AISSMS
COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade

CHEMIXIR NEWSLETTER

Principal: Dr. D. S. Bormane **June 2022 to Nov 2022** **Head of Dept: Dr. M. Y. Naniwadekar**

Month of Release Dec 2022

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

3. To strengthen industry-institute interaction to develop **industry oriented attributes** like attitude, soft skills, team work and leadership

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)

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

Dr. D. S. Bormane

From Principal's Desk…

It is a matter of great pride and satisfaction for AISSMS COLLEGE OF ENGINEERING to bring out the News Letter 'CHEMIXIR' Released from the Department of Chemical Engineering. The College has made tremendous progress in all areas of academic, non-academic, and capacity-building relevant to staff and students. I am confident that this issue of the Department News Letter will send a positive signal to the staff, students and the person who are interested in Technical education and Technology based activities. A News Letter is like a mirror that reflects the clear picture of all sorts of activities undertaken by a Department and develops writing skills among students in particular and teaching faculty in general my heartfelt Congratulations to staff members and Students for their fruitful effort. With Best Wishes.

Dr. M. Y .Naniwadekar

From HOD's Desk…

Department of Chemical Engineering was established in the year 1996, with an intake capacity of 40 students for UG which was increased to 60 students in 1997. The PG program was started in 2011 with an intake of 18 students. 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 the last three years and motivating the students to be involved in extracurricular and co-curricular activities like paper presentations and project competitions leading towards all-around development of our students. The Department has well-equipped laboratories with sophisticated equipment. We have organized many workshops and seminars for the students and staff.

From the Editor's Desk….

It gives us great pleasure to hand over to you "CHEMIXIR" the newsletter of the Chemical Engineering department. The department has 18 staff members and more than 180 students. All of us are involved in number of activities and working for development of the department. The Newsletter is a common platform to showcase the talents of the department. 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 department, various industry visits carried out, competitions organized, achievements and participation by students and staff. We hope this newsletter will help 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

Chemixir, Chemical Department Newsletter

Editorial Board

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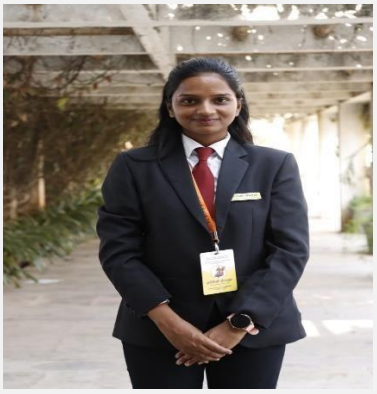
Mr. P. S. Tadkar



Ms. Siddhali Shegar

Mr. Kanak R. Oswal

The boundaries separating art and engineering are mere constructs of our imagination. Therefore, refrain from overthinking, as it stifles creativity. Instead, take action and strive for the optimal outcome without hesitation.

Faculty Achievements:

		Term One
S N	Name of Faculty	Awards & Recognition
1	Prof. P. M. Warke	Obtained financial help of Rs. 42500/- for two needy students of BE Chemical via Industry- Institute Interaction.
2	Prof. P. M. Warke	Mentor 'Standards' Club, AISSMS COE, Pune & Prof. (Mrs.) M. P. Shah, Faculty Coordinator organized a Competition on 'Presentation on Standards' on 18th October 2023. Bureau of Indian Standards (BIS) provided funds of Rs. 54992/-.

		Term Two
SN	Name of Faculty	**Awards and recognition**
1	Prof. P. M. Warke	He took the initiative & efforts regarding Campus Recruitment Drive by different Companies and placed 77 Students from BE (2022-23)

Students Achievements

Term I & II

Competition on ‘‘Presentation on Standards’ on 18/10/2023

1) 1st Prize of Rs.9000/- (Team: Aniket Patil, Yash Ladkat, Sanket Rokade and Sandesh Rasale, Class: BE Chemical)

2) 2nd Prize of Rs.6000/- (Team: Mayur Tandalekar, Apurva Shelar, Rajashree Daware and Sandesh Rathod, Class: TE Chemical)

3) Himanshu Lanke

List of Clubs and Student Chapters-

- IIChE (Indian Institute of Chemical Engineers) -

Faculty Coordinator- Prof. K. N. Bawankar

Student Coordinator- Mr. Yash Ladkat

- AIChE (American Institute of Chemical Engineers) -

Faculty Coordinator- Prof. P. S. Tadkar

Student Coordinator- Mr. Kanak Oswal,

Mr. Pritesh Gole &

Ms. Shrutee Borhade.

- BIS (Bureau of Indian Standards) - Faculty Coordinator- Prof. P.M. Warke

Student Coordinator- Ms. Tanvi Naik

- IEI (Institute of Engineers India) -

Faculty Coordinator- Dr. A.S. Jadhav

ACTIVITIES ORGANIZED

Presentation on Standards

CHEMIXER 2023-24

Industrial Visit

Water and water waste management plant

Value-added Courses

Water and water waste management course (Certification Course)-
Recommended by SPPU.

Duration- 1.5 month **Benefits**

-

knowledge, skills, and competencies required for success in the operation of water treatment plants.

Formal certification to operatives in this area.

Detail Study about Processes of Water Treatment Plant (WTP, ETP, STP and RO).

Aim - to develop professionals in the area of water and wastewater management and to acquaint students with its practical applications. Staff members have received training from the University of Stuttgart, Germany.

Activities-

Corporate Training

Internship

Job opportunities

Public awareness sessions.

Visit to water treatment plant

Another course- Domestic RO Water Purifier Training" which aims to provide in-depth knowledge about Domestic, Industrial and Commercial RO.

Inter Department Sports & Shivanjali

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.

- **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.