



Nandha

Engineering College (Autonomous)

(An Autonomous institution affiliated to Anna University) Erode
Perundurai Main Road, Vaikkalmedu, Erode - 638 052.



Department of Chemical Engineering

CHEMOLEON' 2021

News letter

Volume -1

Issue -1

June 2020-2021



Dr. N. Rengarajan, Ph.D.,
Principal

Best wishes to the Chemical Engineering Department on the happy occasion of the release of the newsletter for the academic year 2020–21. The Department of Agricultural Engineering deserves praise for the effort made out to publish the newsletter.



Dr. N. Subramanian, Ph.D.,
Head of the Department

It gives me a wonderful opportunity to discuss the "Chemole on 2021" issue. This internal newsletter is one of the ways we can tell people about what's going on in the Department. I want to express my gratitude to all of my peers for their unwavering support of the steady improvement.

About the Department

The Department of Chemical Engineering has been established in the year 2017 with an intake of 60 students. Being among the Top 3 Industries in the World, Chemical Engineering serves Petroleum Refineries, Petrochemicals, Agro Chemical – Fertilizers and Pesticides, Pharmaceuticals, Dyes and Dyes Stuff, Mineral based Chemicals, Defense, Energy, Chloro Alkali, Fermentation Products, Allied Sectors such as Sugar, Paper, Cement, Paint, Food, etc. Scope for a Chemical Engineer is enormous since Chemical Engineer combines knowledge in Chemistry with Engineering. Chemical Engineer involves in various stages of production process from design, erection to delivery.

Regular Industry Interaction helps in understanding the current and future requirements of the companies. Thereby, our syllabus is designed to meet the industry requirements.

Department Vision & Mission

Vision:

To continuously raise our effectiveness in imparting Chemical Engineering to develop world class Chemical Engineers.

Mission:

- To develop our students become best among the Chemical Engineers.
- To develop Chemical Engineers who pioneer the next phase of Chemical Engineering.
- To develop Chemical Engineers who are innovative as well as socially and environmentally responsible.
- To develop Chemical Engineers who can offer solutions to real world problems.

Department - Campus Life

The campus life of the Chemical Engineering students is like a blooming residential campus and community of creative and accomplished people from various states in India.

On Keeping in mind the wide assortment of opportunities available and every student is unique so has their own area of interest, we have designed the syllabi in such a way every Chemical Engineer will be groomed in our campus based on their own area of interest. We have leveraged the autonomy to bring out Expert in every Chemical Engineer.

Teaching - Learning Process:

Scope of learning:

Students are encouraged for self-learning by personal counseling and organizing various contest.

The following are the various methods of self-learning and facilities created therein

- Web-based Learning
- Learning with Multi-media
- Classroom Presentations
- Technical Events
- Arranging Guest Lectures
- Arranging Industrial Visit
- Arranging In-plant Training
- Arranging Internship
- Arranging Alumni Interaction

Department Laboratory Facilities:

The department has following laboratory facilities to do their curriculum based experiments and content beyond curriculum experiments to carry out Chemical Engineering student's research work.

Curriculum based Experiments;

- Chemical Analysis Lab
- Chemical Technology Laboratory
- Fluid Mechanics Laboratory
- Physical and organic Chemistry Laboratory
- Mechanical Operations Laboratory
- Process Heat Transfer Laboratory
- Mass Transfer Laboratory
- Chemical Reaction Engineering Laboratory
- Process computation Laboratory
- Process Dynamic and Control Laboratory

Research & Analysis Equipments

- UV-visible Spectrophotometer
- BOD & COD Test
- Turbidity meter
- Flame Photometer
- Bomb Calorimeter
- Petroleum Products Testing
- Flash & Fire point, Cloud & Pour Point, Melting Point, Smoke Point, Aniline Point, Viscosity, Carbon Residue Test etc..,
- Oil Analysis
- Soap Analysis

Content beyond curriculum experiments

- Process Simulation Software(ProSim) Laboratory
- MATLAB
- CFD using ANSYS fluent
- Aspen Plus

Chemical Analysis Laboratory



Faculty demonstrating on Conductometric Analysis to students in Chemical Analysis Laboratory

Fluid Mechanics Laboratory



Faculty demonstrating on Flow through Straight pipe Experiment to students in Fluid Mechanics Laboratory

Mechanical Operations Laboratory



Faculty demonstrating on Plate and Frame Filter Press Experiment to students in Mechanical Operations Laboratory

Chemical Reaction Engineering Laboratory



Faculty demonstrating on Plug flow followed by mixed flow Reactor Experiment to students and they are noting their Observations in Chemical Reaction Engineering Laboratory.

Mass Transfer Laboratory



Faculty demonstrating on Vacuum Tray Drier and Rotating Contact Disc Experiment to students and they are noting their Observations in Mass Transfer Laboratory.

Heat Transfer Laboratory



Faculty demonstrating on Shell and Tube Heat Exchanger, Vertical - Horizontal Condenser Experiment to students in Heat Transfer Laboratory

Process Simulation Laboratory



Faculty demonstrating on process conditions of chemical process to students in Process Simulation Laboratory.

Department- Industry Institute Interaction (III):

To enrich the knowledge level of our students and to make them to cater the practical exposure over the theoretical knowledge rather than the classroom teaching with that the following departmental activity makes students attractive to acquire employability skills in campus itself.

Industrial Visit





A Group photo of our Chemical Engineering Students during their Industrial Visit at Kudan Kulam - Nuclear Power Project (KKNPP), Kudankulam



A Group photo of our Chemical Engineering Students during their Industrial Visit at Indian Tobacco Corporation Limited - Paper Division - Mettupalayam , A representative from the industry giving instructions to Chemical Engineering students.



A Group photo of our Chemical Engineering Students during their Industrial Visit at Thirumalai Chemicals Limited - (TCL) - Ranipet & Our students are assembled in TCL Auditorium for Video demonstration.



A Group photo of our Chemical Engineering Students during their Industrial Visit at Thirumalai Chemicals Limited - (TCL) - Ranipet & Our students are assembled in TCL Auditorium for Video demonstration.



A Group photo of our Chemical Engineering Students during their Industrial Visit at Common Effluent Treatment Plant - SIPCOT - Perundurai



A Group photo of our Chemical Engineering Students during their Industrial Visit at Sakthi Sugars Pvt Ltd - Appakudal - Erode



Guest Lecture



Mr. G. Mugaishudeen - Assistant Professor - Department of Chemical Engineering Kongu Engineering College - Honored by HoD with Memento & addressing the Chemical Engineering students.



Dr. M. Rengasamy - Assistant Professor - Department of Petrochemical Technology - Bharathidasan Institute of Technology - Anna University - Tiruchirappalli addressing the Chemical Engineering students.



Dr.R.Balasubramanian - Assistant Professor - School of Petroleum Technology- Pandit Deendayal Petroleum University - Gandhinagar addressing the Chemical Engineering students.



Dr. Kogularasu Sakthivel, Postdoctoral Research Faculty, National Cheng Kung University, Taiwan - Honored by Respected Principal with shawl.

Industrial Seminar



Thiru N. S. Venkatramam - Chief Editor - Nandhini Chemical Journals - Honored by Respected Principal with shawl & He is addressing the Chemical Engineering students.



Dr.D.Subramanian - Retired Professor, Anuradha Institute of Technology, Madhyapradesh - on Dias with our Respected Principal, He is addressing the Chemical Engineering students.



Mr. Nirav Bhatt, Managing Director, Qatar Gas on Dias with our Respected Principal, He is addressing the Chemical Engineering students



Mr. A.T. Sakthivel - Production Supervisor-offshore wells, Dubai Petroleum - United Arab Emirates on Dias with our HoD and Senior Faculty member, He is Pointing various Fluid Transportation devices in Oil & Gas Sector the Chemical Engineering students.



Mr. Ashok Kumar, Assistant General Manager, Tuticorin Alkali Chemicals and Fertilizers, Thoothukudi on Dias addressing the Chemical Engineering students

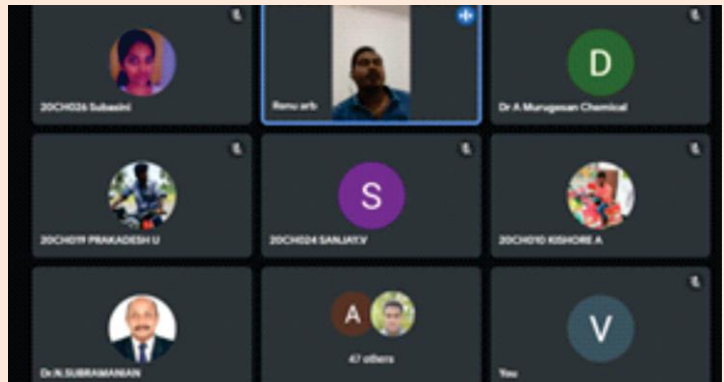
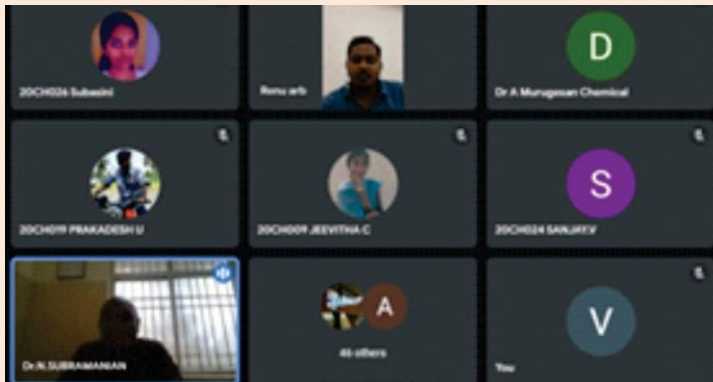




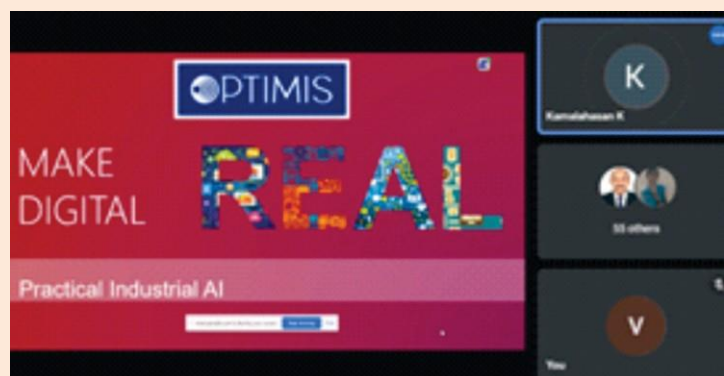
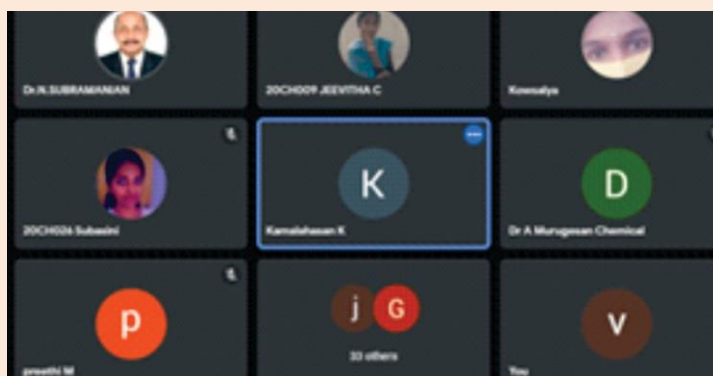
CEO, Sim Infosystems Pvt. Ltd, Chennai. Mr.L.Raghuraman Head- Global Business Development, Sim Infosystems Pvt.Ltd, Chennai on Dias. He is addressing the Chemical Engineering students and our Chemical Engineering student interacting during his lecture



Mr. Ashok Kumar, Assistant General Manager, Tuticorin Alkali Chemicals and Fertilizers, Thoothukudi - addressing the Chemical Engineering students



Mr.Renugopal, Senior Operator, KNPC -MAB Refinery, Kuwait National Petroleum Company, KUWAIT - addressing the Chemical Engineering through Virtual Mode.



Mr. Kamalahasan K ,Program Director , Ms.Preethi Mohan, Data Scientist & Ms.Kowsalya S, Process Engineer - Optimis AI Sdn Bhd - Malaysia - addressing the Chemical Engineering through Virtual Mode.

Workshop



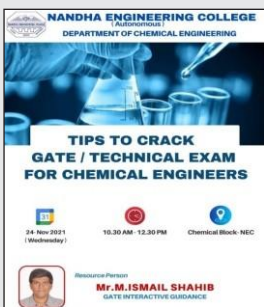
Mr. Biju Sukumaran, Faculty and trainer for Petroleum logistics operations, Petrolog, Cochin, Kerala Honored by HoD with Memento & addressing the Chemical Engineering students.

Entrepreneur Awareness Programme



Mr. K.M. Sathish Kumar- MD- Queen - Queen Plus Oil addressing the Chemical Engineering students also our Chemical Engineering Student interacting with him.

Higher Education Awareness Programme



GATE INTERACTIVE GUIDANCE - INVITATION



Higher Education Opportunities for Chemical Engineers - Invitation



Mr. M. Ismail Shahib - Head / ED - TECH - For Chemical Engineers - Addressing the Third & Final Year Chemical Engineering Students.

Workshop



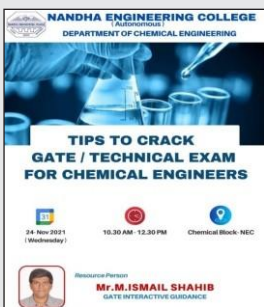
Mr. Biju Sukumaran, Faculty and trainer for Petroleum logistics operations, Petrolog, Cochin, Kerala Honored by HoD with Memento & addressing the Chemical Engineering students.

Entrepreneur Awareness Programme



Mr. K.M. Sathish Kumar- MD- Queen - Queen Plus Oil addressing the Chemical Engineering students also our Chemical Engineering Student interacting with him.

Higher Education Awareness Programme



GATE INTERACTIVE GUIDANCE - INVITATION



Higher Education Opportunities for Chemical Engineers - Invitation



Mr. M. Ismail Shahib - Head / ED - TECH - For Chemical Engineers - Addressing the Third & Final Year Chemical Engineering Students.



Mr.Thiagarajan Thirunavukkarasu - Director - TIME - Erode, Introduced by Head / Chemical Engineering & addressing the Chemical Engineering students.

Department Alumni Interaction details

- In coordination with department renowned alumni and alumni Incharge, our department used to organize the Alumni meet every year to review the activities of the current year and plan the activities for the forthcoming year.
- To utilize their rich experiences for the benefit and progress of their juniors.
- To provide guidance to juniors in their endeavour for better employment and higher studies in reputed Industry and Educational Institutions.
- To promote more core on - campus drive through him.
- To get the valuable advices of them in the overall development of Department and Campus.
- To arrange teaching and training classes to juniors by arranging Guest Lectures, Seminars workshops and also to upgrade technical and general skills
- Also, frequent alumni interactions are conducted every month to share their Experience, Exposure and Expertise with our Current I st , II nd, III rd & IV th Year Chemical Engineering students.



Our Alumni- 2021 Batch (Mr. S.NIKHILESWAR - EXECUTIVE in BIOSIMILARS PRODUCTION - Biocon Biologics Ltd - Bengaluru) Interacting with Chemical Engineering Students.



Our Alumni- 2021 Batch (Mr.K.SANTHOSH - EXECUTIVE in BIOSIMILARS PRODUCTION UPSTREAM - Biocon Biologics Ltd - Bengaluru) Interacting with Chemical Engineering Students.



Our Alumni- 2021 Batch (Mr.T.SOORYA - EXECUTIVE in BIOSIMILARS PRODUCTION DOWNSTREAM - Biocon Biologics Ltd - Bengaluru) Interacting with Chemical Engineering Students.



Our Alumni- 2021 Batch (Mr. ARUNKUMAR E , Mr. DHAMODHARAN E, Mr. SURYA S , Mr. KEERTHIVASAN P & Mr. NAVEENKUMAR N, - EXECUTIVE in BIOSIMILARS PRODUCTION DOWNSTREAM - Biocon Biologics Ltd - Bengaluru & Graduate Engineer Trainee - TAGROS CHEMICALS INDIA PVT Ltd - CUDDALORE) Interacting with Chemical Engineering Students.



Our Alumni- 2021 Batch (Ms. KOWSALYA S - Process Engineer -Trainee - Optimis AI Sdn Bhd - Malaysia & Mr. KARVENTHAN G - Biocon Biologics Ltd- Bengaluru) Interacting with Chemical Engineering Students.

Department - Professional Bodies details

- The department is a recognized forum of Chemical Engineers in India.
- All the faculty members associated in this department are become life member in Indian Institute of Chemical Engineers (IIChE).
- Our department students are active student member in Indian Institute of Chemical Engineers (IIChE).

IIChE – NEC – Student Chapter Inauguration Details



Dignitaries on Dias for Inaugural Ceremony of INDIAN INSTITUTE OF CHEMICAL ENGINEERS (IIChE) NEC - Student Chapter



Dr. N. Balasubramanian, Honorable Secretary, IIChE-CRC, Prof & Head, Chemical Engineering, AC Tech Campus, Anna University, Chennai & Dr K. Saravanan, Prof & Head, Chemical Engineering, Kongu Engineering College, Perundurai addressing the Chemical Engineering Students during the Inaugural Ceremony.

Department Association Inauguration Details



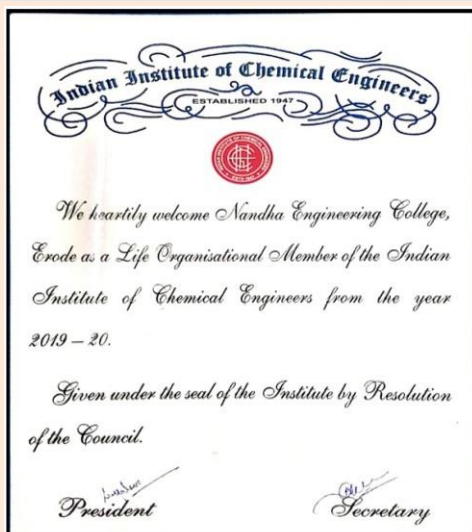
Mr.V. Madhukar Head-HR, Southern Petrochemical Industries Corporation Ltd - Tuticorin and Dignitaries on Dias for Inaugural Ceremony of NEC - Chemical Engineering Association.



Mr.V. Madhukar Head-HR, Southern Petrochemical Industries Corporation Ltd - Tuticorin addressing the Chemical Engineering Students



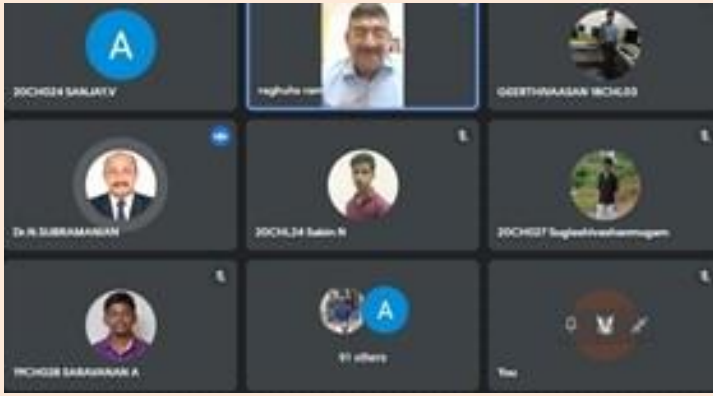
A Group Photo with Dignitaries & Office bearers of IIChe - NEC - Student Chapter after the Inaugural Ceremony of NEC - Chemical Engineering Association.



Chemical Engineering Professional Body - IIChe - Institute Membership Certificate



IIChe - NEC STUDENT CHAPTER - Association Inauguration Invitation



Mr.V. Madhukar Head-HR, Southern Petrochemical Industries Corporation Ltd - Tuticorin and Dignitaries on Dias for Inaugural Ceremony of NEC - Chemical Engineering Association.

Department Major Recruiters

- Our Institute Campus – Corporate Cell (CCC) has better relationship with the following Recruiters (MNC's)
- These Corporate Companies are frequently visiting and recruiting our students, due to our Nandha Educational Institutions branded Alumni who are performing well and contributing the excellent service towards the growth of the Organization.

Our Regular Recruiters

Department - On Campus Core Industries Placement Drive Details

- SPIC (Southern Petrochemical Industries Corporation) like large scale Industries have come over here to recruit our Chemical Engineering Students through Campus Placement Drive. The following are some of the photo Gallery witness for On Campus Core Industries Placement Drive.
- During the Placement Drive day, these Industries used to introduce briefly about their Industry and the Selection process like Written Examination, Technical, Aptitude, Group Discussion and HR Round in our campus itself and finally the selected students list are announced on the same day



A team of Industry Representatives from Southern Petrochemical Industries Corporation - Tuticorin on the Dias with our Respected CEO & Principal, A Senior HR addressing the gathering about “Industrial Process and its Products with end uses”.



A proprietor of W t t Technology Services India Pvt Ltd - Tiruppur giving brief “On Industry Vision and Mission, He also highlighted the Importance of Water Treatment and Waste to Energy” to the gathering and our Chemical Engineering students are listening his speech during the drive day.



Mr.Senthil Kumar - HR - Tuticorin Alkali Chemicals and Fertilizers Ltd addressing on “Industry Current progress and future goals”.



Our Chemical Engineering students are listening his speech during the drive day.

**A Place for
Your Goals...**



NANDHA

EDUCATIONAL INSTITUTIONS

ERODE - TAMILNADU - INDIA

Tech Campus

- Nandha Engineering College
- Nandha College of Technology
- Nandha Polytechnic College



Science Campus

- Nandha College of Pharmacy
- Nandha College of Physiotherapy
- Nandha College of Nursing
- Nandha School of Nursing
- Nandha College of Allied Health Sciences
- Nandha Academy of Allied Health Sciences
- Nandha Institute of Health / Sanitary Inspector
- Nandha Arts & Science College
- Nandha College of Education
- Nandha Teacher Training Institute



Indian Medicine Campus

- Nandha Naturopathy and Yoga Medical College & Hospital
- Nandha Siddha Medical College & Hospital
- Nandha Ayurveda Medical College & Hospital



School Campus

- Nandha Central School (CBSE)
- Nandha Central City School (CBSE)

