



AISSMS
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Accredited by NAAC with "A+" Grade



CHEMIXIR NEWSLETTER

Principal: Dr. D. S. Bormane

June 2023 to Nov 2023

Head of Dept: Dr. M. Y. Naniwadekar

Month of Release: Dec 2023

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

Published at: Department of Chemical Engg, All India Shri Shivaji Memorial
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Prof. Ms. P.S. Tadkar



Ms. Sfurti Kaduskar



Mr. Yogeshwar Ingale



Mr. Kumar Gome

Department of Chemical Engineering- ET 2023

A brief inaugural ceremony of Engineering Today - 2023 "CHEMIXIR" was performed in the Department of Chemical Engineering in presence of HOD Dr. M. Y. Naniwadekar, Dept. ET coordinator Dr. M. Baingne, and other faculty members on 14th September 2023 at 11:00 AM. The events "War of Titrants" and "Radium Cricket" were started on Day-1 (i.e. 14th September 2023). The event "Shark Tank" was organized on Day-2. A glimpse of the inaugural

ceremony is presented here:



Inauguration of event: War of Titrants



Inauguration of event: Radium Cricket

Live Memorandum of Understanding (MOU)

TOTAL FUNCTIONAL / LIVE MOU INITIATED BY THE DEPARTMENT

Sl.No.	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage	Actual activities under each MOU
1	Super Aqua Services, Pune	14-08-2023	3 years	Placement and Internship in WTP and STP
2	Celestial Institute of Technology, Pune	08-06-2023	3 years	Interaction regarding Waste water treatment
3	Deccan Environmental Consultants Pvt Ltd Pune	11-05-2022	1year	Internship , Expert lectures
4	Apprtrain Systems, (Corporate Trainers) Vadodara (Gujarat)	11-05-2022	2 years	Expert Lectures, Assistance for Placement and Internship
5	Chemtrol Industries, Gujarat	11-05-2022	1 year	Placement and Internship
6	Bureau of Indian Standards, Pune Branch Office	04-05-2022	2 years	Acivities under 'Standards' Club
7	SARBI Petroleum and Chemicals Pvt Ltd. Mumbai	23-03-2022	2 years	Expert Lectures

8	TKT Consultant , Pune	23-01-2022	1 year	Expert Lectures, MOU
9	Reva Process Technology, Baner, Pune	19-01-2021	10 years	Expert Lectures, MOU
10	Techpert Process Industries, Wakad, Pune	09-01-2020	2 years	Placement, MOU and Industrial Training to students
11	Fluid Technics, Kothrud, Pune	01-01-2020	2 years	Placement, MOU
12	Marcuras Water Treatment India Pvt. Ltd., MIDC, Bhosari, Pune	30-12-2019	2 years	Placement, Industrial Training to students, MOU and Industrial Visit
13	Synergy Process Systems, Baner, Pune	30-12-2019	2 years	Placement, Expert Lectures, Resource Person, Industrial Training to Students and Faculty Members, MOU, Industry Institute Interaction Program and Short Term Course proposal
14	Indian Biodiesel Corporation, Baramati, Dist. Pune	11-10-2016	10 years	Project work, Internship

Expert Lectures Organized: AY 2023-2024 (Term -I)

Sr. No.	Name of Speaker	Name of Company	Date of lecture	Topic
1	Mr. Anup Jangid	Manufacturing investigation Engineer at Pharma company	23-07-2023	Functioning of ANFD in downstream processes of chemical industries
2	Adv. Jaymala Naik	Freelancer at Kirloskar Group, Pune	29-08-2023	IPR-Story of Seven Sisters
3	Karuna Leo	Certified International Trainer & Coach	07-10-2023	Empowering Engineers: Navigating Life After College with Confidence
4.	Dr. Madhulika Sahoo	Social and Cultural Anthropologist, Kalahandi University, Odisha	16-10-2023	Technology can Gender Us!
5.	Mrs. Pooja Malpani	Sr. Engineer, Worley India, Pvt. Ltd., Mumbai	31-10-2023	Pump Hydraulics
6.	Dr. Swapnil Bargole	Deputy Manager, Deepak Nitrate	05-11-2023	Process Development and Intensification

List of Industrial Visits organized during A. Y. (2023-24)

Sr. No.	Name of the Industry	Faculty Coordinator	Class	Date
1	Indian Biodiesel Corporation (IBC), Baramati, Dist. Pune	Mr. P M Warke	BE Chemical	28/08/2023
2	Centre for Materials for Electronics Technology (C-MET), Pashan, Pune-8	Dr. P D Baviskar	SE Chemical	03/11/2023



Center fo Materials For Electronics Technology (C-MET), Pashan, Pune-8

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.