



ERODE SENGUNTHAR ENGINEERING COLLEGE (An Autonomous Institution)



APPROVED BY AICTE, NEW DELHI AND PERMANENTLY AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY NBA, NEW DELHI, NAAC WITH GRADE "A", IE(I), KOLKATA

PERUNDURAI, ERODE - 638 057.

CHEMICAL ENGINEERING NEWS LETTER ACADAMIC YEAR 2024-2025



ABOUT THE DEPARTMENT

The Department of Chemical Engineering has been successfully functioning since 1996. The courses offered are B.Tech. (Chemical Engineering) and M.Tech. (Chemical Engineering). It organizes Symposia, Exhibitions, Conferences, Seminars and Workshops for both students and Faculty belonging to various Technical Educational Institutions, Research Scholars, Resenech Institutes and Industries all over India

The Department is Accredited by NBA, since 2009 and Institute is accredited by NAAC with "A" grade since 2015. The department has state-of-the-art laboratory facilities with sufficient modern day equipment. Our students are placed in various top MNCs like SPIC, Sanmar, Manali Petrochemicals Limited, Tuticorin Alkali Chemicals Private Limited, Wipro, etc

The department is recognized as approved research centre for pursuing Ph.D by Anna University.

Vision of the Department:

To provide world class technical education in Chemical Engineering and to promote Scientific Research in Chemical Engineering and its allied areas

Mission of the Department:

- DM1 :** To impart knowledge to enrich the innovative excellence and positive thinking of students through proper technical education in Chemical Engineering and allied fields.
- DM2 :** To encourage students for creating value added products and commodities which serves the society irrespective of the socio-economic background.
- DM3 :** To motivate the students to forecast the societal needs and build their research and development capabilities with open ended experiments and projects beyond the syllabus
- DM4 :** To emphasize more on to develop the students to become highly qualified professionals with competency and ethical values.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

I. Preparation: To provide strong fundamental technical knowledge and professional skills to obtain positions in industrial, government, academic or other organizations.

II. Core Competence and Professionalism: To develop the students with contemporary knowledge and competency in Chemical Engineering and its diversified area such as Petrochemical, Pharmaceutical, Bio-chemical, and allied fields.

III. Breadth: To create the students with more interest on multi-disciplinary projects with active communication skills to effectively bridge Engineering and non-Engineering fields through a commitment to overall personality and career development.

IV. Learning Environment: To impart the students to gain interest on life-long learning, research, communication techniques pertaining to job-oriented skills with right attitude and ethics.

PROGRAM OUTCOMES(POs) Engineering Graduates will be able to:

PO1.Engineering knowledge: Apply the knowledge of mathematics, science, Engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2.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.

PO3.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.

PO4.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.

PO5.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.

PO6.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.

PO7.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.

PO8.Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9.Individual and teamwork: Function effectively as an individual and as a member or leader in diverse teams, and in multi-disciplinary settings.

PO10.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.

PO11.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 multi-disciplinary environments.

PO12.Life-long learning: Recognize the need for the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1. Process modeling & simulation: Developing applied knowledge through Process Modeling & Simulation in Chemical Process Industries.

PSO2. Contemporary skills: An ability to update knowledge on recent developments in Chemical Industries.

PSO3: Core employability: To produce efficient and specialized Engineers in the field of Fertilizers, Petroleum, Drugs & Pharmaceutical Technology and Specialty chemicals.

DEPARTMENT ACTIVITIES



DR. K.P. GOPINATH, DIRECTOR, ZYMETREE TECH AND TRADE, CHENNAI PRESENTED A GUEST LECTURE ON PROJECT TO PRODUCT :INNOVATION OF ENTREPRENEURSHIP ON 09/04/25



INTERACTION WITH UK ALUMNI BY OUR SECRETARY MR. S. THANGARAJU



PARTICIPATION OF VALLIKUMMI DANCE BY CHEMICAL ENGINEERING STUDENTS



MR. TARUN KIRITHIK, ASST. MANAGER, SPIC PRESENTED A LEADERS TALK ON 13/03/2025



**MR . HARI SUDHAN ,EXECUTIVE
EDUCARE,BANGALORE PRESENTED A
LEADERSTALK ON 12/03/2025**



**DR T.USHARANI & MS S. GOKILA
PROMOTED TREE PLANTATION IN
GOVT. MIDDLE SCHOOL
NALLIAMPALAYAM,ERODE DT**



**FINAL YEAR STUDENTS RECEIVED PLACEMENT
ORDER FROM LAKE CHEMICALS , BANGALORE**



**MR SIVA. RECEIVED BEST BODY BUILDER
AWARD FROM OUR CORRESPONDENT
THIRU.G.KAMALAMURUGAN**



**PONGAL FESTIVAL WAS CELEBRATED
ON 12/01/2025**



**CHEMICAL ENGINEERING ASSOCIATION
ACTIVITIES FOR ACADEMIC 2024-2025 WAS
INAUGURATED BY
DR.M.MUTHUKUMAR,PROFESSOR,CHEMICAL
ENGG,NIT TIRCHY ON 20/09/2025**

Journal publications by the faculty

S.No.	Name of the faculty	Title of the Paper	Name of the Journal	Details
1.	Dr.T. Usharani	Green Synthesis of Copper Nanoparticles Using Flower Extracts: A Promising Route for Enhanced Microelectronics Packaging	Green Synthesis of Copper Nanoparticles Using Flower Extracts: A Promising Route for Enhanced, Microelectronics Packaging	Aug 2024 / UGC / Published
2	Dr.M. Aynul Rifaya	Development of Polypyrrole/Cellulose Composite based Pseudocapacitive Bioelectrode for Enhanced performance of Biofuel Cell	Journal of New Materials for Electrochemical Systems	Aug 2024 / Scopus / Published
3	Dr.M. Aynul Rifaya	Amelioration of Membraneless Microbial Fuel Cell Performance using Covalently Bonded Yeast with Multi Walled Carbon Nanotube Biocatalyst	Journal of New Materials for Electrochemical Systems	Aug 2024 / Scopus / Published
4	Dr.M. Dhanasekaran	Empowering lung cancer prediction : The enhanced artificial BEE COLONY optimization (EABC) Approach	International Journal for Research Trends and Innovation	Feb 2025 / UGC / Published
5	Dr.M. Dhanasekaran	Utilization of Nano cellulose as an ecofriendly sustainable nanomaterial for potential pathway to Circular Economy and Sustainability	Scientific and Social Research	Nov 2024 / UGC / Published

INTERNSHIP COMPANIES

1. CRI Pumps Ltd, Coimbatore
2. Par Active Technologies Private Limited
3. Kerala State Drugs & Pharmaceutical Limited
4. Enviro Chem Engineers & Consultants India Pvt.Ltd Chennai
5. Tamil Nadu Petro products Limited, Chennai
6. Travancore Cochin Chemicals Ltd, Earnakulam
7. Bajrang Rasayan Exporters Pvt Ltd
8. Crescent Institute of Science and Technology
9. Manali Petrochemicals Limited
10. IOCL Barauni, P.Township, Barauni
11. CRI Pumps Ltd. Coimbatore
12. Sri Kiruba Polymers, Bodinaickenur
13. Dharangadara Chemical Works, Tuticorin
14. Seshasayee Paper and Boards Ltd
15. Green Leaf Laboratory
16. Ero Yarn Dyeing Company, Erode.
17. India Cements Ltd, Sanakari

NPTEL Course

Sl. No	Name of the student	Name of the Course	No of weeks	Rank
1	Aravinth	Industrial Waste Water Treatment	12	C
2	Kishore .G	Industrial Waste Water Treatment	12	C
3	Naveen Manikandan.S	Industrial Waste Water Treatment	12	C
4	Prasanna M	Industrial Waste Water Treatment	12	C
5	Aathithya Ranjan	Renewable Energy Engineering	12	B
6	Arivazhagan V	Renewable Energy Engineering	12	B
7	Dhivya Praba B	Renewable Energy Engineering	12	B
8	Gunasekaran G	Renewable Energy Engineering	12	B

Publications by the faculty members in national/international conferences Book chapters-published

S. No.	Name of the faculty	Name of the Conference	Paper presented on	Venue	Date
1	Dr. T. Usharani	Carbon dioxide sequestratio	Proceedings of the International	PSG College of Technology	21.122.024
2	Dr. T. Usharani	Artificial Neural Networks for	Second National Conference	Bannari Amman Institute of	19.122.024
3	Ms. S. Gokila	Synthesis of Renewable, Transparent	Second national Conference	Bannari Amman Institute of	19.12.2024 & 20.12.2024
4	Dr. M. Aynul Rifaya	Modelling and Simulation on Advanced Process Equipment Design	International Conference on Information and Communicati on Systems	Hybrid	04.02.2025 to 5.02.2025
5	Mr. P. Selvaprakash	Eco-Friendly Hydrotherma l synthesis	International Conference on	Karpagam Academy of Higher	06.03.2025-07.03.2025
6	Ms. G V Aatral	Modeling and simulation on Advanced	ICICS-2025	Vidyavardha ka college of Engineering,	4-5th FEB 2025
7	Dr. V. Santhosh	Performance and Emission Analysis of	IICHe – chemcon 2024	National Institute of Technology,	27.12.2024 to 30.12.2024
8	Dr. P. P. Selvi	Biodegradabl e and non-toxic	International conference on	Saraswathi Narayanan College,	7.032.025
9	Dr. P. P. Selvi	Bioethanol Production from	International conference on	BIT, Sathy & Sunway university,	07.03.2025-08.03.2025
10	Dr. P. P. Selvi	Caffeine production from waste	International conference on Recent	JVMGRR College, Charkhi	24.03.2025-26.03.2025
11	Dr. P. Akilamudhan	Organic and Inorganic hybrid	International Conference on	Karpagam Academy of Higher	06.03.2025-07.03.2025
12	Dr. P. Akilamudhan	Investigation of photocatalyti	International Conference on	Karpagam Academy of Higher	06.03.2025-07.03.2025

BEST OUTGOING STUDENTS

Sl. No	Name of the student	YEAR	Semester/ Branch	CGPA	RANK
1	Muthukrishna n. S (Male)	IY Year	VII	956	I
2	Sneha (Female)	IV Year	VII	916	III

Class wise toppers list

Sl. No.	Name of the student	YEAR	Semester/ Branch	CGPA	Rank
1	Vishali.S	IV year	VIII	91	I
2	Hari Prasanth K	III Year	IV	96	I
3	Shyaam P	III Year	II	93	I

List of students placed - Details like Photo of the student, Name of the Company, package details

		
<p>Muthukrishnan Tuticorin Alkalis and Chemicals Ltd, Tuticorin. 4.5 LPA</p>	<p>Prakath Sena UHB Technologies Pvt. Ltd, Bangalore. 3.3 LPA</p>	<p>Ruban UHB Technologies Pvt. Ltd, Bangalore. 3.3 LPA</p>
		
<p>Kishore G Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA</p>	<p>Sathya Muthu S Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA</p>	<p>Vigneshwar.R Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA</p>



Parkavi B
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai.
1.98 LPA



Prasanna M
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA



Saravanan R
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA



Siddharth A
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai.
1.98 LPA



Sathishkumar M
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA



Vibin
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA



Balraj. S
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai.
1.98 LPA



Manivel P
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA



Gokula Arasu M
Chemin Enviro Systems Pvt. Ltd, SIPCOT, Perundurai. 1.98 LPA



Varshini.S
Chemin Enviro Systems Pvt. Ltd,
SIPCOT, Perundurai.



Gowtham Karthick. P
Chemin Enviro Systems Pvt. Ltd,
SIPCOT, Perundurai. 1.98 LPA



Aadhityan Lakh Chemicals,
Hosur.
2.5 LPA



Umabharathy
Lakh Chemicals, Hosur.
2.5 LPA



Giriprasad Lakh
Chemicals, Hosur. 2.5



Hariprasanth Lakh
Chemicals Hosur. 2.5 LPA



Girish Raj
Lakh Chemicals, Hosur
2.5 LPA



Kaavin M K
Lakh Chemicals Hosur
2.5 LPA



Abhishek Annamalai Tagrose,
Cuddalore 2.0 LPA



Siva Tagrose, Cuddalore
2.0 LPA



Essakkiappan Tagrose,
Cuddalore 2.0 LPA



Packeer Mydheen
Tagrose, Cuddalore 2.0



Faizur Rahuman
Tagrose, Cuddalore
2.0 LPA



Arthish Tagrose,
Cuddalore 2.0 LPA



Nandeeshwaran Tagrose,
Cuddalore 2.0 LPA



Bharath Tagrose, Cuddalore
2.0 LPA



Aravinth J Tagrose, Cuddalore
2.0 LPA



Raksha A R Advance Eco
Resource Managemment