



The newsletter of Department of Chemical Engineering

### CHEMIXIR

December 2020 to May 2021

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Principal: Dr.D.S.Bormane

Head of Dept.: Dr. P.N Dange

Editor: Prof.P.S.Tadkar

## Editorial Board

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**Prof.P.S.Tadkar**

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**Ms. Vaishnavi N. Ghorpade**

**Mr. Abhishek B. Kumbharde**

*From Principal's Desk:*



It is good to see the latest edition of news letter of Chemical Engineering Dept. On this occasion of publication of this news letter I introduce to you an entirely new approach of learning in our college. An approach,

where traditional methods of learning go hand in hand with modern learning techniques, keeping with the current trends and technology.

We facilitate our students to excel academically and to develop their personalities in diverse fields.

To this end, we have complemented academics with other developmental activities such as performing arts, sports, hobbies and technical clubs, to name a few.

Each student is encouraged to explore their areas of interest and to develop their talent to the maximum.

Our teaching staff is dedicated and knowledgeable in their subjects.

They have a passion to pass on this enthusiasm to each student and to inculcate in them the spirit of curiosity and learning.

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## *Form Editors Desk...*

It gives us great pleasure to hand over to you "CHEMIXIR" the newsletter of Chemical engineering department.

The department has 19 staff members and more than 220 students. All of us are involved in number of activities and working for development of the department. We thought it would be proper to come out with a newsletter to highlight these activities. In an engineering learning this activity adds common platform to showcase the talents. It also provides for showcasing of achievements and efforts taken by one and all which contribute towards department strengths. It is our attempt to get maximum contribution from staff and students to come together and interact through this newsletter. We try to pick the moments of guest lectures conducted by dept., various site visits carried out, competitions organized, various achievements and participation by students and staff. We hope this news letter will help us in its own way to achieve our goal & realize our vision progressively.

Hope you will find this newsletter informative. Your suggestions for improvement in the newsletter are welcome.

### **Editors**

#### **1. Programmes:**

UG : BE ( Chemical Engg.)

PG : ME (Chemical Engg.)

#### **2. Faculty position:**

Professors : 03

Asso. Professors : 01

Asst. Profess : 12

#### **3. Supporting Staff :06**

## *From HOD's Desk...*



Department of Chemical Engineering was established in the year 1996, with an intake capacity of 60 students for UG and 18 students for PG . The Department has, well-qualified and experienced faculty with an average experience of 8-10 years. Faculty is also involved in research & professional activities inside & outside the campus. They are encouraged to upgrade their knowledge and qualifications The department was successful in giving consistently good academic results in last three years and motivating the students to involve in extra curricular and co-curricular like paper presentation, Project competition etc. leading towards all-round development of our students. The Department has well-established laboratories with sophisticated equipments & instrument. We have organized number of workshops and seminars for the students and staff.



**"When a dollar note is crumpled**

**It doesn't lose its value**

**Remember that**

**When someone belittles you**

**No matter how much, right now**

**Life feels like a mess**

**Never ever forget, there is**

**No sweeter revenge than success"**

- AMAN SAYYAD, JGS

# Faculty Achievement

		Term One
S N	Name of Faculty	Awards & Recognition
1	Dr P N Dange	Invited as a member of the committee for granting extension of 'Research Centre' at VIT Pune and VIIT Pune, 2021.
2	Dr A S Jadhav	Plenary speaker in 23rd International Conference on Nanotechnology and Nano-medicine Zurich Switzerland
3	Mr R S Raut	Production of 1000 lit sanitizer to fight against COVID-19
		Term Two
SN	Name of Faculty	Awards and recognition
1	Dr A S Jadhav	Awarded PhD –Birla Institute of Technology Mesra Ranchi on 23 March 2021
2	Dr S B Ghugare	Subject Chairman for AT Exam at University level
3	Mrs H L Kamble	Subject Chairman at University Level
4	Mr. P M Warke	Subject Chairman for CED II, SPPU, Pune (Examination October 2020)

# Moments

**AIChE**  
The Global Home of Chemical Engineers

**AISSMS**  
COLLEGE OF ENGINEERING  
असतो मा सद्गमय

**ICHE**  
AISSMS COE

## *Outstanding Student Chapter!!*

*for the year 2020-2021*

**Leadership and Guidance:**

Dr. P. N. Dange  
HOD & Faculty Advisor  
AIChE Student Chapter,  
Department of Chemical Engineering,  
AISSMS COE

Ms. M. A. Kulkarni  
Ex-President  
AIChE Student Chapter,  
Department of Chemical Engineering,  
AISSMS COE

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*"We are what our thoughts have made us; so take care about what you think.*

*Words are secondary. Thoughts live; they travel far" - Swami Vivekananda*

## Webinar on "Scope of Piping Engineering in Oil and Gas Sector"

The IICbE Students' Chapter, Department of Chemical Engineering, AICSSMS College of Engineering, Pune-01 organized a webinar on the topic "Scope of Piping Engineering in Oil and Gas Sector" on May 30, 2021. Mr. Atul Singla, Principal Piping Engineer at PETROFAC Ltd, Gurgaon was the invited speaker for the webinar. Mr. Atul Singla started with his presentation in which he gave an overview of the Piping Engineering. He gave an introduction on Piping Engineering Department and how it works in collaboration with other Departments in an EPC. He further mentioned about roles and responsibilities of Piping Designers or Layout Engineers, Piping Material Engineers and Piping Stress Engineers. He showed various slides on working of oil and gas industrial pipelines and their management. He explained how the upstream, mid-stream and downstream work and the role of piping engineers there. Further he gave details about what is Piping Engineering and how it contributes to the Oil & Gas sector.

The screenshot shows a Zoom webinar interface. The title bar at the top reads "Webinar: 'Scope of Piping Engineering in Oil and Gas Sector'". The main content area displays a slide with the following structure:

- Scope of Piping Engineering**  
Oil and Gas Energy Sector
- Visualize Scope of Piping Engineering in Industry**
- Inputs & outputs**
  - Refining Processes
  - Difference between Refinery & Petrochemical Plant
- What Piping Engineers Do?**
  - What is EPC?
  - What are various Disciplines & Stakeholders
  - Piping Department
- Step-1 — Step-2 — Step-3 — Step-4**
- Understand Sector**
  - What is Energy Sector
  - Understand Oil & gas Industry
- Piping Engineering**
  - Visuals : Actual Plant Pictures
  - What is Piping Engineering
- Explore Scope for individuals in Piping Engineering**

At the bottom of the slide, it says "By Atul Singla - Principal Piping Engineer (www.EPCand.com)". The Zoom interface includes a "Request control" button, a "Leave" button, and a list of participants at the bottom.

## Webinar on “Innovation Driven Entrepreneurship”

IICChE Students’ Chapter, Department of Chemical Engineering, AICSSMS College of Engineering, Pune-01 organized a webinar on the topic “Innovation Driven Entrepreneurship” on January 30, 2021. Mr. Santosh Khawale, M-Tech, IITM, MS-Italy, Strategic Engineer, Desicolab founder, Pune was the invited speaker for the webinar. Mr. Santosh started with basics of entrepreneurship and opportunities in Desicolab, Pune. More focused on innovation driven entrepreneurship (IDE) it is defined as the pursuit of opportunities focused on products or repeatable services beyond the local market. Then he covered major topic i.e. Innovation and types of innovation with examples. After that execution topic was discussed. This informative session was accompanied by questions and answers session.



## Department Vision:

To be a leader in Chemical Engineering education providing service to society

## Department Mission:

1. To prepare graduates for **responsible positions** in chemical industry, academia and research
2. To prepare graduates to **analyze and solve problems** of chemical industry, academia and research

## Program Educational Objectives (PEOs)

1. **Competency:** To prepare competent graduates in Chemical Engineering so that they are successful in their professional career in industry, academia or research
2. **Problem Solving Skills:** To prepare graduates who can identify, analyze, research and solve Chemical Engineering problems of practical importance to industry, academia or research
3. **Leadership Skills:** To prepare graduates with effective communication, teamwork and leadership skills so that they can play effective role in industry, academia and research institutes.

## Program Specific Outcomes (PSO) and Program Outcomes (PO)

### Program Specific Outcomes (PSO)

#### Chemical Engineering graduates will be able to:

1. Identify, analyze, design and develop solutions to Chemical Engineering problems of practical importance to industry and society.
2. Demonstrate sound understanding of Chemical engineering fundamentals to solve problems through the use of modern experimental methods, computer aided design and simulation software

### Program Outcomes (PO)

Engineering Graduates will be able to:

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.  
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- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.