

## Vision of the Department

To be the prime seat of quality education in chemical engineering that nurtures and promotes innovations, creative thinking and leadership.

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## Mission of the Department

- ✦ To Provide quality education, to meet the changing needs of industry.
- ✦ To provide theoretical knowledge and hands-on experience through the classroom and laboratory sessions.
- ✦ To develop quest for research in the field of Chemical Engineering.
- ✦ To produce morally, ethically and socially responsible chemical engineering graduates.

## Salient features of the Department

- ✦ State of art laboratories.
- ✦ Qualified and experienced faculty.
- ✦ Very effective teaching-learning process.
- ✦ Consistently good results.
- ✦ Consistently increasing placements.

## Program Specific Objectives (PSOs)

- ✦ The student will demonstrate knowledge of various concepts by formulating and solving problems in advanced courses in chemical engineering.
- ✦ The student will show an ability to design experiments and analyze and interpret data which will enable them to be enterprising professionals.



## From the HoD's Desk



Department of Chemical Engineering offers platform for students from the Konkan region to develop a career in various fields of chemical engineering. It continues to be the prime seat of chemical engineering education in the entire Konkan belt of Maharashtra. Many of our alumni are placed in various renowned industries while many of them are pursuing their higher studies. The department has developed a very strong association with its alumni and is always seeking feedback from them. The department also looks forward to the feedback of other stakeholders so that better policies can be implemented in the department for all-round progress of its students.

Thank You

Dr. N. G. Kanse  
Head, Associate Professor

## From the Editor's Desk



Dear Readers,  
रसायनत्रिकी has been serving as a platform where all of the departmental activities conducted during the semester are summarized. The newsletter also covers departmental news and achievement of faculty and students during the semester. It gives me immense pleasure to invite you to submit your articles for रसायनत्रिकी.

Regards

Prof. A. K. Bandsode,  
Assistant Professor

Just as the arts of tanning and dyeing were practiced long before the scientific principles upon which they depend were known, so also the practice of Chemical Engineering preceded any analysis or exposition of the principles upon which such practice is based."

– William H. Walker

## News and Events

### A Seminar on "Career Opportunities after Engineering in Oil & Gas Industry"

The Department of Chemical Engineering organized a Seminar on "Career Opportunities after Engineering in Oil & Gas Industry" on 14 th February 2024. Mr. Gautam Wayse, MD, Sepadu Tech Pvt Ltd, was invited to interact with Third Year and Final Year Chemical Engineering students, with an objective of awareness about roles and responsibilities of a chemical engineer and future scope in Oil & Gas Industry.

The seminar was arranged in collaboration with the Association of Chemical Engineering Students (ACES) and began in the presence of Head of the Department, Dr. Nitin Kanse and Prof. S. B. Bobde. Mr. Gautam Wayse shared the nature of Oil and Gas industry and career opportunities to chemical engineers in this field. He also shared about the competencies required by an undergraduate chemical engineer and how to capitalize on technical skills to excel in this field. Final year Chemical

Engineering students coordinated the event successfully. Ms. Samiya Shivkar hosted the program, and all faculty members of the Chemical Engineering Department were present for the seminar. The seminar was attended by 29 students which was coordinated successfully by Prof. S. B. Bobde.



Mr. Gautam Wayse during his talk

## News and Events

### ACES Organized 'Utsav-e-Rasayan 2K24'

Department of Chemical Engineering in collaboration with Association of Chemical Engineering Students [ACES] organized 'Utsav-e-Rasayan 2K24' at the Finolex Academy of Management & Technology on 19<sup>th</sup> and 20<sup>th</sup> January 2024

**Dr Kaushal Prasad**, Principal FAMT, **Dr. Nitin G. Kanse**, Head of Chemical Engg. Dept and **Prof. R. K. Marag**, ACES Faculty Advisor inaugurated the function. The objective of events organized under 'Utsav-e-Rasayan 2K24' was to provide a common platform for the students to showcase their skills and to explore their ideas and make it feasible in real life. It also helps to inculcate technical knowledge among students and enhance their interest in academic and extracurricular activities

ACES successfully organized the events under the ACES Head **Mr. Nilesh Gurav**, Ladies Representative **Ms. Samiya Shivkar** and student coordinators of various committees and made the event a grand success. The events were organized under the theme 'Utsav-e-Rasayan 2K24' were Science Project Exhibition, Paper Presentation, Movie Making, Mobile Gaming, Chem-Hunt, and Cards Tower. All these events received overwhelming responses from FAMT students and nearby school and college student



**Dr Kaushal Prasad**, Principal FAMT, **Dr. Nitin G. Kanse**, Head of Chemical Engg. Dept and **Prof. R. K. Marag**, ACES Faculty Advisor inaugurating the 'Utsav-e-Rasayan 2K24'

## News and Events

### ACES Organized 'Utsav-e-Rasayan 2K24'



**Dr. Nitin G. Kanse**, Head of Chemical Engg. Dept and **Prof. R. K. Marag**, ACES Faculty Advisor along with ACES student coordinators



**Faculty members evaluating the Project Exhibition Event**

## Scope of Chemical Engineering

Chemical Engineering is a broad and versatile field that combines principles of chemistry, physics, mathematics, biology, and economics to efficiently use, produce, design, transport, and transform energy and materials. Here are some key areas and career opportunities within the scope of chemical engineering:

### 1. Process Design and Development:

- Designing processes for large-scale manufacturing, ensuring the processes are safe, efficient, and environmentally friendly.
- Developing new processes or improving existing ones for the production of chemicals, fuels, pharmaceuticals, and other products.

### 2. Research and Development (R&D):

- Conducting research to develop new materials and products, such as polymers, nanomaterials, and biotechnology products.
- Innovating in areas like renewable energy, water treatment, and sustainable development.

### 3. Production and Manufacturing:

- Overseeing the operation of chemical plants and ensuring that processes run smoothly and efficiently.
- Implementing and managing production schedules, quality control, and troubleshooting production issues.

### 4. Environmental Engineering:

- Developing technologies and processes to minimize waste and reduce the environmental impact of chemical manufacturing.
- Working on water and air pollution control, waste management, and sustainable resource management.

### 5. Energy Sector:

- Working on the production of energy from traditional and renewable sources, including oil and gas, biofuels, and solar and wind energy.
- Developing and optimizing processes for energy storage and conversion.

### 6. Pharmaceuticals and Biotechnology:

- Designing processes for the production of pharmaceuticals, including drug formulation, production, and quality control.
- Working in biotechnology to develop products like biopharmaceuticals, biofuels, and genetically engineered materials.

### 7. Materials Science:

- Developing and producing new materials with specific properties for various applications, including composites, ceramics, and electronic materials.
- Conducting research on material properties and applications.

### 8. Safety and Risk Management:

- Ensuring that chemical processes and products meet safety standards and regulations.
- Developing risk assessment and management strategies to prevent accidents and incidents in chemical plants.

### 9. Consulting and Project Management:

- Providing expertise to companies on process optimization, environmental compliance, and safety management.
- Managing projects from conception through to implementation and operation.

### 10. Academia and Education:

- Teaching and conducting research at universities and research institutions.
- Contributing to the advancement of chemical engineering knowledge and training the next generation of engineers.

## Career Opportunities

1. Chemical Engineer
2. Process Engineer
3. Production Engineer
4. Environmental Engineer
5. R&D Scientist
6. Materials Engineer
7. Pharmaceutical Engineer
8. Project Manager
9. Quality Control Engineer
10. Safety Engineer

**Chemical engineering** offers diverse and dynamic career opportunities, with the potential to impact various aspects of modern life and address global challenges such as sustainability, health, and energy.