific data, historical food patterns, and modern dietary challenges. Dr. Thirumavalavan emphasized the role of millets in promoting gut health, reducing glycemic index, and supporting eco-friendly agriculture. The audience was especially intrigued by the comparative analysis between millets and polished grains. Infographics and real-world examples helped illustrate how incorporating millets into daily diets could lead to better health outcomes and environmental benefits. The lecture was not merely theoretical—it also encouraged dialogue and critical thinking. Several students participated in the Q&A session, expressing interest in research opportunities and millet-based product development. Faculty members praised the initiative for its interdisciplinary relevance, tying together chemical engineering, food science, sustainability, and public health. The success of the lecture reinforced the importance of reviving time-tested dietary practices and underscored the university's commitment to holistic education. Students left with a renewed respect for traditional grains and a curiosity to explore their applications in modern food technology.

📍 **Venue**: CEFY'84 Hall

📅 **Date**: 29th November 2023

Occasion: On the eve of International Year of Millets (2023)

Indian Institute of Chemical Engineers (IIChE)

Highlights of

International Year of Millet

The Institution of Engineers (India)
(IEI)

ENGINEERS' DAY

IEI CHAPTERS

14th December 2023

HONORING THE LEGACY OF SIR M. VISVESVARAYA

Engineers' Day was celebrated with great enthusiasm and pride by the Department of Chemical Engineering, Annamalai University, on 14th December 2023, in honor of Bharat Ratna Sir Mokshagundam Visvesvaraya, one of the greatest engineers India has ever produced. The event was organized to recognize the vital contributions of engineers in shaping society and to inspire the budding technocrats of the department.

The celebration commenced with a warm welcome address by the faculty, setting the tone for a day filled with learning, inspiration, and recognition. The event witnessed the participation of students and staff who gathered to pay tribute to the spirit of engineering and innovation.

Date: 14.12.2023
Venue: CEFY '84
Organized by: The Institution of Engineers

The function was presided over by the Head of the Department and senior faculty members, who emphasized the importance of ethical engineering practices, creativity, and lifelong learning. The gathering was also addressed by invited speakers from the department who highlighted the evolving role of engineers in the 21st century and the need for sustainable and inclusive technological solutions.As part of the Engineers' Day celebration, students took the opportunity to present short speeches on iconic engineers, groundbreaking inventions, and the impact of technology on modern life. These reflections sparked engaging discussions among peers and staff, fostering a collaborative learning environment. The event provided a platform for students to showcase their communication and leadership skills while also honoring the values of dedication and service that engineering embodies.

CLUB ACTIVITIES

Debate

LITERARY CLUB

Teacher 's Day

05 September, 2023

TEACHER'S DAY SPECIAL DEBATE: "DO TODAY'S GENERATION FOLLOW TAMIL CULTURE OR HAS TAMIL CULTURE DIMINISHED?"

The Faculty of Engineering & Technology, Department of Chemical Engineering, Annamalai University organized a special debate event to mark Teacher's Day celebrations. The topic for the debate was, "Do today's generation follow Tamil culture or has Tamil culture diminished?"

Students actively participated and expressed their views with great clarity and enthusiasm. Some students argued that the present generation, despite the advancements in information technology, continues to uphold and cherish Tamil traditions and values. Others felt that the influence of western culture has led to a gradual decline in the practice of traditional customs and heritage.

The debate provided an excellent platform for students to develop their public speaking skills, critical thinking, and cultural awareness. Faculty members also addressed the gathering, emphasizing the importance of preserving Tamil culture and traditions.

At the end of the session, the best debaters were recognized and awarded certificates of appreciation. The event stood out as one of the most engaging and meaningful activities of the Teacher's Day celebrations, instilling a sense of pride and responsibility among students towards their cultural roots

📅 Date: 05.08.2023

📍 Venue: CEFY '84

Organized by: Faculty & Students of the Department of Chemical .

LITERARY CLUB

Fireless cooking & Painting Competition

Fireless cooking

A Blend of Flavors & Colors: Fireless Cooking & Drawing Competition

The Department of Chemical Engineering, Annamalai University, in collaboration with the **Literary Club,** is bringing together creativity and culinary innovation with the Fireless Cooking & Drawing Competition. This engaging event aims to highlight the importance of healthy eating while providing a platform for students to showcase their artistic and culinary skills.

Food has long been recognized not just as a source of sustenance but as a vital component of health and well-being. This year's theme, "**Food is Medicine**", encourages participants to explore the healing power of natural ingredients and the significance of mindful eating.

Through fireless cooking, students will create nutritious dishes that promote wellness, while the drawing competition will allow them to visually represent the relationship between food and health.

🌟 **Date**: 23.03.2023
📍 **Venue**: Department of Chemical Engineering
⏰ **Time**: 4.30 PM

Cooking without fire requires creativity, skill, and an understanding of nutrition. Participants will prepare delicious, healthy dishes without the use of stoves or ovens, proving that great meals can be made with simple, fresh ingredients. This is a chance for aspiring chefs to think outside the kitchen and craft nutritious delights that redefine traditional cooking methods.

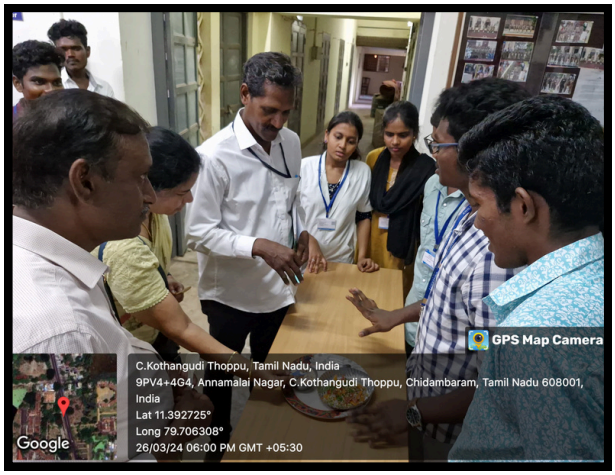
Food and health have always inspired art, from classic still-life paintings to modern digital illustrations. The drawing competition invites students to express the theme visually, illustrating how food can be a natural medicine.Any medium (pencil, watercolor, pastels, etc.) is allowed.

✓ Artwork must reflect the theme in a creative and meaningful way.
✓ Submissions should be completed within the given time frame.

With colors, textures, and imagination, participants will translate the essence of "**Food as Medicine**" onto paper, creating compelling pieces of visual storytelling.

LITERARY CLUB

Glimpse of Fireless cooking & Painting Competition



CULTURALS CLUB

ONAM CELEBRATION

07th September 2023

"Flavors of Tradition, Bonds of Chemistry: Onam Celebration at the Department of Chemical Engineering!"

Onam Celebration 2024: A Festival of Colors, Culture, and Community

The Department of Chemical Engineering, Annamalai University, came alive with festive spirit as it hosted a grand Onam celebration, embracing the rich traditions of Kerala. The event featured vibrant cultural performances, traditional games, and a stunning Rangoli (Pookalam) Competition, making it a day to remember for students and faculty alike.

Onam, the harvest festival of Kerala, is a time of joy, unity, and gratitude. The event began with the traditional lamp lighting ceremony, symbolizing prosperity and happiness. Faculty members and students, dressed in traditional Kerala attire, added authenticity and elegance to the celebration. The highlight of the day was the Pookalam (floral rangoli) competition, where teams competed to create intricate and colorful floral designs. The courtyard was transformed into a mesmerizing display of art and creativity, with students showcasing their talent by designing elaborate patterns inspired by Kerala's culture.The Rangoli (Pookalam) Competition was a major attraction, bringing together teams of students who crafted breathtaking floral patterns using fresh petals of marigold, rose, and jasmine. Each design reflected themes of unity, prosperity, and the spirit of Onam.

🌸 **Date**: 07th September 2023

📍 **Venue**: Department of Chemical Engineering

🎨 **Competition Highlight**: Rangoli Competition

As the event came to a close, the joy and laughter shared by students made Onam 2024 a truly unforgettable experience, keeping the essence of Kerala's rich heritage alive at Annamalai University.

PONGAL CELEBRATION

CULTURAL CLUB ACTIVITY

PONGAL CELEBRATION 2024: A FESTIVAL OF TRADITION AND TOGETHERNESS

The Department of Chemical Engineering, Annamalai University, embraced the spirit of Pongal with a vibrant and culturally rich celebration on 12th January 2024. The event brought together students and faculty in a joyous atmosphere, highlighting the essence of gratitude, unity, and tradition. Pongal, the festival of thanksgiving to nature and prosperity, was celebrated with great enthusiasm on the department premises. The event began with traditional rituals, setting the stage for a day filled with festivities and cultural programs.

One of the highlights of the celebration was the Pongal cooking ritual, where fresh rice was boiled in clay pots to symbolize abundance and gratitude to the Sun God. Students and faculty gathered around as the sweet aroma of freshly prepared Pongal filled the air, creating an ambiance of festivity and harmony.The celebration featured a variety of cultural performances, including folk dances, traditional music, and Tamil poetry recitations that resonated with the spirit of the festival. The event showcased the rich cultural heritage of Tamil Nadu, with students dressed in traditional attire, adding to the grandeur of the occasion.

Exciting games and competitions such as uriyadi (pot-breaking), rangoli (kolam) contests, and tug-of-war kept the participants engaged and entertained. The energy and enthusiasm were contagious, as students cheered and actively participated in the fun-filled activities. The Pongal celebration was not just an event but an expression of gratitude for nature's blessings and an opportunity to strengthen the bonds within the department. Faculty members and students shared Pongal dishes, fostering a sense of unity and cultural appreciation. The event concluded with heartfelt speeches from faculty members, emphasizing the importance of preserving traditions while embracing progress. The Department of Chemical Engineering once again demonstrated its commitment to celebrating culture and community spirit, making Pongal 2024 a memorable occasion for all.

🌾 **Date**: 12th January 2024

📍 **Venue**: Department of Chemical Engineering

🎭 **Highlights**:Pongal cooking,cultural performances, games & more!

As the sun set on the celebration, the echoes of laughter, music, and joy remained—a testament to the enduring spirit of Pongal, tradition, and togetherness.

TECHSPORTS

12 FEBRUARY 2024

SPORTS MEET'24

As the cheers faded and the dust settled, the memories of Sports Day 2024 remained—a day of victories, friendships, and unforgettable moments that will inspire students for years to come.

🎯 Date: 12th February 2024

📍 Venue: Annamalai University Pavillion

🏆 Prize Distribution: InChES' 2024

The Department of Chemical Engineering, Annamalai University, hosted its much-awaited Sports Day on 12th February 2024, bringing together students, faculty, and staff for an action-packed day filled with enthusiasm and competitive spirit. The event, led by Dr. Thirumavalavan, Staff In-Charge, showcased the athletic prowess and team spirit of students, reinforcing the importance of physical fitness and teamwork in academic life.

The sports ground buzzed with energy as participants competed in a wide range of track and field events, team sports, and fun challenges. From sprint races and long jumps to cricket and volleyball matches, every competition was met with excitement and determination. Students displayed remarkable stamina, agility, and perseverance, pushing their limits to achieve victory for their teams. The audience, including faculty members and fellow students, cheered passionately, creating an electrifying atmosphere that fueled the participants' enthusiasm. The event wasn't just about winning—it was about team spirit, resilience, and celebrating the joy of sports.

The winners and outstanding performers were honored during InChES' 2024, the annual event of the Department of Chemical Engineering. The prize distribution ceremony was a grand affair, recognizing exceptional athletes and acknowledging the efforts of every participant. Dr. Thirumavalavan, along with other faculty members, felicitated the champions, emphasizing the role of sports in building leadership, discipline, and mental well-being. Trophies, medals, and certificates were awarded to the winners, serving as a testament to their hard work and dedication.

More than just a day of competition, Sports Day 2024 was a celebration of unity, resilience, and personal growth. It provided students with an opportunity to develop teamwork, perseverance, and a healthy competitive spirit, qualities essential both in academics and life.With each race run and every goal scored, the event reinforced the Department of Chemical Engineering's commitment to holistic student development, proving that sports and education go hand in hand.

GLIMPSE OF SPORTS MEET'24

ANNUAL SPORTS MEET 2024

29 th January 2024

INNOVATION CLUB

INNOVATION 2.0 FAIR

INNOVATION FAIR 2.0: A PLATFORM FOR CHEMICAL ENGINEERING EXCELLENCE

Annamalai University's Department of Chemical Engineering is proud to present Innovation Fair 2.0, a premier event designed to foster creativity and technical innovation among chemical engineering students. Organized by the Innovation Club, this competition provides a unique stage for aspiring engineers to exhibit their groundbreaking ideas and solutions. This competition is exclusively for chemical engineering students, offering them an opportunity to present their projects individually or in teams of up to three members. Participants will explore innovative concepts in the field of Basic Engineering & Technology, aiming to push the boundaries of conventional knowledge.

MEET THE MINDS BEHIND THE EVENT

🔹 **Organizing Team:**
Hari Prasath P, Dinesh Ram R

🔹 **Technical Team:**
Sudharsan Rameshwar S

🔹 **Design & Documentation Team:**
Vishnu R, Jermin Jene R

🎓 **Head of Department:** Dr. R. Dhanasekar,Professor&t Head

🎓 **Faculty Coordinators:**
Dr. P. Mullai (Professor) &
Dr. K. Manikandan
(Associate Professor)

📍 **Venue:** CEFY Hall, Annamalai University

🗓️ **Date:** 29th January 2024

⏰ **Time:** 4:30 PM – 6:30 PM

GLIMPSE


Treatment Method
The levels of pesticides in water have increased due to their excessive use in the modern agricultural domain.
Choosing a suitable water treatment method for pesticide removal depends on the type of pesticide and the efficacy of the treatment process.
Physical method
Chemical method
Bio-Chemical method


GPS Map
Chidambaram, Tamil Nadu, India
9PV4+3GH, Sivapuri Main Rd, Annamalai Nagar, Chidambaram, C.Kotha
Thoppu, Tamil Nadu 608001, India
Lat 11.39263°
Long 79.706156°
29/01/24 05:06 PM GMT +05:30


TOXICOLOGICAL EFFECTS OF PESTICIDES AND THEIR ENVIRONMENTAL IMPACT ASSESSMENT
WITH COURAGE AND FAITH
S JAYASHREE, MONIKRAJ, SUDEASH,
DEPARTMENT OF CHEMICAL ENGINEERING,
ANNAMALAI UNIVERSITY.

ALUMNI PAPER PRESENTATION CONTEST

PAPER PRESENTATION

A Platform for Innovation and Knowledge Sharing in Chemical Engineering

The Innovation Club of the Department of Chemical Engineering, Annamalai University, successfully organized the Paper Presentation Contest – **2024** on **March 25, 2024, at 9:30 AM** in **CEFY'84 Hall**. The event, sponsored by the **1986-1990** batch (T) alumni, served as a prestigious platform for young researchers and students to present their innovative ideas, research findings, and technical knowledge in the field of chemical engineering.The event was graced by eminent personalities from academia and industry. The inaugural address was delivered by **Dr. C. Karthikeyan**, Professor and Dean of the Faculty of Engineering and Technology (FEAT), Annamalai University. He emphasized the importance of research and innovation in chemical engineering and encouraged students to contribute groundbreaking ideas to the industry.

The event was presided over by **Dr. R. Dhanasekar,** Professor and Head, Department of Chemical Engineering, who highlighted the department's ongoing efforts in fostering a culture of scientific research and technical excellence. A key highlight of the contest was the special addresses by two distinguished alumni from the **1986-1990** batch (T), who have made remarkable contributions to the chemical and industrial sectors

Mr. R. V. Ramesh, Sr. Vice President & Head, Global API (CTO), Dr. Reddy's Laboratories Ltd, Hyderabad. **Mr. N. Krishnan**, General Manager - Business Development, IMC Limited, Chennai. The Innovation Club Directors, **Dr. P. Mullai** (Professor) and **Dr. K. Manikandan** (Associate Professor), played a crucial role in organizing the contest.The Paper Presentation Contest 2024 provided a dynamic platform for students to showcase their research and technical knowledge, fostering innovation and academic excellence in chemical engineering.

🌟 **Date:** 26.03.2024
📍 **Venue:** CEFY '84 Hall
⏰ **Time:** 9.30AM to 4.30PM

The Paper Presentation Contest – 2024 was a resounding success, serving as a vibrant platform for students to engage in knowledge-sharing, interact with industry leaders, and gain recognition for their research efforts.It also strengthened the university's ties with its alumni network, highlighting their continued support for the institution's academic initiatives.

SNAPS OF PAPER PRESENTATION

BLOOD DONATION

Blood Donation Camp

Blood Donation Camp: A Lifesaving Initiative by the Department of Chemical Engineering

The Department of Chemical Engineering, Annamalai University, in collaboration with Chidambaram Government Hospital successfully organized a Blood Donation Camp to promote the noble cause of saving lives through voluntary blood donation. The event witnessed enthusiastic participation from students, faculty, and staff, reinforcing the spirit of compassion and community service. With the growing demand for blood donations in medical emergencies, the department took the initiative to encourage students to contribute to this humanitarian cause. The camp was set up with well-equipped medical facilities, ensuring a safe and hygienic environment for donors. Qualified doctors and healthcare professionals were present to oversee the donation process, ensuring the well-being of every participant.

The event not only helped meet critical blood supply needs but also inspired students to make blood donation a regular habit. With such overwhelming participation, the department aims to continue organizing similar initiatives in the future, encouraging more individuals to become lifesavers.

Date: 23.10.2023

Venue: Government Hospital

As the event concluded, the message was clear—"A single donation can save multiple lives." The selfless contributions of donors reflected the true spirit of humanity, making the Blood Donation Camp a success.

The atmosphere was filled with a sense of purpose and unity, as participants encouraged one another to take part in this lifesaving mission. First-time donors expressed their happiness, knowing they had contributed to a cause that could potentially save multiple lives. To recognize and appreciate the generous contributions of the donors, certificates and refreshments were provided after the donation. The faculty and organizing team extended their gratitude to all participants and medical staff for making the event a success. The success of this Blood Donation Camp highlights the Department of Chemical Engineering's commitment to social welfare and community service, setting an example for future initiatives

TECHNICAL CLUB ACTIVITIES

FUELING CURIOSITY, FOSTERING EXCELLENCE

The Technical Club of the Department of Chemical Engineering, Annamalai University, stands as a vibrant hub for knowledge seekers and competitive minds. One of its hallmark initiatives is the weekly Technical Quiz, held every Thursday at the CEFY'84 Hall, designed to nurture intellectual engagement and technical sharpness among students.

The Technical Quiz is not just a routine event—it's a challenging and exciting platform where students across all years come together to test and improve their technical prowess. The quiz covers a broad spectrum of topics, including:

Organized and managed by an enthusiastic team of students under the mentorship of faculty coordinators, the Technical Club encourages teamwork, leadership, and innovation. Each session is carefully designed to include buzzer rounds, rapid-fire Q&As, audio-visual rounds, and more to ensure high levels of engagement and fun.

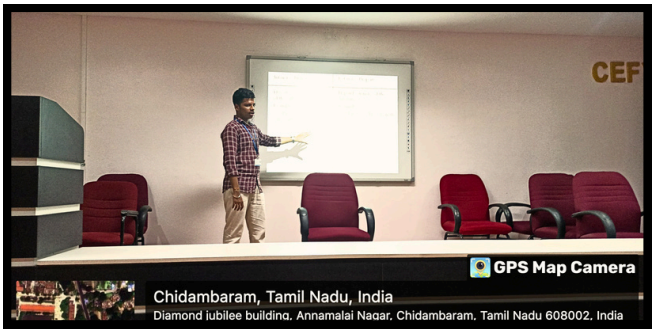
STUDENT-DRIVEN AND FACULTY-GUIDED

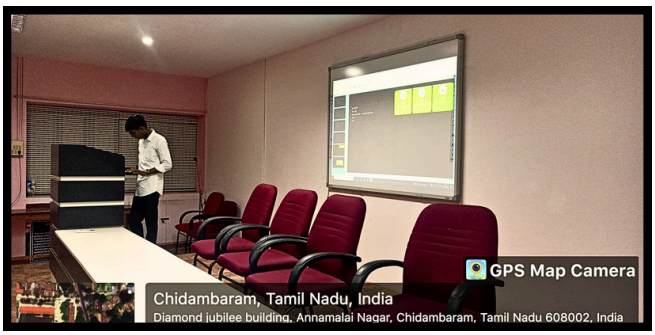
The club also encourages inter-departmental collaborations and participation, occasionally inviting students from other engineering disciplines to compete and share knowledge, making it a truly interdisciplinary learning experience.

These regular sessions help students not only in preparing for competitive exams like GATE but also in enhancing their presentation and communication skills, essential for successful careers in engineering and research.

Organized by:
Technical Club – Department of Chemical Engineering
Venue: CEFY'84 Hall
Day: Every Thursday
Time: 3:00 PM Onwards

Highlights of Technical Quiz





ALUMNI CONNECT

1981 Batch Alumni

STEAD
Student Training Evaluation and Development Programme

The Department of Chemical Engineering, Annamalai University, has always been committed to the holistic development of its students. As part of this vision, the department launched the STEAD Programme — Student Training, Evaluation, and Development — a weekly guest lecture initiative that has become a beacon of inspiration for budding engineers.What makes STEAD unique is its foundation — the initiative is proudly driven and supported by the esteemed alumni of the 1981 batch. Every Wednesday, without fail, a distinguished alumnus connects with current students, sharing industrial experiences, life lessons, career guidance, and technical knowledge. These sessions have covered a wide range of topics such as:

- Core Chemical Engineering Applications in Industry
- Process Optimization and Plant Design
- Workplace Ethics and Team Management
- Entrepreneurial Opportunities
- Resume Building and Interview Techniques

A Legacy of Learning by the 1981 Batch Alumni

Each session turns into a mentorship experience — where students not only gain exposure to practical engineering scenarios but also receive direct motivation from those who once walked the same campus corridors. The alumni bring in stories from their global careers, ranging from leading multinational companies to owning successful ventures, thus opening new windows of thought for students.

Bridging Generations with Knowledge

The interactive nature of these lectures ensures students are not just passive listeners but active participants, engaging in discussions, posing questions, and building lasting professional networks. Held every Wednesday in a dedicated hall within the department, the STEAD sessions have now become an integral part of the department's academic culture. These lectures not only complement the classroom curriculum but also instill the confidence and clarity needed to navigate the professional world.

Organized by: 1981 Batch Alumnus
Day: Every Wednesday
Venue: CEFY'84 Hall

PLACEMENT TRAINING

Workshop Skill Development

The Department of Chemical Engineering, Annamalai University, successfully conducted a Skill Development Workshop on 22nd March 2024 at CEFY'84 HALL. The event was sponsored by Annamalai University Chemical Engineering Trust and featured Dr. L. Savitha from SSS Soft Skills Training Consultancy, Mylapore, as the resource person. This workshop aimed to enhance students' professional and interpersonal skills, preparing them for career success through a structured learning approach. The workshop was divided into four key sessions, each designed to address essential soft skills required in professional environments:

Session I: Building a Strong Foundation

The first session covered the fundamentals of self-introduction, personality development, and effective communication skills. Dr. Savitha emphasized the importance of self-awareness, confidence, and clear communication in both personal and professional settings.

Session II: Mastering Body Language

This session focused on non-verbal communication, teaching students how to use body posture, facial expressions, and eye contact to make a lasting impression. Attendees actively participated in exercises to refine their body language and presentation skills.

Session III: Interview Skills & Techniques

Understanding that job interviews are a crucial gateway to career opportunities, this session provided students with valuable tips on answering questions effectively, dressing appropriately, and handling interview pressure.

Session IV: Mock Interview Session

To put their learning into practice, students took part in mock interview sessions. These realistic simulations helped them experience actual interview scenarios, receive constructive feedback, and gain the confidence to excel in real-world interviews.

The workshop was highly interactive, with students actively engaging in role-plays, group discussions, and hands-on exercises. The practical approach helped participants understand real-world professional challenges and how to tackle them effectively. Faculty members applauded the initiative, stating that such workshops are crucial in equipping students with essential soft skills that complement their technical knowledge. The Skill Development Workshop 2024 proved to be an invaluable learning experience for all attendees. With the knowledge and skills gained, students are now better prepared to face job interviews, interact professionally, and build successful careers.

📍 **Venue**: CEFY'84 HALL

📅 **Date**: 22nd March 2024

🕘 **Time**: 9:00 AM

The overwhelming participation and positive feedback from students ensured that more such training programs will be organized in the future, reinforcing Annamalai University's commitment to holistic education.

Workshop Skill Development

GUEST LECTURE: CAREER AT OIL & GAS INDUSTRY

22 nd February 2024

EXPLORING OPPORTUNITIES IN A GLOBAL ENERGY SECTOR

On an inspiring evening at Cefy'84 Hall, the Department of Chemical Engineering, Annamalai University, hosted a guest lecture titled "Career at Oil & Gas Industry". The session was conducted by Mr. Gunasekaran Palanivel, Senior Technical Advisor at Modec International Inc. and a proud alumnus of the 1979 batch. With decades of hands-on experience in the global oil and gas sector, Mr. Gunasekaran brought a wealth of real-world knowledge to the session. His lecture offered an insightful overview of the structure of the oil and gas industry, the roles of chemical engineers, and the future prospects in the energy domain. He covered diverse topics such as exploration and production.

GLOBAL INSIGHTS FROM A SEASONED EXPERT

Addressing an enthusiastic audience of students and faculty, Mr. Gunasekaran emphasized the importance of technical expertise, adaptability, and continuous learning. He also shed light on emerging trends such as green energy integration, digitalization of operations, and global recruitment practices. Students had the opportunity to interact directly during a Q&A session, where Mr. Gunasekaran shared career tips, industry anecdotes, and motivational insights. His humble beginnings and inspiring journey from Annamalai University to international success resonated deeply with everyone present. The event was a resounding success, equipping students with industry-aligned perspectives and practical knowledge. It was not just a lecture, but a mentorship moment that bridged the gap between academics and the global job market.

📅 **Date:** 22.02.2024
⏰ **Time:** 10:30 P.M.
📍 **Venue:** CEFY'84 Hall
Organized by: Department of Chemical Engineering, Annamalai University

CANDIDATE ENDOWMENTS

ENDOWMENTS	YEAR	NAME
Annanthahadavapuram Sri Durgamani Sundaresa Charities Endowment	IV	Vedula Sairama Srinivasa Phanindra
AUETAA-S. Rajagopal Chemical Engineering Endowment award 2022-2023	II	D. Hari Guru
Pon.Pudupatti M.PL.RM. Family Endowment	III	Prasanth.K
Mangai Rathinam Scholarship Endowment Prize	II	Tilak Sigh.K
	III	Vasanth.S
	IV	Swathi Monisha.R
RKSDJ Scholarship Endowment	IV	Yugendar G S
Thiru.S.M. Meyyappa Chettiar Late Tmt. Meyyammai Achi of Shanmuganathapuram	IV	Vigneshwaran.E
	IV	Santhiya. K
Rm.Sethunarayan Endowment Scholarship	II	Kathiravan K
	II	Krishna T
	III	Mahendaran M
	III	Parveena A
	IV	Angelin Reshmi J.M
	IV	Aarthy.B

Placement

S.No	Name	Company	Designation
1	Senthil kumar B	Sai Life Sciences Ltd.	Trainee in Production
2	Vinoth Kumar B		
3	Arun Prabhakar M		
4	Manikandan K		
5	Agilan S M		
6	Pavithra I		
7	Vimal Raj M	India Cements Ltd.,	GET
8	Mahendran M	Cetex petrochemicals	GET
9	Veerakumar V	Southern Petrochemical Industries Corporation Ltd.,	EMS Internship
10	Parveena A	Technip Energies	Designer Trainee
11	Ranjith K	TPRS	GET
12	Thamotharan S		
13	Iyappan N		
14	Prasanth K	Cetex petrochemicals	GET
15	Akash E	PPG Asian Paints Private Limited	Apprenticeship Trainee
16	Arunthavaraja V	Pioneer jellice India PVt Limited	Apprenticeship Trainee
17	Azif Rahman M	PPG Asian Paints Private Limited	Apprenticeship Trainee
18	Bharath S		
19	Pratheepan P		
20	Agilan M		
21	Karunakaran M		
22	Sathish Kumar C		
23	Surjith M		
24	Vasan P		
25	Vishva Sundar S		
26	Vijay V		
27	Kishore A		
28	Shanmuganathan J		
29	Mahibalan K.V	WKT ENVIRO Systems	Graduate Engineer Trainee

Placement

S.No	Name	Company	Designation
30	Dhiwakar S	Greenstar Fertilizer Limited	Engineering Management System Trainee
31	Priyadharshani G	Eco Care Engineering System, Chennai	Trainee
32	Pathu rachagan	Pioneer jellice India PVt Limited	
33	Harish	Ion exchange, Hyderabad	Apprenticeship Trainee
34	Arvin	Asian Paints	Apprenticeship Trainee
35	Kalidoss	ILFS	Apprenticeship Trainee
36	Dinesh		
37	Karunakaran	Tagros	Apprenticeship Trainee

Sai Make it better together

CETEX PETROCHEMICALS

SPIC Nourishing growth

TPRS

IL&FS

SANKAR IC CEMENT The India Cements Ltd

asianpaints

STAFF'S & STUDENTS ACHIEVEMENT

Best Women Researcher Award Dr.P.Mullai 2023-2024

Dr. P. Mullai, Professor in the Department of Chemical Engineering, was honored with the Best Women's Research Award for the academic year 2023–2024 in recognition of her outstanding contributions to research and innovation. The award was presented on 28th February 2024, celebrating her dedication, impactful publications, and commitment to advancing scientific knowledge in the field of Chemical Engineering

Best Male Researcher Dr.M.Rajasimman 2023-2024

Dr. M. Rajasimman, Professor in the Department of Chemical Engineering, was honored with the Best Researcher (Male) Award in recognition of his outstanding contributions to scientific research and innovation. His work in the field of chemical and environmental engineering has consistently reflected academic excellence, impactful publications, and a commitment to advancing knowledge.

COACHING LICENSE

Mr. Shanmugapriyan, a passionate sports enthusiast from the Department of Chemical Engineering, successfully completed his Football Coaching License in June 2023. His achievement reflects his dedication to sports development and coaching excellence. With this certification, he is now equipped to guide and mentor aspiring football players, contributing to both the athletic and personal growth of students at Annamalai University.

ESChemcon

ESChemcon, the prestigious annual event organized by the Indian Institute of Chemical Engineers (IIChE), serves as a national platform for budding chemical engineers across the country. Students from the Department of Chemical Engineering, Annamalai University, actively participate in this event every year, showcasing their talents through technical paper presentations, model exhibitions, and poster competitions. Their involvement not only enriches their academic and professional exposure but also brings pride to the department.

Youth Red Cross

Students of the Department of Chemical Engineering, Annamalai University, actively participated in the **Youth Red Cross** event organized under the banner of the Institution of Engineers (India) [IEI]. Their enthusiastic involvement in social service activities and community welfare earned them certificates of appreciation, recognizing their commitment to humanitarian values and responsible citizenship.

Energy Day Conservation

In recognition of their innovative ideas and commitment to sustainable practices, Vallikannu, Sowmiya, Amirtha, and Jayashree from the Department of Chemical Engineering were awarded in the **Energy Conservation Day** event organized by the Institution of Engineers (India) [IEI]. Their participation stood out for its creativity and relevance to energy efficiency, earning them accolades and appreciation from both peers and faculty.

Smart India Hackathon

A team of enthusiastic students from the Department of Chemical Engineering proudly represented Annamalai University in the prestigious **Smart India Hackathon** (SIH). Showcasing their problem-solving skills and innovative thinking, the team advanced to the final round of the competition, competing at the national level. Their achievement highlights the department's commitment to fostering creativity, technical excellence, and real-world application of engineering knowledge.

இன்றைய தேவை !அறிவியல் பார்வை !!

_ஜெ.புருஷோத்தமன்

ஆறறிவு உயிர்கள் நாம்
வாழ வந்த துகள்கள் நாம்
வாழ்வு தந்த இடத்தினையே
ஆள என்னும் பதர்கள் நாம்
பூமித்தாயின் மடியினை கிழித்து
கூறு போட்டோம்
அவள் குருதியை அள்ளி நெகிழியில்
அடைத்து விற்றோம்
பச்சிளங்காரி அவள் மேனி எங்கும்
விஷம் தெளித்தோம்
மரத்திற்கு பதிலாக பல கட்டடங்கள்
நட்டு வைத்தோம்
மின்சாரம் கண்டறிந்தோம்
மாசற்ற வழிமண்டலத்தை இழந்தோம்
செல்போன்கள் கண்டறிந்தோம்
பல பறவைகளை இழந்தோம்
வாகனங்கள் அதிகமாய் தோன்றி விட
மாரியும் அமிலமாய் மாறிவிட
ஓசோன் படலத்தின் தடிமனும்
குறைந்துவிட
உயிர்கள் துன்ப பட
கோபம் கொண்டால் பூமித்தாய்
பிறப்பித்தால் கொரோனா என்னும்
விஷத்தை, விஷமல்ல தடுப்பூசி
உலகமெல்லாம் அரண்டு
வந்தது ஊரடங்கு
எத்துணை இன்னல்கள்
எத்துணை கவலைகள்
வருங்கால பொறியாளர்களே
உலகத்தின் மருத்துவர்களே
செல்போனும் செயற்கை நுண்ணறிவும் அத்தியாவசியம்
என எண்ணுவது நம் மடமை
பூமித்தாயை காப்பதே
நம் முதற்கடமை
நிலத்தின் நீரை கழிவாக்கி
நிலவில் நீர் தேடுவது சரியா?
எதிர்கால சன்னதிக்கு
மாசற்ற பூமியை
நான் தர எண்ணுவது தவறா??
என் கண் பார்வையில்....
உலகத்தை காப்பதே இன்றைய தேவை
அதை நோக்கியே
இருக்க வேண்டும் நம் அறிவியல்,
பார்வை !!!

Nishanth.P

(II YEAR)

Department of Chemical Engineering