

## Newsletter

# The Catalyst

(Accelerating your Growth rate)

Issue - II, December, 2022

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# Department of Chemical Engineering

## Vision

To be a leader in Chemical Engineering Education and Research by providing balanced learning and fostering research to enable the learners to meet the challenges of process industries and societal needs.

## Mission

The Department of Chemical Engineering strives to produce graduates who practice Chemical Engineering professionally and ethically in a competitive global environment and contribute to the betterment of society, thereby focusing on the development of engineers to foster innovation through proficiency and effective communication.

## Motivation: Alumni page

### Time to face the real world

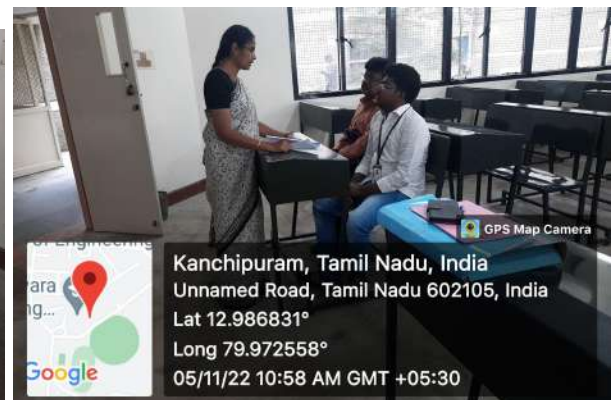


In colleges, our professors are kind to us. Real world outside college will never be the same. It is good to always think positive but prepare yourself for the worst-case scenarios because you are about to face the real world. This would make you mentally stronger. Initially I was afraid too. Hence I started building my basics. I started questioning with multiple whys for better clarity. This boosted my confidence. Be it any subject - Sharpen yourself by refreshing your basics. That's the key for your preparation. Always question yourself with multiple "Why's". Transform the complex text-book definitions into simple layman words. Try to explain chemical engineering to your friends and family with day to day examples. When you map any concept to real life examples, it stays with you forever. The art of problem solving is making things simpler. Most of the time, we don't see the solution in front of us. We become blind by the stress and pressure around us. Start everything from scratch. Break down your complex problem statement into multiple simple statements. Write them down for better visualization. Focus on them one by one. Life is like a chemical reaction. It can be controlled by the careful manipulation of inputs. However, there could be judgemental errors which we can't avoid. Never be afraid of mistakes. Accept those mistakes, learn from them. Remember - It is always okay to make mistakes but never make a mistake of repeating them. Last but not the least, right knowledge and right attitude will always take you to places.

Mr.S.Deepak Kumar (2005-2009)  
Manager - process consultant - APC & IIOT.  
Yokogawa India Limited.

## Parent Teacher Meeting - A Day to appraise.

Parents were appraised about their ward on 5th November 2022 about their academic performance, attendance, assessment performance and lack of discipline(if any)



## Internship/Inplant Training: Process Industries/ Societal needs

- The power of Online Internship and weekend training is absorbed by the following students (mentioned in wall of names) on their personal interest to learn their importance in process industries and/or society. This is also one of the benefits of Sri Venkateswara College of Engineering, as being a Student Chapter of Indian Institute of Chemical Engineers (IIChE).

indian oil corporation  
kalpaka chemicals  
c jeyaprakash      jayasree y g  
krishna moorthy b  
sooraj r      tcmpf aavin  
sri sai sahana v i  
nutech cnc pvt ltd      rabin g



## Training: Strengthen the mind

Dr.R.Govindarasu, Assistant HOD & Associate Professor, had participated in a week long Faculty development program at Annamalai University, Chidambaram; one the topic of **DISASTER MANAGEMENT**.



Dr.N. Meyyappan, HOD/CHE, Mrs. A.C.Vijayalakshmi, Dr. D. Sivakumar and Mr. S. Jai Ganesh Assistant Professor and the following third year Students of B.Tech Chemical Engineering, Ms. Charulatha G, Mr. Gunasekar T, Mr. Jow Raymund J, Ms. Abirami GN, Mr. Paveenraj DS, Ms. Shrma M, Mr. Thamaraikannan E, Mr. Sai Akshay S, Mr. Wesley Caleb M, and Ms. Swathy R. has participated in **INDUSTRY INSTITUTION PARTNERSHIP SUMMIT** at Raintree Hotel, Chennai; to understand the necessity and various platforms in which the industry and institution tie up can benefit the students.

## Fostering Research: Awards & Achievements:

IChE Grant Sanctioned to our B Tech final year students (3 batches) to perform their final year project mentored by our faculty members Dr. R. Govindarasu, AHOD & ASP, Dr. N.P. Kavitha, AP and Dr. Philip Bernstein Saynik, AP.



List of approved UG (B.Tech) Project Grants for 2022 - 23			
Sl.No.	Title of the project	Name of the Students	Name of the Supervisor
1	Investigating the effect of alkali and alkaline earth metals (AAEM) on the pyrolysis of invasive biomass species	Ram Karthik Vasam H; Sai Durga Shoba R; Selva Subash M.	Dr. Philip Bernstein Saynik
2	Synthesis of cathodes for room temperature sodium sulphur batteries	Poojitha Bhaskara; Supreetha Dhamodharan; Oviyan S.	Dr. N.P. Kavitha
3	Real time production and investigation of aspirin by the lab scale vacuum reactive distillation apparatus	Chezhan K.; Maheshwari R; Ezhil Arasan K.	Dr. R. Govindarasu

The following students have participated in technical events in the month of December 2022 have been decorated in the wall of names below.

energy summit 2022

eeenix-2k22

poojitha bhaskara

seethapathi akash r

ranjani r

paveenraj d s

wesley caleb m

icube

invente 22

sneha s

## Journal Publications:

Total 5 no of technical papers published in Journals from the Department of Chemical Engineering in collaboration with students/faculties. The titles of the papers are given wall of names below,

**Faculty Contributors:** Dr. N.Meyyappan HOD/CHE, Dr. R.Govindarasu AHOD& ASP, Dr. R. Palani, ASP, Dr. G.Sudha, ASP and Dr. D. Sivakumar, AP.

**Student Contributor:** Karthick S

Enzymatic Degradation of Polycarbonates: Response Surface Methodology (RSM) Based Approach.	Numerical Investigation of Microchannel Cooling Using Nanocomposites	Biosorption of Cr (VI) ions by Ficus religiosa barks: Batch and continuous study
Synthesis and performance of a cathode catalyst derived from areca nut husk in microbial fuel cell	INVESTIGATION ON HUMAN FACTORS INFLUENCING HEALTH AND SAFETY PERFORMANCE IN THE CONSTRUCTION INDUSTRY	

## Recent Campus Placement:

Total 6 no of students have secured campus placement in M/s.Chemfab Alkalis Limited, Karaikal. The respective students have decorated the wall of names below

deepak  
ram karthik vasan  
yasir arafath  
shreeyas ms  
divakar

## Extra - curricular activities:

The following students of Final year B.Tech Chemical Engineering played in the college team, which secured runner up in Zonal level Hockey Game,

Students Name: Mr. Madhan kumar.S and Mr.Cibinandhan. K





And Mr. GURUMOORTHY K, a final year student of B.Tech Chemical Engineering, has played in the college team, which emerged as winner in the Zonal level Team Chess competition. He also secured a Chess rating of 1364.



And a third year student Mr. Jow Raymund I, has been actively involved in Calibrations 2022, as a volunteer in Music Club SVCE.



Programmes run by the Department of Chemical Engineering are,

- **B.Tech Chemical Engineering**
- **M.Tech Chemical Engineering**
- **Ph.D**

**B.Tech CHEMICAL Engineering – PROGRAMME SPECIFIC OUTCOME's**

**PS01: Apply the knowledge of science and mathematics in the field of various transport processes to accomplish the contemporary needs of chemical and allied industries.**

**PS02: Execute the chemical engineering principles and modern engineering tools to conduct experiments or design a system for developing quality chemical processes by considering the cost, safety and environmental aspects.**

**M.Tech CHEMICAL Engineering - PROGRAMME SPECIFIC OUTCOME's**

**PS01: Apply the knowledge of science and mathematics in the field of various transport processes to accomplish the contemporary needs of chemical and allied industries.**

**PS02: Execute the chemical engineering principles and modern engineering tools to conduct experiments or design a system for developing quality chemical processes by considering the cost, safety and environmental aspects.**