



CHEMOLEON' 2024

News letter

Volume - 3 ♣ Issue - 3 ♣ June - 2023 to May - 2024

Department Issue



DEPARTMENT OF CHEMICAL ENGINEERING

NANDHA ENGINEERING COLLEGE (AUTONOMOUS)
ERODE- 52, TAMIL NADU



CHEMOLEON 2024 News letter (*Volume - 3 ♣ Issue - 3 ♣ June - 2023 to May - 2024*)

© Department of Chemical Engineering - Nandha Engineering College (Autonomous), Erode - June- 2024

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“Dream, Dream, Dream...

Dreams transform into thoughts

and thoughts result in action.”

“Dream is not that which you see while sleeping it is something that does not let you sleep.”

by

Dr. A. P. J. Abdul Kalam



PRINCIPAL'S MESSAGE



Dr. N. RENGARAJAN B.Sc., B.Tech., M.E., Ph.D.
Principal

It is my pleasure in congratulating the Department of Chemical Engineering on the pleasant occasion for releasing the “**CHEMOLEON’ 2024**” Newsletter for the period **June - 2023 to June - 2024**. It is great to find a considerable number of winners and participants in co-curricular and extra-curricular activities which certainly prove that our Faculty members and students are adequately equipped and possess the necessary skill sets to bring such praise to the Institution. Certainly the development and growth of the department is the growth of Institution. I hope that this number may grow in the years to come. I am sure that publishing a News letter containing the achievements will be the recognition of hard work and I wish them all the very best for their future endeavors.

HEAD OF THE DEPARTMENT MESSAGE



It is my pleasure to present the first issue (**June - 2023 to June - 2024**) of "**CHEMOLEON 2024**" News letter of Chemical Engineering Department – Nandha Engineering College (Autonomous) for the Academic year **2023-2024**. I am indeed very delighted to meet you through this page. Keeping abreast of the latest trends in the market and disseminating it to the students is paramount for the growth of the Department. This issue of our "**CHEMOLEON 2024**" News letter showcases all the Academic and Non-Academic activities of Chemical Engineering. These Activities improve their social skills and it can be really showed someone of their valuable work ethics. Projects and Internships allow them to get hands-on experience in the field Chemical Engineering; it makes connection with different people in the society. I encourage all the students to take advantage of the opportunities provided by the College followed by the Department and involve themselves in all the Co- Curricular, extracurricular activities as well as Research and Development that are offered. At this junction, I would like to thank all my Department colleagues for their unwearied efforts to uplift the Department to the next level.

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ABOUT CHEMOLEON NEWS

The **CHEMOLEON' 2024 NEWS** is the voice of our Outcomes from our framed Chemical Engineering Objectives which mainly focuses on the day-to-day activities in the Department. It speaks and visualizes the event which was conducted in the Department within the stipulated period. Also our student's participation in various Technical and Non - Technical events like **Workshops, Conferences, Innovation day, Project Expo, Hackathon and also Seminars** at various reputed Educational Institutions in and around the state and other states. It encourages and brought out the talents of our students in various fields.

Department Vision & Mission

Vision:

- To produce globally competent engineers in chemical engineering and allied disciplines to meet the growing needs of the society.

Mission:

- To develop skilled and employable graduates to meet the challenges in emerging fields of Engineering and Technology.
- To prepare the students for prosperous career in Engineering and Entrepreneurship by inculcating the leadership qualities with professional and ethical responsibilities for the benefit of the society
- To provide learner centric environment by imparting quality education to cater the needs of the society

Programme Educational Objectives (PEOs)

The graduates of Chemical Engineering will be

- **PEO1: Core Competency:** A successful professional with core competency and interdisciplinary skills to satisfy the Industrial needs.
- **PEO2: Research, Innovation and Entrepreneurship:** Capable of identifying technological requirements for the society and providing innovative ideas for real time problems.
- **PEO3: Ethics, Human values and Life-long Learning:** Able to demonstrate ethical practices and managerial skills through continuous learning.

Programme Specific Outcomes (PSOs)

The students of Chemical Engineering will be able to

- **PSO 1:** Identify, formulate and analyze the problems of chemical engineering systems and product development.
- **PSO 2:** Implement appropriate engineering tools for modeling, simulation, analysis and optimization of chemical processes.

Outcome Based Education (OBE)

To bring improvement in the quality of Education Government of India signed and became a permanent signatory member of the “WASHINGTON ACCORD” on 13/06/2014 and started bringing reform under the initiative “OUTCOME BASED EDUCATION”

OBE as the name indicates that concentrates on the improvement of the “outcomes or the required skills and knowledge” that a student must have at the time of graduating. In our campus and in turn in **Chemical Engineering department** take serious concern in **attaining the attributes** defined globally for the graduates.

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 sector serves **Petroleum Refineries, Petrochemicals, Agro Chemical – Fertilizers and Pesticides, Pharmaceuticals, Dyes and Dye Stuffs, Mineral based Chemicals, Defence, Energy, Chloro-Alkali, Fermentation Products, Allied Sectors such as Sugar, Paper, Cement, Paint, Food, Polymers – Rubber & Plastics** etc. The Scope for a Chemical Engineer is enormous since Chemical Engineer applies knowledge of Chemistry in Engineering. A Chemical Engineer involves in various stages of production process from design, erection to delivery as end use products.

Regular Industry Interaction to Chemical Engineer helps in understanding the current and future requirements of the companies. Thereby, our syllabus is designed to meet the industry requirements. This Department is a recognized forum of **Indian Institute of Chemical Engineers (IIChE)** as a Life Organisational Member. Also our Department has been appreciated by **AICTE** for the development of Virtual – Lab combined with Department of Chemical Engineering, **Indian Institute of Technology- Madras - (IIT-M)**.

Infrastructure

The Department has the following laboratory facilities to do curriculum based Experiments and content beyond curriculum Experiments also carried out for their research work.

| Curriculum based Experiments | Content beyond curriculum Experiments | Research & Analysis Equipment's |
|---|--|---|
| <ul style="list-style-type: none"> ➤ Chemical Analysis Laboratory ➤ Chemical Technology Laboratory ➤ Fluid Mechanics Laboratory ➤ Physical and organic Chemistry Laboratory ➤ Mechanical Operations Laboratory | <ul style="list-style-type: none"> ➤ Process Simulation Software (<i>ProSim</i>) Laboratory ➤ MATLAB ➤ CFD using ANSYS fluent ➤ HTRI | <ul style="list-style-type: none"> ➤ UV-visible Spectrophotometer ➤ BOD & COD Test ➤ Turbidity meter ➤ Flame Photometer ➤ Bomb Calorimeter ➤ Petroleum Products Testing <ul style="list-style-type: none"> • Flash & Fire point, • Cloud & Pour Point, • Melting Point, |

| | | |
|--|--|---|
| <ul style="list-style-type: none"> ➤ Process Heat Transfer Laboratory ➤ Mass Transfer Laboratory ➤ Chemical Reaction Engineering Laboratory ➤ Process computational Laboratory ➤ Process Dynamic and Control Laboratory | | <ul style="list-style-type: none"> • Smoke Point, • Aniline Point, • Viscosity, • Carbon Residue Test, ➤ Oil Analysis ➤ Soap Analysis |
|--|--|---|

Photo Gallery of Department;

Department Laboratories:



Mass Transfer laboratory



Chemical Reaction Engineering Laboratory



Process Modeling and Simulation Laboratory



Chemical Analysis Laboratory



Process Heat Transfer and Process Dynamics and Control Laboratory

Department Library



Chemical Engineering Department Library

Faculty Details:

Teaching Faculty List:

| S.No | Faculty Name | Faculty Designation | Faculty Qualification |
|-------------|---------------------|----------------------------|------------------------------|
| 1 | Dr.Subramanian N | ASP | M.Tech., Ph.D. |
| 2 | Dr.Murugesan A | Prof | M.Tech., Ph.D. |
| 3 | Dr.Jeeva S | ASP | M.Tech., Ph.D. |
| 4 | Mr.Rajasekaran K | AP | M.Tech |
| 5 | Mr.Pandiarajan S | AP | M.Tech., (Ph.D) |
| 6 | Ms.Sumathi N | AP | M.Tech |
| 7 | Ms.Poornima T | AP | M.Tech |
| 8 | Mr Jawahar M C | AP | M.Tech |
| 9 | Mr. Vinoth kumar B | AP | M.Tech., (Ph.D) |
| 10 | Ms. Geetha M | AP | M.Tech |
| 11 | Ms.Keerthika S | AP | M.Tech |
| 12 | Mr.T.Sathish | AP | M.Tech |

Non - Teaching Faculty List:

| S.No | Faculty Name | Faculty Designation | Faculty Qualification |
|-------------|---------------------|----------------------------|------------------------------|
| 1 | Ms.B.Sathiya Devi | Lab Assistant | B.Sc., |

| | | | |
|---|----------------------|---------------|---------------|
| 2 | Ms.P.Meenakshi | Lab Assistant | B.Sc., |
| 3 | Ms.G.Kalaivani | Lab Assistant | B.Sc., B.Ed., |
| 4 | Ms.B.Karthigai Selvi | Lab Assistant | M.Sc., |

Students Details

IVth Year Chemical Engineering Students List: (Batch: 2020 - 2024)

| S.NO | Reg.No | Student Name |
|------|---------|-------------------------|
| 1 | 20CH001 | ABIN RAJ D |
| 2 | 20CH002 | AKASH G |
| 3 | 20CH003 | DHANUSH A S |
| 4 | 20CH004 | ENBARAJAN M |
| 5 | 20CH005 | GNANAVEL P |
| 6 | 20CH006 | GUNALAN M |
| 7 | 20CH007 | HARIHARAN M |
| 8 | 20CH008 | JAYANTH S |
| 9 | 20CH009 | JEEVITHA C |
| 10 | 20CH010 | KISHORE A |
| 11 | 20CH011 | KISHORE V |
| 12 | 20CH012 | KRISHNAPRASATH M |
| 13 | 20CH013 | LOGESHWARAN S |
| 14 | 20CH014 | MATHANKUMAR K |
| 15 | 20CH015 | MOORTHI G |
| 16 | 20CH016 | NITHISHCHANDRAN P G |
| 17 | 20CH017 | PABINESH P |
| 18 | 20CH018 | PAVITHRA R |
| 19 | 20CH019 | PRAKADESH U |
| 20 | 20CH020 | RAGUL S |
| 21 | 20CH021 | RAGUL S |
| 22 | 20CH022 | RANJITH B |
| 23 | 20CH023 | SANJAY R |
| 24 | 20CH024 | SANJAY V |
| 25 | 20CH025 | SANTHOSHKUMAR V |
| 26 | 20CH026 | SUBASINI R |
| 27 | 20CH027 | SUGIESHIVASHANMUGAM A R |
| 28 | 20CH028 | VENGADANARASIMMAN P |
| 29 | 20CH029 | VITHYASAGAR B |
| 30 | 20CHL01 | AAKASH B |
| 31 | 20CHL02 | ADRASH S |
| 32 | 20CHL04 | ANTO SHELTON S |
| 33 | 20CHL05 | AKHIL JOHN |
| 34 | 20CHL06 | BALU K |
| 35 | 20CHL07 | DENISCROSS D |
| 36 | 20CHL10 | DHARANESH K V |
| 37 | 20CHL11 | ESAKKIPANDI S |
| 38 | 20CHL12 | GOKUL G |
| 39 | 20CHL13 | GOWTHAM P |
| 40 | 20CHL14 | HARIHARAN K |
| 41 | 20CHL15 | KENNEDY DIWAKAR J |
| 42 | 20CHL16 | MURALHIDHARAN A |

| | | |
|----|---------|------------------|
| 43 | 20CHL17 | PALANIAPPAN K |
| 44 | 20CHL18 | PARTHIBAN V |
| 45 | 20CHL20 | RAGUNATH M |
| 46 | 20CHL21 | RAJA B |
| 47 | 20CHL22 | RAJARITHIK S |
| 48 | 20CHL23 | RAJKUMAR D |
| 49 | 20CHL24 | SABIN N |
| 50 | 20CHL25 | SHRI SHANTHAN |
| 51 | 20CHL26 | SREENATH P |
| 52 | 20CHL27 | SOUNDERRAJAN |
| 53 | 20CHL28 | VISHANTH A |
| 54 | 20CHL29 | VISWA M |
| 55 | 20CHL30 | VUTUKURU BHARATH |

IIIrd Year Chemical Engineering Students List: (Batch: 2021 -2025)

| S.NO | Reg.No | Student Name |
|------|---------|-------------------|
| 1 | 21CH001 | AJESH.B.M |
| 2 | 21CH002 | ANBUMANI.A |
| 3 | 21CH003 | ARAVINTH V |
| 4 | 21CH004 | ASHOK A |
| 5 | 21CH005 | ATHIBAN C |
| 6 | 21CH006 | BHAVANI M |
| 7 | 21CH007 | BIBIN B |
| 8 | 21CH008 | CHARAN.K |
| 9 | 21CH009 | DEEPAK K |
| 10 | 21CH010 | DHANUSH U S |
| 11 | 21CH011 | GIRI HARISH A |
| 12 | 21CH012 | HAKKIEM S |
| 13 | 21CH013 | JANANI K |
| 14 | 21CH015 | JEEVANANTHAM A |
| 15 | 21CH016 | JEEVANANTHAM B |
| 16 | 21CH017 | JEEVANANTHAM S |
| 17 | 21CH018 | JOYAL B |
| 18 | 21CH019 | KISHORE S |
| 19 | 21CH020 | MOHAMMED RISHAN S |
| 20 | 21CH021 | MOHANKUMAR M |
| 21 | 21CH022 | MURUGESH.S |
| 22 | 21CH023 | PRATHEESH.C.R |
| 23 | 21CH024 | PRAVEEN V |
| 24 | 21CH025 | RAVINJO R V |
| 25 | 21CH026 | ROOBAN.K |
| 26 | 21CH027 | SAMARAJIT B C |
| 27 | 21CH028 | SOWMIYA S |
| 28 | 21CH029 | SUDHAKARAN J |
| 29 | 21CH030 | SUMATHI M |
| 30 | 21CH031 | VIVEK V |
| 31 | 21CHL01 | AJAY KUMAR M |
| 32 | 21CHL02 | BALASHANMUGAM K |
| 33 | 21CHL03 | DEEPAK KUMAR A |
| 34 | 21CHL04 | DHANUSH K A |
| 35 | 21CHL05 | FAYIS T |
| 36 | 21CHL06 | GOKULVASANTH K |
| 37 | 21CHL07 | GOPALAKRISHNAN C |

| | | |
|----|---------|------------------|
| 38 | 21CHL08 | JELET S JAYAN |
| 39 | 21CHL09 | KRISHNARAJ S |
| 40 | 21CHL10 | MARSH LENIN G |
| 41 | 21CHL11 | MURUGESAN K |
| 42 | 21CHL12 | PRASANTH K |
| 43 | 21CHL13 | RAVIBHARATHI M |
| 44 | 21CHL14 | UDHIT PILLAI U S |
| 45 | 21CHL15 | VIGNESH S |

IInd Year Chemical Engineering Students List: (Batch: 2022 -2026)

| S.NO | Reg.No | Student Name |
|------|---------|--------------------------|
| 1 | 22CH001 | AASINTH J A |
| 2 | 22CH002 | ABHIJITH J |
| 3 | 22CH003 | ABIRAMI M |
| 4 | 22CH004 | AGASH V |
| 5 | 22CH005 | ANSHID K S |
| 6 | 22CH006 | ARIKARAN R |
| 7 | 22CH007 | ARUN KUMAR K |
| 8 | 22CH008 | BHARANIKUMAR M |
| 9 | 22CH010 | BOOPALAN D |
| 10 | 22CH011 | BOOPATHI R |
| 11 | 22CH012 | EZHUMALAI J |
| 12 | 22CH013 | GUHAN M |
| 13 | 22CH014 | HAFEEL AHAMED H |
| 14 | 22CH015 | HARIHARASUDHAN P |
| 15 | 22CH016 | JAGADEEP P |
| 16 | 22CH017 | JANANI R |
| 17 | 22CH018 | JANANI S |
| 18 | 22CH019 | JEBINTH J A |
| 19 | 22CH020 | JEROME J |
| 20 | 22CH021 | MATHAVAN M |
| 21 | 22CH022 | MOHAMMED HAFIZ I |
| 22 | 22CH023 | MOHANA SANKAR B |
| 23 | 22CH024 | MOWNIKA G |
| 24 | 22CH025 | MUTHUKUMAR L |
| 25 | 22CH026 | PRIYADHARSHAN C |
| 26 | 22CH027 | RANJITH KUMAR T |
| 27 | 22CH028 | RESHMA MERLIN R |
| 28 | 22CH029 | RITHIKA B |
| 29 | 22CH030 | SANTHOSHKUMAR K |
| 30 | 22CH031 | SARANYA DEVI S |
| 31 | 22CH032 | SARAVANAN G |
| 32 | 22CH033 | SELVAGANAPATHI S |
| 33 | 22CH034 | SHEIK SUHAIL AHAMED B |
| 34 | 22CH035 | SUJITHA S |
| 35 | 22CH037 | THAYANANTHAN B |
| 36 | 22CH039 | VARUN T JAYAN |
| 37 | 22CH040 | VIKRAM S |
| 38 | 22CH041 | YOGANATHAN A |

Ist Year Chemical Engineering Students List: (Batch: 2023 -2027)

| S.NO | Reg.No | Student Name |
|------|--------|--------------|
|------|--------|--------------|

| | | |
|----|---------|---------------------|
| 1 | 23CH001 | ANAND P |
| 2 | 23CH002 | ARAVIND G |
| 3 | 23CH003 | DEEPIKA T |
| 4 | 23CH004 | DIVYASRI S |
| 5 | 23CH005 | IDHIKASH M |
| 6 | 23CH006 | JOESSEARC L |
| 7 | 23CH007 | KALAIKOVAN K |
| 8 | 23CH008 | KAVIN BABU M |
| 9 | 23CH009 | KELSIE I |
| 10 | 23CH010 | LATHIKA SHAMINI P |
| 11 | 23CH011 | MARIPANDI B |
| 12 | 23CH012 | MARIYAPPAN K |
| 13 | 23CH013 | MEGALA D |
| 14 | 23CH014 | MELWIN M |
| 15 | 23CH015 | NITHISH KANNAN T |
| 16 | 23CH016 | NITHISH T |
| 17 | 23CH017 | PEER MOHAMED S |
| 18 | 23CH018 | RASEENA S |
| 19 | 23CH019 | RIGAN D |
| 20 | 23CH020 | ROOBAA S |
| 21 | 23CH021 | SANTHANA ABINESH .V |
| 22 | 23CH022 | SANTHANA KUMAR. P |
| 23 | 23CH023 | SRIDHARSHNI. P.R |
| 24 | 23CH024 | SUBIN SEKAR T |
| 25 | 23CH025 | SURENDAR R |
| 26 | 23CH026 | SURENDHAR P |
| 27 | 23CH027 | THANUSH RAJA S |
| 28 | 23CH028 | VASANTH R |
| 29 | 23CH029 | VINITH K |
| 30 | 23CH030 | VISHAL M |

Program Curriculum:

1. Programme Assessment Committee (PAC)

It discusses about curriculum revision, framing the Course Outcome (COs), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs). Senior faculty members in the department, Industry and Academic experts and students are members of PAC. The programme advisory committee interacts and maintains association with key stakeholders.

The programme advisory committee is headed by Head of the Department, who receives the report of the programme advisory committee and monitors the progress of the program. The committee develops and recommends new or revised goals and objectives of the program. The committee also reviews and analyses the gap between curriculum and current Industry requirement and gives necessary feedback or advice actions. Monitor the various activities like FDP, STTP / Guest lecturers, NPTEL, Value Added Courses and Spoken tutorials etc...

Roles and Responsibilities of the PAC

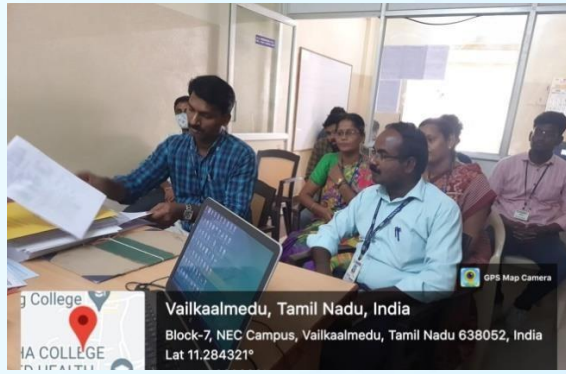
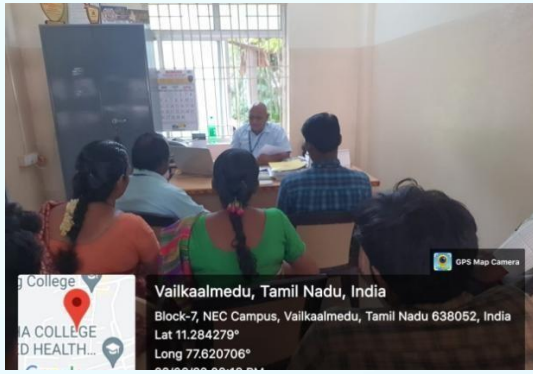
The roles and responsibilities of PAC are as follows:

- ❖ Monitoring the achievements of Program Outcomes (POs) and Program Specific Outcomes (PSOs) and to propose necessary changes in curriculum for the attainment of CO /POs and PSOs.
- ❖ Assessment data would be gathered, reviewed and reported as per assessment cycle and recommend revisions (if required) for the programme improvement.
- ❖ Interaction with members like students, faculty and other stakeholders for the improvement of the PO and PSO attainment.
- ❖ Allotment of department coordinators for various academic relevant activities.
- ❖ Track status and report of work assigned to the members and bring out the same for the notice of DAB for further discussion.

PAC - Members List

| S.No | Members | Representation |
|-------------|--------------------|---------------------------------------|
| 1 | Dr.N.Subramanian | Associate Professor & Head |
| 2 | Dr.A.Murugesan | Professor |
| 3 | Dr.S.Jeeva | Associate Professor |
| 4 | Mr.K.Rajasekaran | Assistant Professor |
| 5 | Mr.S.Pandiarajan | Assistant Professor |
| 6 | Ms. N. Sumathi | Assistant Professor |
| 7 | Ms.T.Poornima | Assistant Professor |
| 8 | Mr.M.C.Jawahar | Assistant Professor |
| 9 | Mr.B.VinothKumar | Assistant Professor |
| 10 | Ms.M.Geetha | Assistant Professor |
| 11 | Ms.Keerthika | Assistant Professor |
| 12 | Mr.T.Sathish | Assistant Professor |
| 13 | Ms.R.Subasini | IV th year Student Member |
| 14 | Mr.K.Balashanmugam | III th year Student Member |

| | | | | |
|--------------|----------------------|--------------------|------------------------------|----------------------------|
| Board | Chemical Engineering | Meeting No. | 1 | R 2017 & R 2022 |
| Venue | Department Library | Date | 28.07.2023, 11.00 A.M | |



Dr.N.Subramanian – Chairman welcomed the Members for PAC – I and he started discussion on Meeting according to the Agenda and Members were listening and giving their suggestions.

| | | | | | |
|--------------|------------------------|--------------------|----------------------|---------------------|---------------|
| Board | Chemical Engineering | Meeting No. | 2 | R 2017 & | R 2022 |
| Venue | Process Simulation Lab | Date | 05.10.2023, 2.00 P.M | | |



Dr.N.Subramanian – Chairman welcomed the Members for PAC – 2 and he started discussion on Meeting according to the Agenda and Members were listening and giving their suggestions.

| | | | | | |
|--------------|------------------------|--------------------|----------------------|---------------------|---------------|
| Board | Chemical Engineering | Meeting No. | 3 | R 2017 & | R 2022 |
| Venue | Process Simulation Lab | Date | 14.05.2024, 4.30 P.M | | |



Dr.A.Murugesan – Chairman and **Mr.K.Rajasekaran – HoD Incharge** welcomed the Members for **PAC – 3** and he started discussion on Meeting according to the Agenda and Members were listening and giving their suggestions in that forum.

| | | | | |
|--------------|-------------------------------|--------------------|-----------------------------|----------------------------|
| Board | Chemical Engineering | Meeting No. | 4 | R 2017 & R 2022 |
| Venue | Process Simulation Lab | Date | 26.06.2024, 4.30 P.M | |

2. Department Advisory Board (DAB)

Objective:

- ❖ To ensure that the Vision & Mission of the department are achieved by acting as a Catalyst in improving the quality of the program offered
- ❖ This is the core committee of the program headed by Head of the department followed by members from the Industry, Academia, renowned Alumni and senior faculty members of the program were constituted to help the decision – making process of the matters pertaining to the development and improvement in the key areas like Academic, Students Support System, Short and Long Term goals and Infrastructural facilities

Roles and responsibilities:

The roles and responsibilities of DAB are as follows:

- ❖ Suggest improvement in academic plans and recommend standard practices/systems for attainment of COs, POs, PSOs & PEOs
- ❖ To encourage the industry-institute interactions to bridge up curriculum/industry gap and suggest quality improvement/ initiatives to enrich employability skills.
- ❖ Redefine existing PEO's, aligning of PEO's to the mission statements and defining program specific outcomes.
- ❖ To propose a necessary action plan for skill development of students required for entrepreneurship development and quality improvement.
- ❖ To identify and suggest thrust areas to conduct various activities (final year projects, training courses and additional experiments to meet PEOs.
- ❖ To identify the Latest domains to Organise and attend FDPs/STTPs also for NPTEL Courses
- ❖ To ensure the quality in teaching learning process through Faculty Development Programs
- ❖ To review survey reports, analyse the feedbacks and suggest an action plan for continuous improvement in teaching learning process

DAB - Members List

External Members

| S.No | Members | Representation |
|-------------|---|------------------------|
| 1 | Dr.N.BALASUBRAMANIAN Professor Department of Chemical Engineering, A.C Tech. Campus, Anna University – Chennai | ACADEMIC EXPERT |

| | | |
|---|---|-----------------|
| | Director, Centre for Technology Development and Transfer, Anna University - Chennai. | |
| 2 | Mr. P.Arivazhagan Head of the Department Urea & Utilities SPIC Ltd, Tuticorin | INDUSTRY EXPERT |
| 3 | Mr.E.Dhamodharan, Executive in Biosimilars Production (Upstream) Biocon Biologics Ltd Bengaluru-560100 | ALUMNI |

Internal Members

| S.No | Members | Representation |
|------|---|------------------------------|
| 1 | Dr.N.Subramanian Head/Chemical Engineering Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Chairman |
| 2 | Mr.K.Rajasekaran Assistant Professor Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Coordinator |
| 3 | Dr.A.Murugesan Professor Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 4 | Dr.S.Jeeva, Associate Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 5 | Ms.N.Sumathi, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 6 | Mr.S.Pandiarajan, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 7 | Ms.T.Poornima, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 8 | Mr.M.C.Jawahar, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), | Expert Faculty Member |

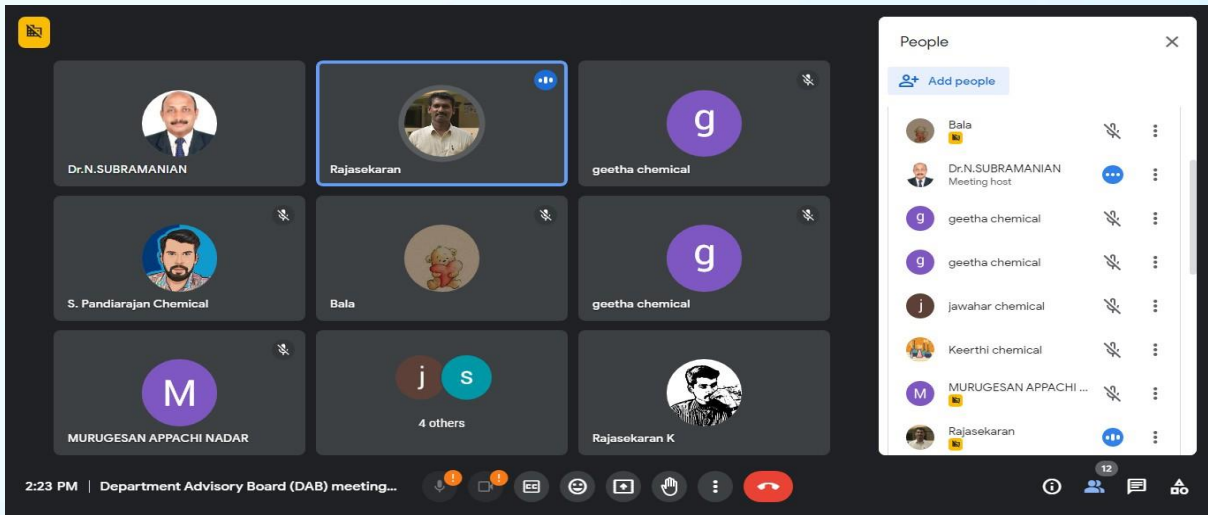
| | | |
|----|--|---------------------------------------|
| | Erode- 52. | |
| 9 | Mr.B.Vinoth kumar, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 10 | Ms.M.Geetha, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 11 | Ms.S.Keerthika, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 12 | Mr.T.Sathish, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- 52. | Expert Faculty Member |
| 13 | Ms.R.Subasini | IV th year Student Member |
| 14 | Mr.K.Balashanmugam | III th year Student Member |

| | | | | |
|--------------|---------------------------|--------------------|-----------------------------|----------------------------|
| Board | Chemical Engineering | Meeting No. | 1 | R 2017 & R 2022 |
| Venue | Online Mode (Google Meet) | Date | 27.12.2023, 2.00 P.M | |

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Item 1.02 Result Analysis and Attainment of the even semester 2022-23, overall attainment of the 2023 pass out batch & fix target for the 1 year (2023 - 2027 Batch), III YEAR / VI SEM (BATCH - 2020-24)". The slide contains a table with columns for "Index Code & Name", "Name of the Faculty", "No. of Appointed", "No. of Read", "No. of Attend", "Pass %", "Target", and "Achieved Course Outcome (CO)".

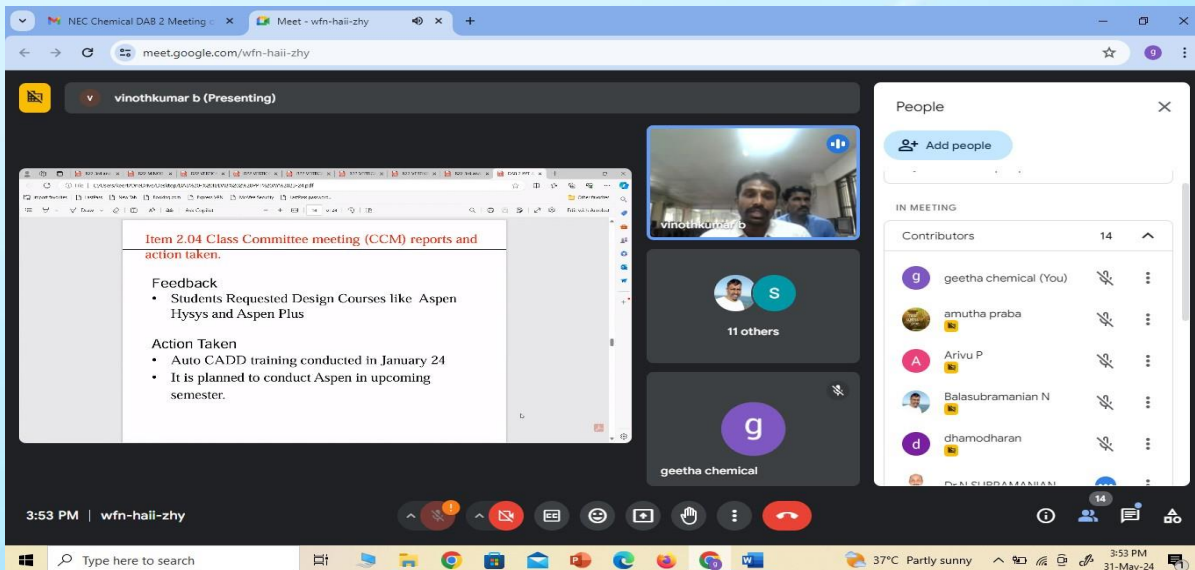
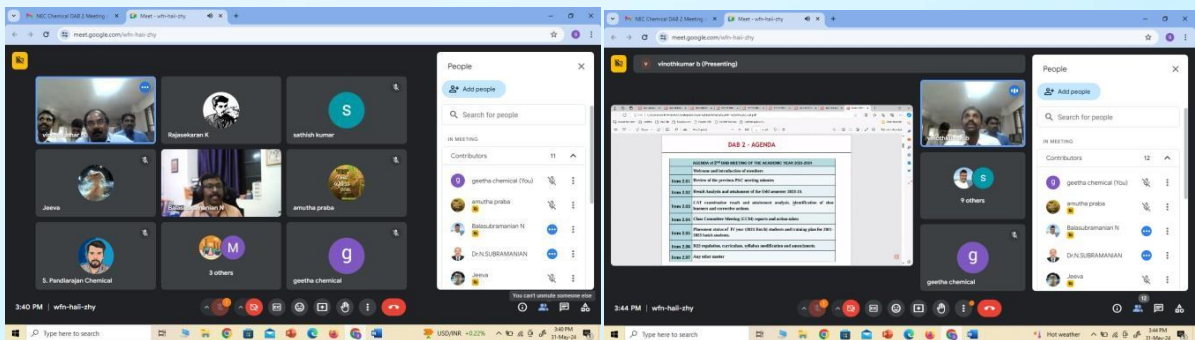
| Index Code & Name | Name of the Faculty | No. of Appointed | No. of Read | No. of Attend | Pass % | Target | Achieved Course Outcome (CO) | | | |
|---|------------------------|------------------|-------------|---------------|--------|--------|------------------------------|-----|-----|-----|
| | | | | | | | CO1 | CO2 | CO3 | CO4 |
| TCOR04 Basic Thermody-II | Dr. K. Rajasekaran | 52 | 48 | 4 | 92 | 75 | 80 | 81 | 81 | 78 |
| TCOR01 Chemical Equilibrium, Thermody, Chemical | Dr. S. Geetha, AP | 51 | 49 | 3 | 96 | 75 | 73 | 68 | 72 | 73 |
| TCOR03 Process Design, Operations, Distillation and Control | Dr. M.C. Srinivas, AP | 52 | 47 | 7 | 87 | 75 | 73 | 69 | 74 | 69 |
| TCOR02 Chemical Process Flow, Safety, and Hazard Analysis | Dr. S. Keerthika, AP | 49 | 46 | 3 | 100 | 75 | 82 | 81 | 78 | 76 |
| TCOR05 Air Pollution and Control | Dr. E. Rajasekaran, AP | 1 | 1 | 2 | 100 | 75 | 85 | 82 | 69 | 70 |
| TCOR06 E- Waste Management | Dr. S. Keerthika, AP | 2 | 1 | 2 | 50 | 70 | 67 | 67 | 67 | 67 |
| TCOR08 Regulatory Management | Dr. B. Srinivasan, AP | 52 | 52 | 0 | 100 | 52 | | | | |
| TCOR05 Education | Dr. B. Srinivasan, AP | 52 | 52 | 0 | 100 | 52 | | | | |
| TCOR03 Process Safety and Hazard Analysis | Dr. B. Srinivasan, AP | 23 | 23 | 0 | 100 | 23 | | | | |
| TCOR04 Process Design and Project Planning | Dr. S. Geetha, AP | 52 | 52 | 0 | 100 | 52 | 100 | 100 | 100 | 100 |
| TCOR04 Environmental Chemistry | Dr. S. Geetha, AP | 52 | 50 | 2 | 100 | 50 | | | | |
| TCOR04 Industrial Training | Dr. S. Geetha, AP | 51 | 51 | 1 | 100 | 51 | | | | |
| TCOR04 Environmental Chemistry | Dr. S. Geetha, AP | 52 | 50 | 2 | 96 | 52 | | | | |

The participant grid on the right shows several attendees: Rajasekaran, Dr.N.SUBRAMANIAN (presenting), S. Pandiarajan Chemical, geetha chemical, Bala, MURUGESAN APPACHI..., 5 others, and Rajasekaran K.



The Department of Chemical Engineering Conducted **1st Department Advisory Board (DAB)**. Before start of the meeting the **Chairman of BoS, Dr.N.Subramanian** welcomed the Members and introduced the External and Internal Members in a forum. Later he started with presentation according to Agenda. External and Internal members had given their valuable suggestions and it was recorded in the minutes of meeting.

| | | | | |
|--------------|---------------------------|--------------------|-----------------------|----------------------------|
| Board | Chemical Engineering | Meeting No. | 2 | R 2017 & R 2022 |
| Venue | Online Mode (Google Meet) | Date | 31.05.2024, 11.00 A.M | |



The Department of Chemical Engineering Conducted 2nd **Department Advisory Board (DAB)**. Before start of the meeting the **Chairman of BoS, Dr.A.Murugesan** welcomed the Members and introduced the External and Internal Members in a forum. Later he started with presentation according to Agenda. External and Internal members had given their valuable suggestions and it was recorded in the minutes of meeting.

3. Board of Studies (BOS):

Board of Studies Members List

| Sl.No | Members | Representation |
|-------|--|-------------------------------|
| 1 | Dr.A.Murugesan, Professor Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode-52 | Chairman |
| 2 | Dr.M.Arulmozhi Professor Department of Petrochemical Technology, University College of Engineering, BIT Campus, Tiruchirappalli - 620024 | University Nominee |
| 3 | Dr. C. Karthikeyan, Professor & Dean, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar- 608002 | Academic Expert Member |
| 4 | Dr.M.Arivazhagan Professor Department of Chemical Engineering, National Institute of Technology, Tiruchirapalli-620015. | Academic Expert Member |
| 5 | Dr.T.Kumaresan Global Platform Leader (CVD) Glass R&D, Saint Gobain Research India IIT Madras Research Park, Kanagam Road Tharamani, Chennai - 600113 | Industry Expert Member |
| 6 | Mr.S.Nikhileswar, Executive in Biosimilars Production, Biocon Biologics Ltd, Bengaluru, Karnataka-560100, | Alumni |
| 7 | Dr.N. Subramanian, Associate Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode-52. | Internal Member |
| 8 | Mr.K. Rajasekaran, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode- | Internal Member |

| | | |
|----|--|------------------------|
| | 52. | |
| 9 | Mr.S.Pandiarajan, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode-52. | Internal Member |
| 10 | Mr.B.Vinoth Kumar, Assistant Professor, Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode-52. | Internal Member |

| | | | | |
|--------------|----------------------|--------------------|------------------------------|----------------------------|
| Board | Chemical Engineering | Meeting No. | VIII | R 2017 & R 2022 |
| Venue | Board Room | Date | 12.06.2024, 11.00 A.M | |



The Department of Chemical Engineering Conducted 8th Board of Studies (BoS) meeting on **12.06.2024** in the Board Room as per the direction and permission from Anna University- Chennai. Before start of the meeting the Chairman of BoS, **Dr.A.Murugesan** welcomed the Members and introduced the External and Internal Members in a forum. Later he started with presentation according to Agenda. External and Internal members had given their valuable suggestions and it was recorded in the minutes of meeting.

Department Corner / Activities

Webinar Organized by the Department:

Lecture No 1: Organizes a Webinar on Role of Chemical Engineers in Process Design

Date: September 27, 2023

Resource Person: Mr.N.Manivannan



The poster is for a webinar titled "Role of Chemical Engineers in Process Design" organized by the Department of Chemical Engineering at Nandha Engineering College, Erode -52. It is in association with the IIChe - NEC Student Chapter. The guest speaker is Mr. N. Manivannan, Process Engineering Manager at Cameron (Schlumberger), Tidel Park, Coimbatore. The event is scheduled for September 27, 2023, at 10 AM in the Placement Auditorium. The poster also lists the Association Incharge (Mr. S. Pandiarajan), Director (Dr. J. Senthil), HOD (Dr. N. Subramanian), and Principal (Dr. N. Rengarajan).

Nandha Engineering College, Erode -52.
(Autonomous)
(Affiliated to Anna University, Chennai. Approved by AICTE, Accredited by NAAC (A+ grade) & Accredited by NBA)

Topic: **Role of Chemical Engineers in Process Design**

Department of **Chemical Engineering**
In Association with **IIChe - NEC STUDENT CHAPTER**
Organize

Guest Lecture

Sep 27 2023

10 AM | Placement Auditorium

Guest: **Mr. N. Manivannan**
Process Engineering Manager,
Cameron (Schlumberger),
Tidel Park, Coimbatore.

Association Incharge: **Mr. S. Pandiarajan**
Director: **Dr. J. Senthil**

HOD: **Dr. N. Subramanian**
Principal: **Dr. N. Rengarajan**

Webinar Invitation





The Department of Chemical Engineering organized a Webinar for Ist, IInd, IIIrd & IVth year Students by **Mr.N.Manivannan - Process Engineering - Manager , Cameron (Schlumberger), Tidel Park – Coimbatore**

He started the session with the Opportunities for Chemical Engineers in Process design sector, he also explained about the skill set (i.e. Software skills like MAT Lab, ProSim, Aspen, and Hysys) are required for fresher's to enter into the process design sector. The outcome of his Lecture was mainly focused on opportunities for students in the field of Process Design.

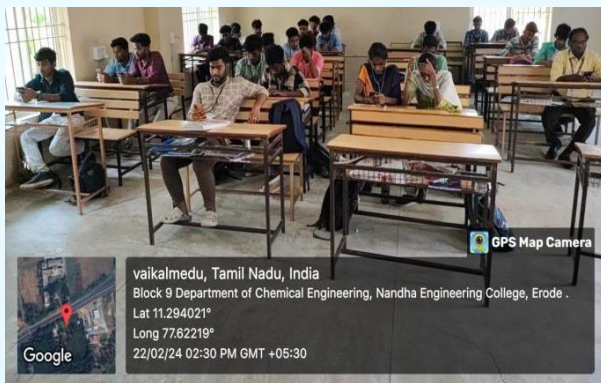
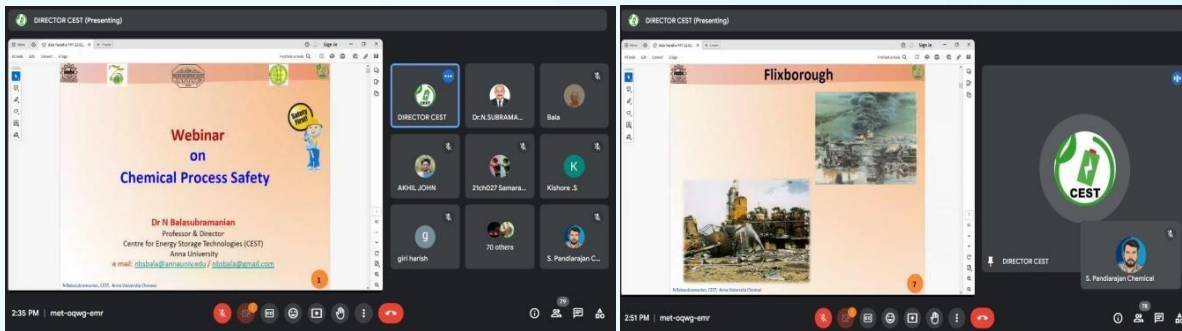
He shared his Experience, Exposure and Expertise with our students in that forum with clarity. His examples inspire many of our students to get further knowledge on their job opportunities in process design.

Lecture No 2: Industrial safety

Date: June 07, 2024

Resource Person: Dr.N.Balasubramanian

Webinar Invitation



The Department of Chemical Engineering organized a Webinar for **IInd, IIIrd & IVth** year Students by **Dr.N.Balasubramanian – Dr.N.BALASUBRAMANIAN** - Professor - Department of Chemical Engineering - A.C Tech. Campus - Anna University – Chennai & Director – Centre for Technology Development and Transfer – Anna University - Chennai.

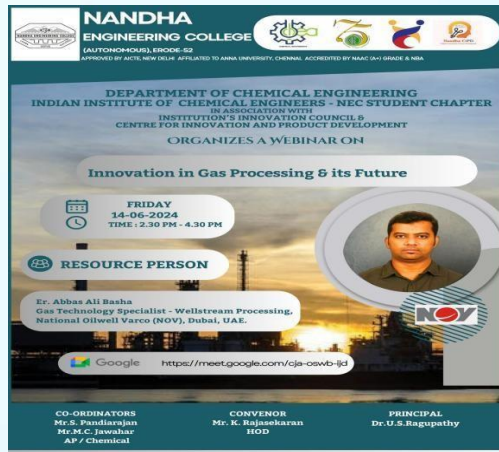
He started the session with the Importance of safety in process industry, Safety Regulations, Common Hazards and Safety Protocols to be followed in the process industry. The **outcome of his Lecture** was mainly focused the **students will have an enhanced awareness of industrial safety risks and the importance of maintaining stringent safety protocols to protect workers and assets.**

He shared his Experience, Exposure and Expertise with our students through online mode with clarity. His lucid examples inspire many of our students to get further knowledge about Industrial safety.

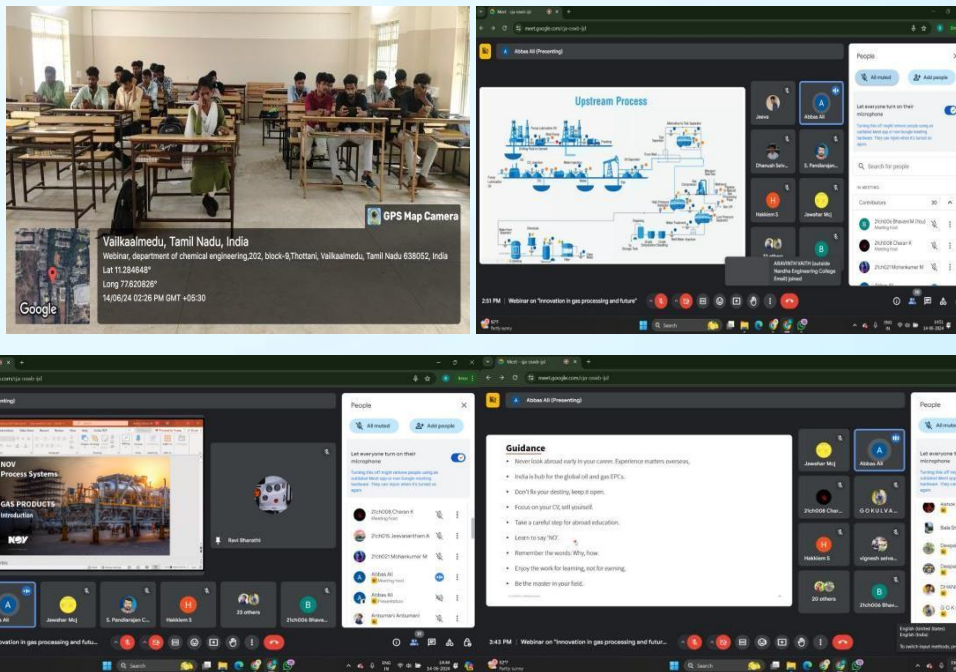
Lecture No 3: Innovation in Gas Processing and Future.

Date: June 14, 2024

Resource Person: Er.Abbas Ali Basha



Webinar Invitation



The Department of Chemical Engineering organized a Webiner for Ist, IInd, IIIrd & IVth year Students by Er.Abbas Ali Basha – Gas Technology Specialist- Well stream processing, National Oil Well (NOV), Dubai, UAE.

He started the session with the key objective of Knowledge Sharing, Networking Opportunities, Future Trends, Industry Challenges and Sustainability and Efficiency to our students in the forum. The **outcome of Lecture** focused the **students Establishing connections with industry peers, experts, potential collaborators and expanding professional networks.**

He shared their Experience, Exposure and Expertise with our students in a crystal clear manner. His examples are inspiring many of our students to add more knowledge in above said objectives.

Guest Lecture Organized by the Department:

Lecture No 1: Intellectual Property Innovations for Safeguarding Tomorrows Technologies Today.

Date: June 07, 2024

Resource Person: Mr.Krishnagandhi Pachiappan



NANDHA
ENGINEERING COLLEGE
(AUTONOMOUS), ERODE-52
APPROVED BY AICTE, NEW DELHI. AFFILIATED TO ANNA UNIVERSITY, CHENNAI. ACCREDITED BY NAAC (A+) GRADE & NBA

DEPARTMENT OF CHEMICAL ENGINEERING
IIChe- NEC STUDENT CHAPTER
In Association with
INSTITUTION'S INNOVATION COUNCIL (IIC)
&
CENTRE FOR INNOVATION AND PRODUCT DEVELOPMENT(CiPD)
Organizes a Workshop on

**Intellectual Property Innovations
for Safeguarding Tomorrows
Technologies Today**

FRIDAY
07-06-2024
TIME : 11 AM - 1.30 PM

RESOURCE PERSON

Mr. P. KRISHNAGANTHI
Innovation Ambassador - IPR and
Technology Transfer,
Mentor and Entrepreneurship Educator,
Nandha Engineering College (Autonomous) - Erode.

Venue:
202, BLOCK -9

CIPD CO-ORDINATOR
Mr.M.C.Jawahar
Assistant Professor / Chemical

HOD
Mr. K. Rajasekaran
Dept. Of Chemical Engineering

PRINCIPAL
Dr.U.S.Ragupathy
Nandha Engineering College

Guest Lecture Invitation



Guest Speaker Mr. P. KRISHNAGANTHI, Innovation Ambassador - IPR and Technology Transfer, Assistant Professor (Senior Grade), Nandha Engineering College (Autonomous) – Erode. Chemical Engineering students are listening his speech.



Chemical Engineering students are listening the speech.

Ayudha Pooja and Saraswathi Pooja Celebration:

Goddess Saraswathi showers her **blessing** towards **Education and talent**. Saraswathi Pooja was celebrated in the department on **19th October 2023**. It was an auspicious event for both Teachers and students also it brings more peace, Prosperity, Contentment, Happiness, Wealth and Health to all of us , to perform Pooja in the Department with the desire to develop unique innovation in them.



Chemical Engineering Students of Ist, IInd, IIIrd and Final Year were decorated the Laboratories and Class Rooms for the eve of Ayudha Pooja and Saraswathi Pooja Celebration.



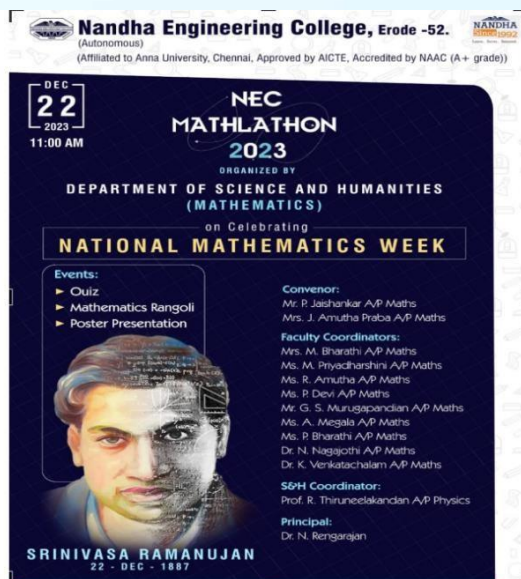
Faculty Members and students of Chemical Engineering – **Lighting the Lamp to Goddess Saraswathi** in the department on the eve of Ayudha Pooja and Saraswathi Pooja Celebration. Students and faculty pay obeisance to **Goddess Saraswathi**.

Celebration on National Mathematics Day:

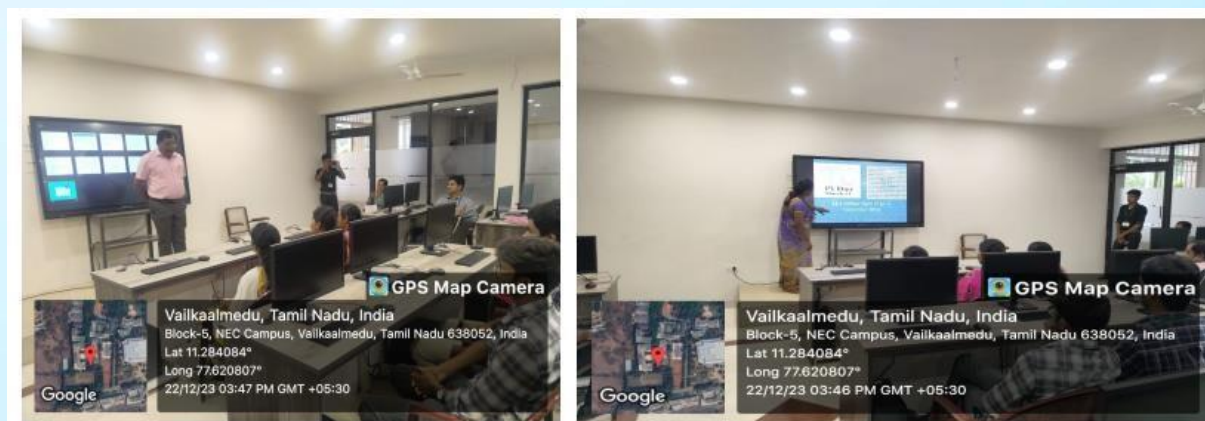
Mathematics is an essential part of our everyday life and a powerful tool to comprehend the world around us. In India, every year December 22 is celebrated as National Mathematics Day. The day marks the birth anniversary of the legendary Indian Mathematician Srinivasa Ramanujan. The day is also celebrated to remember the contribution of Ramanujan, one of the greatest Indian Mathematicians of all time. The genius mathematician was born on December 22, 1887 to a Tamil Brahmin Iyengar family in Erode, Tamil Nadu. He was fondly

known as 'the man who knew infinity'. In 2012, former Prime Minister Manmohan Singh declared December 22 as National Mathematics Day to honour the life of achievements of Ramanujan.

The main aim of the National Mathematics Day is to raise awareness among people about the importance of Mathematics for development and progress. He is known for the work he did in the areas of infinite series and number theory. On this day, Institutions across India hold various lectures on the life of Ramanujan, competition, Math's Olympiads and other events. Our Department Celebrated National Mathematics Day on December 22,2023.



National Mathematics Day Celebration – 2023 – Invitation



Our Principal Dr. N. Rengarajan, addressing to the students and faculty members on the eve of National Mathematics Day Celebration – 2023

National Level Technical Symposium - SYNECTICS' 23:

A grand Technical Fest has been organized by NEC for two days 25 and 26 March 2024. This two day national level technical symposium conducted every year for the undergraduate students of all departments in our campus; it provides a platform for the students of the engineering fraternity for exchange of their ideas and information to keep abreast of the current developments. The overall objective of this mega event is to bring together the expertise and showcase the talents of the

students in various disciplines. Technical paper presentations for all the above disciplines are conducted in parallel sessions. Other competitions like Agritech NexGen, Tensorflow and OpenCV Instant Medicopedia, SKETCH KIT, C – Hack, TIP TO TRACK, Circuitrix, DIGGING SCIENCE, CLASH OF GAMERS, SYNETHIC'S BOSS, SHOWCARD DESIGNING, IC RACING Project Contest, , Poster Presentation, ,etc to evaluate the general talents of the students are conducted in connection with this three-day programme. Students from leading technical educational institutions and Universities covering a wide geographical designation across the country participate in this programme.

NANDHA ENGINEERING COLLEGE (Autonomous)
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Erode-Perundurai Main Road, Vaikkaaimedu, Erode - 638 052.

NANDHA Since 1992
Learn. Grow. Innovate.

NATIONAL LEVEL TECHNICAL SYMPOSIUM

SAVE THE DATES!
23, 24 and 25 November, 2022

SYNECTICS'22
TECH FEST, As Unique as U

REGISTRATION FEES

Internal Participants:
Technical Events: 60
Non-Technical Events: 30
Workshop: 100
Ideathon: 100

External Participants:
Technical Events: 150
Non-Technical Events: 60
Workshop: 150
Ideathon: 300

*Registration fee may differ for few events

PRIZE
Assured attractive cash prize for winners for all events

IDEATHON
1) ECE, EEE, BME
2) CSE, IT, AI&DS, MCA
3) CIVIL, AGRI
4) MECH, CHEMICAL

AGRI
AGRITECH NEXGEN WORKSHOP
RANCH PARKING
AGRI PRENEUR
FOOD SENSORY
BOM CHALLENGE

AI&DS
WORKSHOP ON AI
FIGMA@ENCHERES
VISUAL CODE-A-THON
PAC BATTLE
CODE HUNTERS

BME
WORKSHOP
MEDISMA
INSTANT MEDICOPEDIA
ORGAN HUNT
FAST AND CURIOUS

CHEM
WORKSHOP
C-HACK
TRAIL BLAZERS
ROLL SCROLL
LITTLE ALCHEMY

CIVIL
SKETCH KIT
BRIDGE BUILDERS
BRICK MODELLING
CONCREC
TIMBER TOWER

CSE
BLOGATHON
GRIPPHINDOR
INTERACTIVE AGENT

ECE
TIP TO TRACK
TECH LADDER
CLOUD COMPUTING WORKSHOP
WORKSHOP ON THE IMMERSIVE TECHNOLOGIES OF AR/VR

MCA
SHOWCARD DESIGNING
BRAIN STORM
ICEBREAKER
PROJECT LAYOUT
FREE FIRE TOURNAMENT

MBA
AD-MAD
RECYCLE MANIA
SYNETIC'S BOSS
BUSINESS TEAM BUILD

MECH
IC RACING
TECHIE SKETCH
3D PRINTING WORKSHOP
DI-CYCLIST
MR.ROCKETRY

IT
DATA ANALYTICS WORKSHOP
UI/UX DESIGN WORKSHOP
CLASH OF GAMERS
TECH THESAURUS
TECHNERS

EEE
WORKSHOP
TRIP-DISECT
GIDDLE GEEKS
DIGGING SCIENCE
ROLL THE DICE

STUDENT COORDINATORS
Mr. Bhagavath R K - +91 94879 36557
Mr. Tamilarasu E - +91 63511 47543

FACULTY COORDINATORS
Mr. Thirumaleshwaran E - +91 73735 36600
Dr. Murthy M K - +91 73732 37471

SCAN TO REGISTER

SYNECTICS' 24 - Institute - Themes

NANDHA ENGINEERING COLLEGE (Autonomous)
ERODE-52

SYNECTICS'24

DEPARTMENT OF CHEMICAL ENGINEERING

MARCH 25 & 26

Technical Events
VISUAL VOYAGE
(Poster Presentation)
LUDOLGY DISCUSSION
(Paper Presentation)

TOPICS:

1. Petroleum Refining & Petrochemical
2. Energy Engineering - Solar & nuclear Energy
3. Pulp and paper technology
4. Drugs and pharmaceuticals industries
5. Biochemical engineering
6. Water treatment
7. Environmental Engineering - Air & Water pollution
8. Materials technology
9. Nanocomposites
10. Fuel cells & Batteries

Non-Technical Events
CHEM CHASE
CHEM CAPER

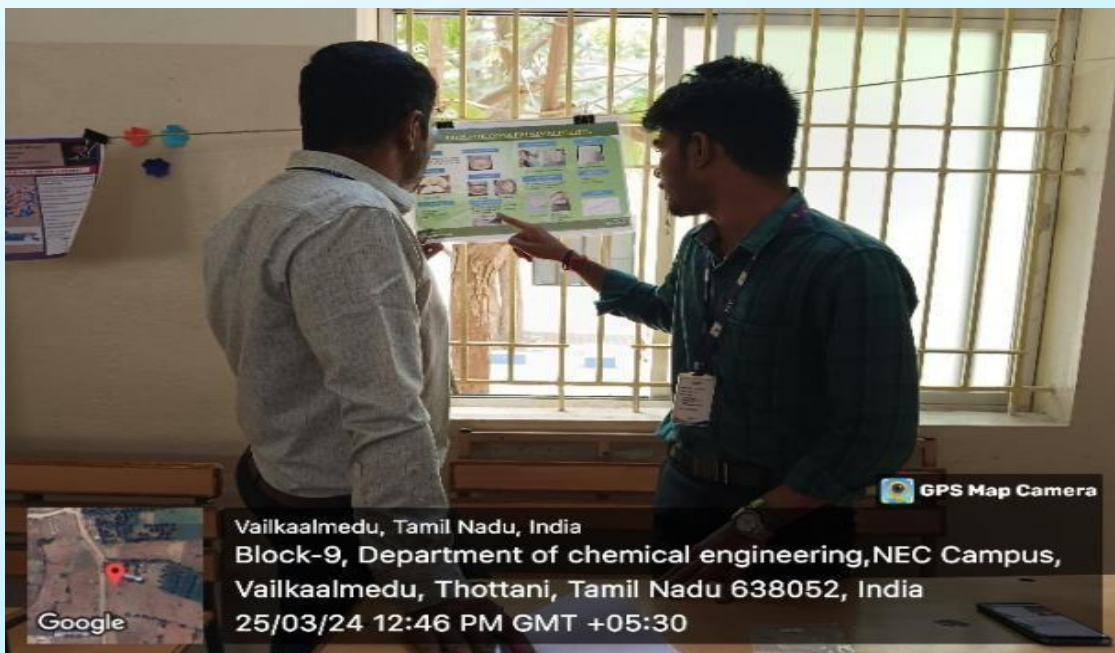
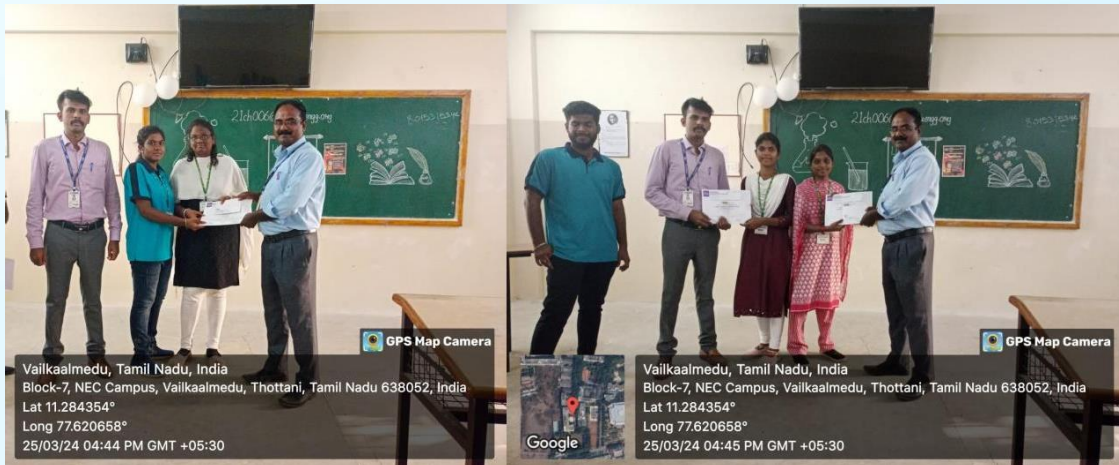
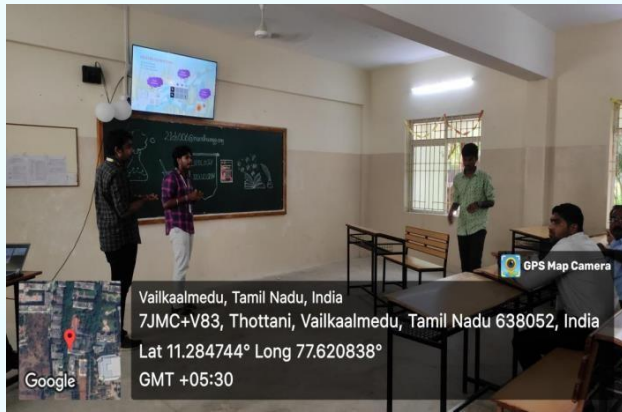
WORKSHOP ON
Process Equipment design
by using MATLAB

Faculty Coordinator **Student Coordinator**
Mr. S. Pandiarajan, **Ms. R. Subasini**
AP/Chemical **(96771 48319)**
(9994376378) **Mr. S. Mohammed Rishan**
(9566418668)

REGISTRATION FEE:
GENERAL EVENT PASS: ₹200
WORKSHOP PASS: ₹200

<https://www.synectics.in/events>

SYNECTICS' 23 - Chemical Engineering Department - Invitation cum Event Theme



Students from Intra department presenting their views in **LUDOLOGY DISCUSSION, VISUAL VOYAGE- Technical Event** in front of peer members of our department **Dr.A.Murugesan - Professor, Mr.S.Pandiarajan & Mr.T.Sathish - Assistant Professor.**

Innovation Day

Our Institute Creativity and Innovation Day are observed on **09 February 2023** for the academic year **2022 - 2023**. To raise awareness about the

importance of creativity and innovation in solving current Industrial and global problems, the aim of the day is to promote our students to exhibit their creativity and innovations in recent era. The day recognises the student's creativity which includes Waste to energy, Energy conservation, Alternate sources and Biodegradable products.

Our institute recognises the day as an opportunity for our students to encourage individuals and organizations to generate new ideas and think creatively to address recent challenges. On this day, our students showcased their innovative ideas and projects that have the potential to make a positive impact on the world. It serves as a reminder of the power of human creativity and innovation to transform the world for the better.

Eminent Peron's Quotes about Creativity and Innovation:

- ❖ **"I believe in innovation and that the way you get innovation is that you fund research and you learn the basic facts." – Bill Gates**
- ❖ **"Creativity comes from a conflict of ideas." – Donatella Versace**
- ❖ **"Innovation distinguishes between a leader and a follower." – Steve Jobs**
- ❖ **"A hunch is creativity trying to tell you something." – Frank Capra**
- ❖ **"Without tradition, art is a flock of sheep without a shepherd. Without innovation, it is a corpse." – Winston Churchill**
- ❖ **"Creativity is intelligence having fun." – Albert Einstein**
- ❖ **"Creativity is just connecting things." – Steve Jobs**
- ❖ **"Mystery is at the heart of creativity. That, and surprise." – Julia Cameron**

NANDHA
Educational Institutions
Erode, Tamilnadu.

சிவசுப்பிரமணியன்
2024

The Management, Principals, Staff & Students solicit your esteemed presence for

Nandha's Innovation Day '24
Edition 13

09th February 2024, Friday 10:00 am
@ Nandha Tech Campus

Inauguration

Thiru. V. Shanmugan
Chairman, Sri Nandha Educational Trust
will preside over the function

Dr. Thirunavukkarasu Dharmalingam
State Executive Member and Co-Coordinator
State Health Sub-Committee of Tamilnadu Science Forum
has kindly consented to be the Chief Guest

Thiru. S. Nandhakumar Pradeep
Secretary, Sri Nandha Educational Trust

Thiru. S. Thirumoorthi
Secretary, Nandha Educational Institutions

Dr. S. Arumugam
CEO, Nandha Educational Institutions

will felicitate the gathering

Innovation Day – Invitation



Our Students exhibited their innovations in the Chemical Engineering Lab during the Innovation Day 2024.



A group of students from II Year Chemical explained their innovation projects to the External Jury Mr. Mr.Kamalahasan - Technical Director - Fermion Energy & Engineering Solutions Pvt Ltd - Coimbatore



A group of II Year Chemical Engineering students showcased their models during the Innovation Day 2024.



A group of IV Year Chemical Engineering Students explaining about their innovation to school students during the Innovation Day 2024



Mr.Santhosh Kumar V , Ms. Subasini R and Mr. Gnanavel P of IV year also Mr. Balashanmugam K , Charan.K and Udhit Pillai U S and Mr. Nithish Kannan T, Mr.Nithish Tand Mr.Kavin Babu of Chemical Engineering receiving their certificate and shield from the Chief Guest of the Innovation day 2024 and showing the same to Head/ Chemical Engineering in front of the department.

Hackathon 24:



NANDHA
Engineering College
(Autonomous)
(Affiliated to Anna University, Chennai, Approved by AICTE, Accredited by NAAC with A+ Grade)
Erode, Tamilnadu.



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)



NANDHA
Since 1992
Learn... Serve... Succeed.

Welcome to

Hackathon '24

Hackpalooza '24
Computing Cluster

HackFusion Fest '24
Circuit Cluster

MACC'athon '24
Core Cluster



SUSTAINABLE
DEVELOPMENT
GOALS



May 29, 2024

Hackathon - Invitation



A group of students were exhibited their ideas, models and products in the department and explained to the Internal and External jury on 29.05.2024 during the Hackathon 2024.

Students Participation in Co-Curricular Activities:

Our students are continuously motivated and encouraged by our department faculty members from the beginning to attend various **Technical and Non - Technical events**. Also our students are participated in **Paper, Poster and Project presentations organized as events like Workshops, Conferences and Seminars** at various reputed **Educational Institutions** in and around the state and other state .They have bagged **Cash awards, Medals, Prizes** etc., consecutively in all academic year started from the inception.



Ms. Josesearc L of II year Chemical Engineering recived Scholarship from Technip Engineers India for her outsatanding academic performance for the year 2023 -2024.

Students Participation in Conferences and Seminars:

| S.No | Reg No | Name | Year | Conference / Seminar Title | Organized By | Date |
|------|---------|--------------------------|------|----------------------------|---|------------|
| 1 | 20CH026 | Subashini R | IV | Poster Presentation | JCT College of Engineering and Technology, Coimbatore | 27.04.2023 |
| 2 | 20CH026 | Subashini R | IV | Project Presentation | JCT College of Engineering and Technology, Coimbatore | 27.04.2023 |
| 3 | 20CH027 | Sugieshivashan mugam A R | IV | Poster Presentation | JCT College of Engineering and Technology, Coimbatore | 27.04.2023 |
| 4 | 20CH027 | Sugieshivashan mugam A R | IV | Project Presentation | JCT College of Engineering and Technology, Coimbatore | 27.04.2023 |
| 5 | 20CH025 | Santhoshkumar V | IV | Paper Presentation | JCT College of Engineering and Technology, | 27.04.2023 |

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|----|---------|-----------------|----|----------------------|---|------------|
| | | | | | Coimbatore | |
| 6 | 20CH025 | Santhoshkumar V | IV | Project Presentation | JCT College of Engineering and Technology, Coimbatore | 27.04.2023 |
| 7 | 22CH041 | Yoganathan A | II | Quiz | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 8 | 22CH032 | Saravanan G | II | Puzzles | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 9 | 22CH037 | Thayananthan B | II | Puzzles | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 10 | 22CH037 | Thayananthan B | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 11 | 22CH006 | Arikaran R | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 12 | 22CH004 | Akash V | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 13 | 22CH004 | Akash V | II | Quiz | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 14 | 22CH007 | Arun kumar K | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 15 | 22CH007 | Arun kumar K | II | Puzzles | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 16 | 22CH026 | Priyadharshan C | II | Puzzles | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 17 | 22CH026 | Priyadharshan C | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 18 | 22CH023 | Mohana sankar B | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 19 | 22CH023 | Mohana sankar B | II | Quiz | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 20 | 22CH018 | Janani S | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 21 | 22CH035 | Sujitha S | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 22 | 22CH035 | Sujitha S | II | Quiz | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 23 | 22CH013 | Guhan M | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering | 21.09.2023 |

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|----|---------|--------------------------|-----|---------------------------|---|-----------------------------|
| | | | | | College, Perambalur | |
| 24 | 22CH003 | Abirami M | II | Paper Presentation | Dhanalakshmi Srinivasan Engineering College, Perambalur | 21.09.2023 |
| 25 | 21CHL02 | Bala Shanmugam K | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 26 | 21CH020 | Mohammed Rishan S | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 27 | 21CH013 | Janani K | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 28 | 21CH016 | Jeevanatham B | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 29 | 21CH008 | Charan K | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 30 | 20CH003 | Dhanush A S | IV | IEEE Yesist12 | Arab Academy for Science Technology & Maritime Transport, Egypt | 02.09.2023 & 03.09.2023 |
| 31 | 20CH019 | Prakadesh U | IV | IEEE Yesist12 | Arab Academy for Science Technology & Maritime Transport, Egypt | 02.09.2023 & 03.09.2023 |
| 32 | 20CH008 | Jayanth S | IV | IEEE Yesist12 | Arab Academy for Science Technology & Maritime Transport, Egypt | 02.09.2023 & 03.09.2023 |
| 33 | 20CH010 | Kishore A | IV | Project Presentation | National Institute of Technical Teachers Training and Research (NITTR), Chennai | 22.06.2023 to 26.06.2023 |
| 34 | 20CH027 | Sugieshivashan mugam A R | IV | Project Presentation | National Institute of Technical Teachers Training and Research (NITTR), Chennai | 22.06.2023 to 26.06.2023 |
| 35 | 20CH027 | Sugieshivashan mugam A R | IV | Ero Intec 2023 | Parimalam Mahal, Erode | 29.07.2023 to 31.07.2023 |
| 36 | 20CH026 | Subashini R | IV | Ero Intec 2023 | Parimalam Mahal, Erode | 29.07.2023 to 31.07.2023 |

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|----|---------|-----------------|-----|---------------------------|--|--------------------------|
| 37 | 20CH025 | Santhoshkumar V | IV | Ero Intec 2023 | Parimalam Mahal,Erode | 29.07.2023 to 31.07.2023 |
| 38 | 20CH005 | Gnanavel P | IV | Ero Intec 2023 | Parimalam Mahal,Erode | 29.07.2023 to 31.07.2023 |
| 39 | 21CH008 | Charan K | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 40 | 21CHL02 | Balashanmugam K | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 41 | 21CHL02 | Balashanmugam K | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 42 | 21CHL02 | Balashanmugam K | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 43 | 21CHL02 | Balashanmugam K | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 44 | 21CH006 | Bhavani M | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 45 | 21CH016 | Jeevanatham B | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 46 | 21CH016 | Jeevanatham B | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 47 | 21CH016 | Jeevanatham B | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 48 | 21CH008 | Charan K | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 49 | 21CH008 | Charan K | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 50 | 21CH013 | Janani K | III | Paper Presentation | Hindusthan College of Engineering and Technology, | 17.10.2023 |

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| | | | | | Coimbatore | |
| 51 | 21CH013 | Janani K | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 52 | 21CH013 | Janani K | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 53 | 21CHL13 | Ravibharathi M | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 54 | 21CHL13 | Ravibharathi M | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 55 | 21CHL13 | Ravibharathi M | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 56 | 21CHL13 | Ravibharathi M | III | Technical Quiz | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 57 | 21CH020 | Mohammed Rishan S | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 58 | 21CH006 | Bhavani M | III | Technical event-connexion | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 59 | 21CH006 | Bhavani M | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 60 | 21CH006 | Bhavani M | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 61 | 21CH008 | Charan K | III | Poster Presentation | KSR Educational Institutions, Nammakkal | 14.02.2024 to 17.02.2024 |
| 62 | 21CH008 | Charan K | III | Workshop on Millet Based Product Development | KSR Educational Institutions, Nammakkal | 14.02.2024 to 17.02.2024 |
| 63 | 23CH005 | Idhikash M | II | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.2023 |
| 64 | 21CHL13 | Ravibharathi M | III | Paper Presentation | Hindusthan College of Engineering and | 17.10.2023 |

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|----|---------|----------------------|-----|------------------------|---|----------------|
| | | | | | Technology, Coimbatore | |
| 65 | 21CHL13 | Ravibharathi M | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 66 | 21CHL14 | Udhit Pillai U S | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 67 | 21CH008 | Charan K | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 68 | 21CH008 | Charan K | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 69 | 21CH016 | Jeevanatham B | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 70 | 21CH020 | Mohammed Rishan S | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 71 | 21CH020 | Mohammed Rishan S | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 72 | 21CHL02 | Balashanmuga m K | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 73 | 21CH006 | Bhavani M | III | Paper Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |
| 74 | 21CH006 | Bhavani M | III | Poster Presentation | Hindusthan College of Engineering and Technology, Coimbatore | 17.10.20 23 |

Student Participations in Workshops

| Sno | Reg No | Name | Year | Workshop | Organized By | Date |
|-----|---------|---------------|------|----------------------------|--|------------|
| 1 | 21CH008 | Charan K | III | Workshop on Aspen HYSYS | Kongu Engineering College, Erode | 02.03.2024 |
| 2 | 21CH016 | Jeevanatham B | III | Workshop on Aspen HYSYS | Kongu Engineering College, Erode | 02.03.2024 |
| 3 | 21CH020 | Mohammed | III | Workshop on | Kongu | 02.03.2024 |

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|----|---------|-----------------|-----|--|---|--------------------------|
| | | Rishan S | | Aspen HYSYS | Engineering College, Erode | |
| 4 | 21CHL02 | Balashanmugam K | III | Workshop on Aspen HYSYS | Kongu Engineering College, Erode | 02.03.2024 |
| 5 | 21CH006 | Bhavani M | III | Workshop on Aspen HYSYS | Kongu Engineering College, Erode | 02.03.2024 |
| 6 | 21CHL02 | Balashanmugam K | III | Workshop on Solar Photovoltaics Applications | Amrita School of Engineering, Coimbatore. | 20.09.2023 to 22.09.2023 |
| 7 | 21CH008 | Charan K | III | Workshop on Solar Photovoltaics Applications | Amrita School of Engineering, Coimbatore. | 20.09.2023 to 22.09.2023 |
| 8 | 21CH016 | Jeevanatham B | III | Workshop on Solar Photovoltaics Applications | Amrita School of Engineering, Coimbatore. | 20.09.2023 to 22.09.2023 |
| 9 | 21CH004 | Ashok A | III | Workshop on Solar Photovoltaics Applications | Amrita School of Engineering, Coimbatore. | 20.09.2023 to 22.09.2023 |
| 10 | 21CHL13 | Ravibharathi M | III | Workshop on Solar Photovoltaics Applications | Amrita School of Engineering, Coimbatore. | 20.09.2023 to 22.09.2023 |
| 11 | 22CH023 | Mohana Sankar B | II | Workshop on hands on workshop | M.A.M College of Engineering and Technology, Tirchy | 28.11.2023 |

National Programme on Technology Enhanced Learning - NPTEL:

About NPTEL:

NPTEL has been offering self-study courses across Engineering, humanities and science streams for more than a decade. From March 2014 NPTEL has been offering online certification for its courses, the highlight being the certification exam through which the student gets an opportunity to earn a certificate from IITs.

To take this initiative forward and to encourage students of NEC – Department of Chemical Engineering to participate in this academic venture, institute set up NPTEL Local Chapter. The aim of this local chapter is to uplift the knowledge/ expertise level of students and faculty members to national/ international level.

Students who have certified with NPTEL Course based on their Secured Score in that Particular course, they are benefitted with adding that Certificate Course in their Academic Progress and that reflects with the Course Exemption in their Open Elective Courses offered by the institute according to the Curriculum...

Student Participation Details;

| S.No | Reg No | Student Name | Year | Name of the Course |
|-------------|---------------|-------------------------|-------------|------------------------------|
| 1 | 20CH001 | Abin Raj D | IV | Forests and their Management |
| 2 | 20CH002 | Akash G | IV | Forests and their Management |
| 3 | 20CH004 | Enbarajan M | IV | Forests and their Management |
| 4 | 20CH006 | Gunalan M | IV | Forests and their Management |
| 5 | 20CH008 | Jayanth S | IV | Forests and their Management |
| 6 | 20CH010 | Kishore A | IV | Forests and their Management |
| 7 | 20CH014 | Mathankumar K | IV | Forests and their Management |
| 8 | 20CH015 | Moorthi G | IV | Forests and their Management |
| 9 | 20CH016 | Nithishchandran P G | IV | Forests and their Management |
| 10 | 20CH017 | Pabinesh P | IV | Forests and their Management |
| 11 | 20CH022 | Ranjith B | IV | Forests and their Management |
| 12 | 20CH023 | Sanjay R | IV | Forests and their Management |
| 13 | 20CH025 | Santhoshkumar V | IV | Forests and their Management |
| 14 | 20CH026 | Subasini R | IV | Forests and their Management |
| 15 | 20CH027 | Sugieshivashanmugam A R | IV | Forests and their Management |
| 16 | 20CH028 | Vengadanarasimman P | IV | Forests and their Management |
| 17 | 20CH029 | Vithyasagar B | IV | Forests and their Management |
| 18 | 20CHL07 | Deniscross D | IV | Forests and their Management |
| 19 | 20CHL12 | Gokul G | IV | Forests and their Management |

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|----|---------|-------------------|-----|---|
| 20 | 20CHL13 | Gowtham P | IV | Forests and their Management |
| 21 | 20CHL14 | Hariharan K | IV | Forests and their Management |
| 22 | 20CHL16 | Muralhidharan A | IV | Forests and their Management |
| 23 | 20CHL17 | Palaniappan K | IV | Forests and their Management |
| 24 | 20CHL21 | Raja B | IV | Forests and their Management |
| 25 | 20CHL23 | Rajkumar D | IV | Forests and their Management |
| 26 | 20CHL24 | Sabin N | IV | Forests and their Management |
| 27 | 20CHL26 | Sreenath P | IV | Forests and their Management |
| 28 | 20CH002 | Akash G | IV | Air Pollution and Control |
| 29 | 20CH004 | Enbarajan M | IV | Air Pollution and Control |
| 30 | 20CH010 | Kishore A | IV | Air Pollution and Control |
| 31 | 20CH013 | Logeshwaran S | IV | Air Pollution and Control |
| 32 | 20CHL14 | Hariharan K | IV | Air Pollution and Control |
| 33 | 20CHL15 | Kennedy Diwakar J | IV | Air Pollution and Control |
| 34 | 20CHL30 | Vutukuru Bharath | IV | Air Pollution and Control |
| 35 | 20CH007 | Hariharan M | IV | Wildlife Ecology |
| 36 | 20CH021 | Ragul S | IV | Wildlife Ecology |
| 37 | 20CHL01 | Aakash B | IV | Wildlife Ecology |
| 38 | 20CHL04 | Anto Shelton S | IV | Wildlife Ecology |
| 39 | 20CHL11 | Esakkipandi S | IV | Wildlife Ecology |
| 40 | 20CHL22 | Rajarithik S | IV | Wildlife Ecology |
| 41 | 21CH007 | Bibin B | III | In Organic Chemical Technology |
| 42 | 21CH012 | Hakkiem S | III | In Organic Chemical Technology |
| 43 | 21CH003 | Aravinth V | III | Cooling Technology: Why and How utilized in Food Processing and allied Industries |
| 44 | 21CH004 | Ashok A | III | Cooling Technology: Why and How utilized in Food |

| | | | | |
|----|---------|-------------------|-----|---|
| | | | | Processing and allied Industries |
| 45 | 21CH008 | Charan.K | III | Cooling Technology: Why and How utilized in Food Processing and allied Industries |
| 46 | 21CH013 | Janani K | III | Cooling Technology: Why and How utilized in Food Processing and allied Industries |
| 47 | 21CH016 | Jeevanantham B | III | Cooling Technology: Why and How utilized in Food Processing and allied Industries |
| 48 | 21CH030 | Sumathi M | III | Cooling Technology: Why and How utilized in Food Processing and allied Industries |
| 49 | 21CHL04 | Dhanush K A | III | Cooling Technology: Why and How utilized in Food Processing and allied Industries |
| 50 | 21CH004 | Ashok A | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 51 | 21CH005 | Athiban C | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 52 | 21CH006 | Bhavani M | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 33 | 21CH008 | Charan.K | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 54 | 21CH009 | Deepak K | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 55 | 21CH012 | Hakkiem S | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 56 | 21CH013 | Janani K | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 57 | 21CH016 | Jeevanantham B | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 58 | 21CH020 | Mohammed Rishan S | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 59 | 21CH021 | Mohankumar M | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 60 | 21CH029 | Sudhakaran J | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |

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|----|---------|------------------|-----|--|
| 61 | 21CH030 | Sumathi M | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 62 | 21CHL04 | Dhanush K A | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 63 | 21CHL05 | Fayis T | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 64 | 21CHL06 | Gokulvasanth K | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 65 | 21CHL07 | Gopalakrishnan C | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 66 | 21CHL08 | Jelet S Jayan | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 67 | 21CHL14 | Udhit Pillai U S | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 68 | 21CHL15 | Vignesh S | III | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends |
| 69 | 21CHL02 | Balashanmugam K | III | Water Quality Management Practices |
| 70 | 21CHL05 | Fayis T | III | Forests and their Management |
| 71 | 21CHL08 | Jelet S Jayan | III | Forests and their Management |
| 72 | 21CHL14 | Udhit Pillai U S | III | Forests and their Management |
| 73 | 22CH018 | Janani S | II | Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems |
| 74 | 22CH041 | Yoganathan A | II | Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems |
| 75 | 22CHL04 | Mahendran R | II | Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems |

Student Projects

An Engineering graduate, on graduation, is expected to have a skillset to find solutions to problems of the society. Along with the domain specific knowledge, other basic skills that are expected are: Communication, Leadership, Teamwork, Problem Solving, Planning, Execution, Motivation and Enthusiasm, Adaptability, Flexibility, and Ability to Build Relationships. All these are mandatory in

engineering education to be experiential, practical, relevant, and up to date. Keeping this in mind, our department offers student's projects (**Creating innovation among students**). They are encouraged to carry out their projects either in Industry or In-house as per their wish. There are **14 batches** with a team of **3 to 4 members** in a batch to do the project work.

Project Details;

| SL.NO | Batch No | Reg No | Name | Project Title |
|-------|----------|---------|---------------------|---|
| 1 | 1 | 20CH012 | Krishna Prasath M | Production of biodegradable plastic from solanum Tubersoum starch |
| 2 | | 20CH004 | Enbarajan M | |
| 3 | | 20CH028 | vengadanarasimman P | |
| 4 | | 20CHL22 | Rajarithik S | |
| 5 | 2 | 20CHL15 | Kennedy Diwakar J | Flow assurance study of steady state and treatment analysis of multiphase pipelines |
| 6 | | 20CH005 | Gnanavel P | |
| 7 | | 20CHL14 | Hariharan K | |
| 8 | 3 | 20CHL15 | Kennedy Diwakar J | Systematic approach of natural gas processing and plant design using ASPEN HYSIS |
| 9 | | 20CH005 | Gnanavel P | |
| 10 | | 20CHL14 | Hariharan K | |
| 11 | 4 | 20CH006 | Gunalan M | Health and safety environmental fire fighting and safety equipment |
| 12 | | 20CH018 | Pavithra R | |
| 13 | | 20CHL13 | Gowtham P | |
| 14 | 5 | 20CHL17 | Palaniappan K | Simulation studies of methanol dehydration to produce dimethyl Ethar using ASPEN HYSIS |
| 15 | | 20CHL21 | Raja B | |
| 16 | | 20CHL23 | Rajkumar D | |
| 17 | 6 | 20CHL28 | Vishanth A | Extraction and formulation of perfume from lemon grass |
| 18 | | 20CHL25 | Anto Shelton S | |
| 19 | | 20CHL11 | Esakkipandi S | |
| 20 | 7 | 20CH023 | Sanjay R | Production of paper pulp from groundnut shell |
| 21 | | 20CH011 | Kishore V | |
| 22 | | 20CHL06 | Balu K | |
| 23 | | 20CH007 | Hariharan M | |
| 24 | 8 | 20CH009 | Jeevitha C | Production of biodiesel from Microalgae spirulina |
| 25 | | 20CH022 | Ranjith B | |
| 26 | | 20CHL12 | Gogul G | |

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|----|----|---------|----------------------|---|
| 27 | | 20CHL29 | Vishwa M | |
| 28 | 9 | 20CHL26 | Sreenath P | Adsorption of phenolic compounds by polysulfone capsules |
| 29 | | 20CHL25 | Shri Santhan M | |
| 30 | | 20CHL05 | Ahkil john | |
| 31 | | 20CHL02 | Adarsh S | |
| 32 | | 20CH024 | Sanjay V | |
| 33 | 10 | 20CH013 | Logeshwaran S | Extraction of ootanga oil from watermelon seed |
| 34 | | 20CH015 | Moorthi G | |
| 35 | | 20CH020 | Ragul S | |
| 36 | | 20CHL24 | Sabin N | |
| 37 | 11 | 20CHL30 | Vutukuru Bharath | Effective leaching strategy for waste management of spent Lithium ion batteries |
| 38 | | 20CH017 | Pabinesh P | |
| 39 | | 20CHL07 | Denis cross D | |
| 40 | | 20CH019 | Prakadesh U | |
| 41 | 12 | 20CH001 | Abinraj D | Manufacture of calcium sulphate by using calcium carbonate |
| 42 | | 20CH002 | Akash G | |
| 43 | | 20CH029 | Vithyasager B | |
| 44 | | 20CH008 | Jayanth S | |
| 45 | 13 | 20CH010 | Kishore A | Production of permethrin |
| 46 | | 20CH016 | Nithis Chandran P.G | |
| 47 | | 20CH027 | Sugisivasanmugam A.R | |
| 48 | | 20CH021 | Ragul S | |
| 49 | 14 | 20CH014 | Mathankumar K | Detection of the residues of various pesticides in fruit and vegetable samples using GC-MS &HPLC |
| 50 | | 20CHL01 | Aakash B | |
| 51 | | 20CHL16 | Muralidharan A | |

Inplant Training:

The Department of Chemical Engineering has a culture to motivate our students to acquire fruitful knowledge through Inplant Training. These Inplant training will provide a insight to the students to enhance their theoretical knowledge by gaining practical exposure. Our department has framed **17CHP09-INPLANT TRAINING** as a mandatory one during their semester holidays from the beginning of second year, it is just to help the students to know about how the industry functions and role of Chemical Engineers in the Industry and also to meet the demand because most of the core Industries hiring fresh graduates who are very strong in Industrial knowledge and exposure.

| S.No | Reg No | Name | Year | Industry Name | Date | |
|------|---------|-------------------|------|---|------------|------------|
| | | | | | From | To |
| 1 | 20CHL15 | Kennedy Diwakar J | IV | FERMION ENERGY & ENGINEERING SOLUTIONS PVT LTD, COIMBATOTRE | 20.12.2023 | 15.05.2023 |
| 2 | 20CHL14 | Hariharan K | IV | FERMION ENERGY & | 20.12.2023 | 28.05.2024 |

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|----|---------|------------------|-----|---|------------|------------|
| | | | | ENGINEERING SOLUTIONS PVT LTD, COIMBATOTRE | | |
| 3 | 20CH026 | Subasini R | IV | FERMION ENERGY & ENGINEERING SOLUTIONS PVT LTD, COIMBATOTRE | 20.12.2023 | 23.04.2024 |
| 4 | 20CH025 | Santhosh Kumar V | IV | FERMION ENERGY & ENGINEERING SOLUTIONS PVT LTD, COIMBATOTRE | 20.12.2023 | 18.04.2024 |
| 5 | 20CH005 | Gnanavel P | IV | FERMION ENERGY & ENGINEERING SOLUTIONS PVT LTD, COIMBATOTRE | 20.12.2023 | 18.04.2024 |
| 6 | 20CH003 | Dhanush A.S | IV | FERMION ENERGY & ENGINEERING SOLUTIONS PVT LTD, COIMBATOTRE | 12.02.2024 | 18.05.2024 |
| 7 | 21CHL12 | Prasanth K | III | PERUNDURAI COMMON EFFLUENT TREATMENT PLANT | 26.12.2023 | 02.01.2024 |
| 8 | 21CH009 | Deepak K | III | PERUNDURAI COMMON EFFLUENT TREATMENT PLANT | 26.12.2023 | 02.01.2024 |
| 9 | 21CH021 | Mohan Kumar M | III | PERUNDURAI COMMON EFFLUENT TREATMENT PLANT | 26.12.2023 | 02.01.2024 |
| 10 | 21CHL03 | Deepak Kumar A | III | PERUNDURAI COMMON EFFLUENT TREATMENT PLANT | 26.12.2023 | 02.01.2024 |

Industrial Visit:

Industrial visit has its own place of importance in the career of a student who is pursuing a professional degree course like Engineering / Technology. In fact, it constitutes a part of the core course curriculum taught at the college.

Objective of Industrial Visit:

It is to provide the students an insight regarding the internal working of companies. Today, we all perfectly understand that theoretical knowledge is just

not enough for a successful professional career. It is here that by going beyond academics, industrial visit provides students a much relevant practical perspective of the actual work place.

Some of the key points of importance of Industrial visits can be enumerated as given below:

- Industrial visits provide the Chemical Engineering students with an opportunity to learn practically through industrial expert's interaction, working methods and employment practices.
- It gives the Chemical Engineering students an exposure to current work practices in the industry as opposed to theoretical knowledge being taught in classrooms.
- Industrial visits grant the students a great opportunity to interact with industry persons like HR, Plant Manager, and Plant Operators etc., and know more about the industrial environment.
- Industrial visits are arranged by us to Chemical Engineering students with an objective of providing them an opportunity to explore the different Chemical Engineering sectors like Cement, Pharma, Energy, Petrochemicals etc.,
- Industrial visit helps students to combine their theoretical knowledge of business operations with the practical knowledge of its actual functioning.
- Industrial realities are opened to the students through industrial visits.
- When pursuing a professional degree like Engineering / Technology, industrial visit has its own importance for students because only theoretical knowledge is not sufficient for their proper understanding of the actual operations in the industries.
- The practical knowledge on handling Unit Process and Unit Operations in the Industry and what are the real life challenges being faced during the process can only be learnt through having practical experience from industrial visits.
- Interactions with industrial Persons get more exposure to the Chemical Engineering Students towards the current work conditions of any Chemical Engineering Sector industry.
- Another important perk of going for an industrial visit is that it acts as a bridge between the student and their dream company. The chances of building-up a good relationship with the employees and actually getting an opportunity for an internship or even placement in that industry is maximum based on their outstanding performance in spot assignments and showing good manners.
- The employee contacts are precious especially when the students wish to pursue the same career.

| S.No | YEAR | DATE | INDUSTRY NAME & PLACE |
|-------------|-------------|-------------|---|
| 1 | III | 24.05.2024 | The Travancore Cochin Chemicals Ltd - Cochin |
| 2 | II | 24.05.2024 | THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED - Cochin |



II nd Year Chemical Engineering Students taken a Group photo during their industrial visit at THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED – Cochin



III rd Year Chemical Engineering Students taken a Group photo during their industrial visit at The Travancore Cochin Chemicals Ltd – Cochin



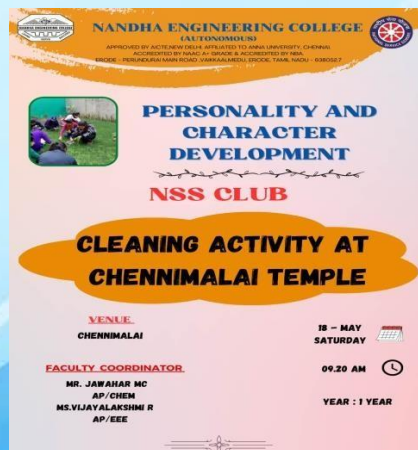
A team of IVth Year Chemical Engineering Students Presenting a Memento to HR – The Travancore Cochin Chemicals Ltd – Cochin during the Industrial Visit.

Students Extra-curricular activities (Club Activities/Sports/ Cultural)

Extra-Curricular Activities interested students are **enthusiastically motivated and encouraged** by our Department faculty members from the very beginning of first year to attend various activities like Club , Cultural and sports events organized by our campus and outside of the campus. Our Students are allowed with On Duty for participating in the Inter-Collegiate Cultural, Sports and Games who have won many trophies in above said events and Competitions.

Club Activities:

Student clubs at college level promote the shaping of skills of the students and make them truly life-ready. It plays a crucial role in determining and channelizing the passion and interest of students, much beyond their academic pursuit. The extracurricular activities that are routinely organized by institute and club activities teaches the students practical lessons of life, making them not only job-ready but also making them ready to face the uneven path of survival in this world of vicious competition.



Club activity Invitation



A group of First and Second Year Chemical Engineering Students are started cleaning through NSS Club in Murugan Temple – Chennimalai – Erode.

Sports Activity:



Mr. Saravanan G and Mr. Arikaran R of IIrd Year Chemical Engineering with their Team Members were participated in Nandha alumni trophy – Erode. They were become runners in that event. A group photo with their team members after their victory.



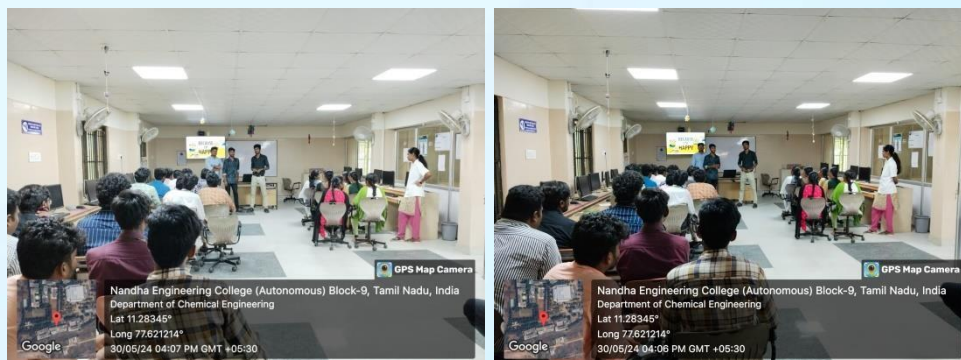
Mr. MOHAMMED HAFIZ I of IIrd Year Chemical Engineering participated in Nandha alumni trophy – Erode. He became Best fielder of the tournament.

Alumni Corner – Alumni Interaction

- 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 next year.
- To utilize their rich experiences for the benefit and progress of their juniors.
- To provide career guidance to juniors for their endeavour to get better employment in reputed Industry and higher studies in premier Educational Institutions.
- To promote more number of core on - campus placement drive through Alumni.
- To get the valuable advices from them about the overall development of Department and Campus.
- To arrange Teaching and Training classes to juniors through 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 **Ist, IInd, IIIrd & IVth** Year Chemical Engineering students.



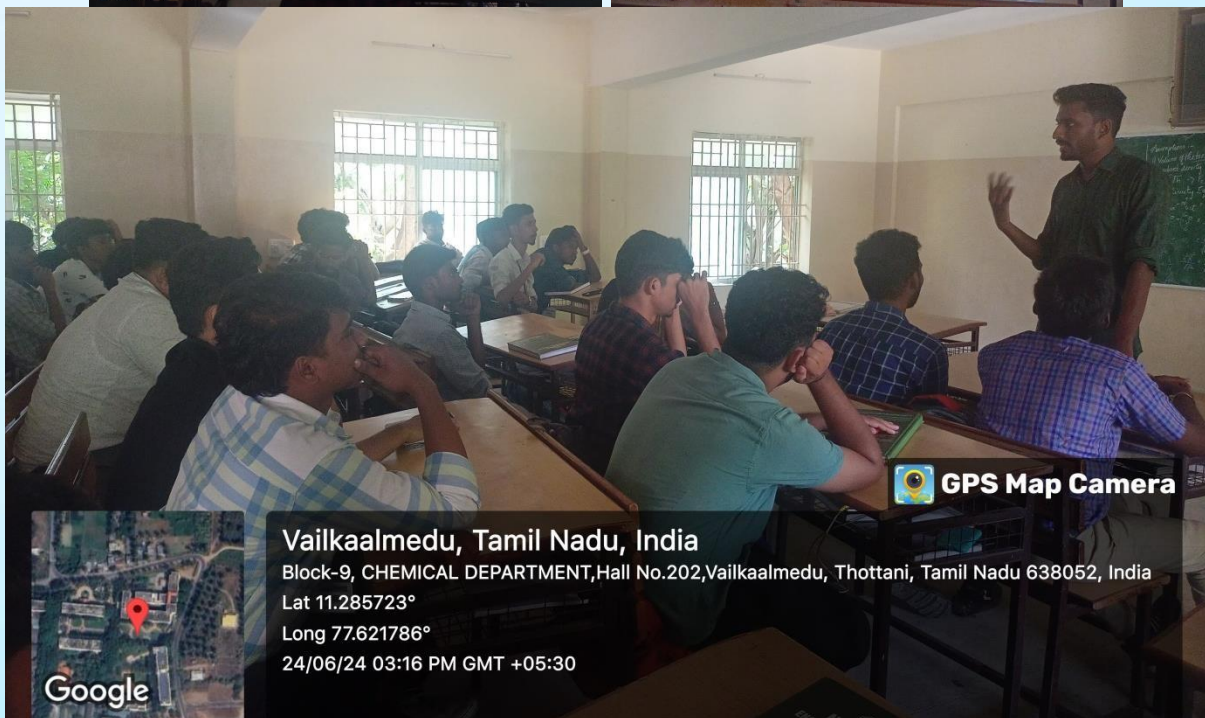
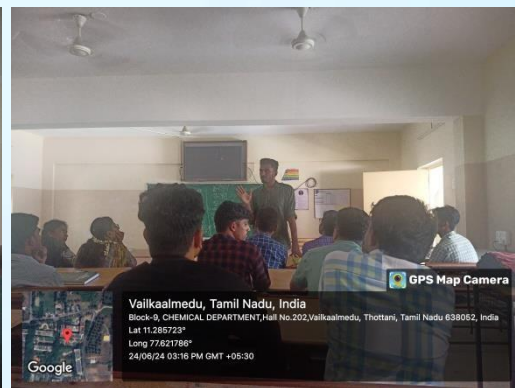
Alumni Interaction – Banner



Mr.Dhanush A S, Mr. Ganavel P & Mr. Santhosh Kumar V of 2021 - 2024 Batch sharing their experience and their success in placements to III Year Chemical Engineering Students on 30.05.2024.



Mr.Muralidharan A of 2021 - 2024 Batch sharing his experience in present job to III Year Chemical Engineering Students on 29.04.2024



Jayaprakash. C of 2018 - 2022 Batch sharing his experience in present job to IV Year Chemical Engineering Students on 29.04.2024

Faculty Corner
Faculty Publications

| S.No | Name Designation | Article Title | Journal Name | Period of Publication |
|------|------------------|--|--|--|
| 1 | Dr.A. Murugesan | Magnetically Adsorption of Copper Removal from Industrial waste water using Nanocomposites | European Chemical Bulletin | Vol.12, No.10, pp.5247-5263, August 2023 |
| 2 | Dr.A. Murugesan | An Ecological Problem of Heavy Metal Removal by using Green Synthesized Magnetically Recovery Fe ₃ O ₄ @ZnO Nanocomposites | Indian Journal of Environmental Protection | Vol.43, No.6, pp.483-492, June 2023 |

Patent Details:

| SL.No | Application Number | Name of the faculty | Title of the Patent | Status | Published Grant |
|-------|--------------------|--|--|----------------------------|-----------------|
| 1 | Docket No: 109344 | Dr.N.Subramanian Mr. K. Rajasekaran Mr. M C Jawahar Mr. A. Vishnu | Formulation of Biodegradable Sanitary napkins using corn husk and banana trunk fiber | Patent Provisional Applied | 12.10.2023 |

Faculty Participation/Paper Presentations in FDP, Workshop, Conferences and Seminars:

| S.No | Name | Title of the FDP/Workshop/Conference/Seminar | Organized by |
|------|------------------|---|----------------------------------|
| 1 | Mr. M C Jawahar | Innovation Ambassador (IA) Training : Advanced Level | MoE'S innovation cell and AICTE. |
| 2 | Mr. M C Jawahar | Innovation Ambassador (IA) Training : Foundation Level | MoE'S innovation cell and AICTE. |
| 3 | Ms. M. Geetha | Faculty Industrial Training | Shakthi Knitting Private limited |
| 4 | Ms. Keerthika S. | Faculty Industrial Training | Shakthi Knitting Private limited |

Faculty NPTEL Details:

| S.No | Faculty Name | Name of the Course |
|------|---------------------|--|
| 1 | Mr. K. Rajasekaran | Technologies for clean and Renewable energy Production |
| 2 | Mr. M C Jawahar | Technologies for clean and Renewable energy Production |
| 3 | Mr. S. Pandiarajan | Petroleum Technology |
| 4 | Mr. B. Vinoth kumar | Petroleum Technology |

Department Core Industries On/Off Campus Placement Activities:

Our Campus Training and Placement Cell (TPC) is actively functioning and have magnanimous relationships with MNC's. **In addition to this, the department has good rapport with large scale Core Industries like (Southern Petrochemical Industries Corporation (SPIC) - Tuticorin, Tuticorin Alkali Chemicals and Fertilizers Limited, Solara Active Pharma - Chennai, Biocon Biologics Limited - Bengaluru, PPG - Asian Paints - Chennai, Tagros Chemicals India Ltd - Cuddalore, Stellance PharmScience- Bengaluru, Balmer Lawrie & Co. Ltd - Chennai, Indian Molasses Company etc.,).** These Industries are frequently come over here to recruit our Chemical Engineering Students through Campus Placement Drive. During the Placement Drive day, the aforementioned Industries used to introduce briefly about their Industry and the Selection process like **Written Examination, Technical, Aptitude, Group Discussion and HR Round** in the campus itself and finally the selected students list are announced on the same day.

The unique objective about this Department is that the dream of becoming an Industry Ready Engineering Graduate in the Chemical Engineering core in Top Multinational Industries will be ensured by us as true one.

Department Regular Recruiters:

- The following Corporate Companies are frequently visiting and recruiting our students due to our Nandha Educational Institutions branded Alumni who are consistently performing well and contributing the excellent service towards the growth of the Organization.



SPIC - Tuticorin



Manali Petrochemical



Biocon - Bangalore



Tamilnadu Petro products- Chennai

LTD - Chennai



Cetex
Petrochemicals -
Chennai



Orchid Pharma Ltd -
Chennai



Tuticorin Alkali
Chemicals &
Fertilizers Ltd.



Solara Active
Pharma - Chennai



Tagros - Cuddalore



PPG Asian Paints Pvt
Ltd - Chennai



Sun
Pharmaceuticals



Thirumalai
Chemicals Ltd-
Ranipet



Stellence pharmscience pvt ltd - Bengaluru



Indo Shell Cast Pvt Ltd - Coimbatore



Indian Molasses Company – Chennai



RELPROC ENGINEERING –
Coimbatore

Company Visited

| S.No | Company Name | ON/OFF Campus |
|------|---|---------------|
| 1 | Southern Petrochemical Industries Corporation Limited- Tuticorin | OFF Campus |
| 2 | TAGROS Chemicals Pvt Ltd – Cuddalore | OFF Campus |
| 3 | RELPROC ENGINEERING – Coimbatore | OFF Campus |
| 4 | ICFCS - Chennai | OFF Campus |
| 5 | National Oxygen Limited – Erode | OFF Campus |
| 6 | Lake Chemicals – Bangalore | OFF Campus |
| 7 | Kavin Engineering and Services Private Limited – Coimbatore | OFF Campus |

| | | |
|----|---|------------|
| 8 | Chemplast Sanmar Limited - Mettur | OFF Campus |
| 9 | U H P - Technologies - Bangalore | OFF Campus |
| 10 | Sanvira Bio Sciences Pvt Ltd - Hyderabad | OFF Campus |

Placed Students Details:

| S.No | Name of student placed | Name of the Employer | Annual Pay package on appointment (LPA) |
|-------------|-------------------------------|---|--|
| 1 | Abin Raj D | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 2 | Akash G | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 3 | Dhanush A S | SPIC - Tuticorin | 2.25 LPA |
| 4 | Enbarajan M | National Oxygen Limited - Erode | 1.45 LPA |
| 5 | Gnanavel P | SPIC - Tuticorin | 2.25 LPA |
| 6 | Gunalan M | RELPROC ENGINEERING - Coimbatore | 1.2 LPA |
| 7 | Jayanth S | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 8 | Jeevitha C | ICFCS - Chennai | 1.45 LPA |
| 9 | Kishore A | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 10 | Logeshwaran S | ICFCS - Chennai | 1.45 LPA |
| 11 | Mathankumar K | Lake Chemicals - Bangalore | 1.87 LPA |
| 12 | Moorthi G | ICFCS - Chennai | 1.45 LPA |
| 13 | Nithishchandran P G | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 14 | Pabinesh P | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 15 | Pavithra R | RELPROC ENGINEERING - Coimbatore | 1.2 LPA |
| 16 | Prakadesh U | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 17 | Ragul S | S.S Biocon - Bangalore | 1.45 LPA |
| 18 | Ragul S | ICFCS - Chennai | 1.45 LPA |
| 19 | Ranjith B | ICFCS - Chennai | 1.45 LPA |
| 20 | Sanjay R | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 21 | Sanjay V | ICFCS - Chennai | 1.45 LPA |
| 22 | Santhoshkumar V | SPIC - Tuticorin | 2.25 LPA |
| 23 | Subasini R | Kavin Engineering and Services Private Limited - Coimbatore | 3.24 LPA |
| 24 | Sugieshivashanmugam A R | Chemplast Sanmar Limited - Mettur | 3.85 LPA |

| | | | |
|----|---------------------|--|----------|
| 25 | Vengadanarasimman P | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 26 | Vithyasagar B | Tagros Chemical Pvt Ltd - Cuddalore | 1.87 LPA |
| 27 | Aakash B | Lake Chemicals – Bangalore | 1.87 LPA |
| 28 | Esakkipandi S | National Oxygen Limited – Erode | 1.45 LPA |
| 29 | Gokul G | ICFCS - Chennai | 1.45 LPA |
| 30 | Gowtham P | RELPROC ENGINEERING – Coimbatore | 1.2 LPA |
| 31 | Hariharan K | RELPROC ENGINEERING – Coimbatore | 1.2 LPA |
| 32 | Kennedy Diwakar J | U H P – Technologies – Bangalore | 3.25 LPA |
| 33 | Muralhidharan A | Lake Chemicals – Bangalore | 1.87 LPA |
| 34 | Raja B | RELPROC ENGINEERING – Coimbatore | 1.2 LPA |
| 35 | Sreenath P | Sanvira Bio Sciences Pvt Ltd - Hyderabad | 1.87 LPA |