



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



The newsletter of Department of Chemical Engineering

CHEMIXIR

December , 2021 to May , 2022

Month Of Release : June 2022

Principal: Dr.D.S.Bormane

Head of Dept.: Dr. P.N Dange

Editor: Prof.P.S.Tadkar

Editorial Board

Chief Editor:

Dr.D.S.Bormane

Editors:

Dr P. N. Dange

Prof.P.S.Tadkar

Student Members:

Mr. Gole Pritesh

Mr. Lanke Himanshu

Mr. Patil Chetan

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.

Published at:

Department of Chemical Engg,
All India Shri Shivaji Memorial
Society's College Of
Engineering , Pune - 411001

www.aissmscoe.com

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.



**STRUGGLE TODAY
FOR A BETTER TOMORROW,
HARD WORK PAYS
YOU SHOULD ALWAYS KNOW.
NO MATTER HOW TOUGH
MAY SEEM THE CLIMB
KEEP MOVING, KEEP FIGHTING
ONE WIN AT A TIME.
PERSEVERANCE AND PATIENCE
GO A LONG WAY,
BECAUSE FOR THE SUNRISE, EVEN
THE LONGEST NIGHT MAKE WAY...**

SEMINARS/ WORKSHOPS/ WEBINARS ORGANIZED BY THE DEPARTMENT

S N	Name of Coordinator/s	Title of the Seminar/Webinar	Duration/ Dates	No. of Participants
1.	Dr A S Jadhav	Energy Conservation In Oil and Gas Industries	22/04/2022	100
2.	Dr M Y Naniwadekar	Role of Economics on Selection of Technology	16/03/2022	40
3	H L Kamble	Application of Mass Transfer in Chemical and Allied Industries	16/05/2022	52
4	Mr P. M. Warke	International Webinar ‘Career Opportunities in Chemical Engineering and Role of Chemical Engineers in Industries’	One day 12/03/2022	53
5	Mr P. M. Warke	Seminar ‘Introduction to Chemical Plant Operation’	One day 04/03/2022	84
6	Mr P. M. Warke	Seminar ‘Corporate Ready’	One day 24/04/2022	114
7	Mr P. M. Warke	Seminar on ‘Separation Technologies in Water and Wastewater Treatment’	One day 05/04/2022	14
8	Mr P. M. Warke	Seminar on ‘Dress to Success :How to build your desired image and brand’	One day/ 06/04/2022	109
9	Mr P. M. Warke	Seminar on ‘Introduction of BIS and Standards’	One day 19/04/2022	92
10	Mr P. M. Warke	Seminar on ‘‘Manufacturing of Rubber Chemicals and applications’	One day 20/05/2022	09
11	Mr P S Tadkar	CFD Modelling of Stirred Tank Reactors	One Day 07/05/2022	107

STUDENTS’ CHAPTERS/CLUBS

Sr. No	Name of Students’ Chapter	Number of Student Members
1	AICHE	70
2	IEI	35
3	IICHE	22

STUDENTS' ACHIEVMENT

Name of Student	Details of Achievement (State/University/ National/International Level)
Pranav R. Pawar	E-Conference on “Advanced Materials in Innovative Technology”, Milliya Arts, Science & Management Science College, Beed, on 11/01/2022
Krunal Raut	Attended the webinar on “Role of Economics in the Selection of Technology” conducted by IICHe students chapter, AISSMSCOE, Pune on 16/03/2022
Vaibhav Shirsat	Certificate of Merit awarded by Shivanjali-2022, AISSMSCOE, Pune on 13/05/2022 for securing 7 th rank in SPPU
AniketPatil	Participated in “National Level Poetry and Article Competition” on the life of “Swami Vivekananda and RajmataJijau” on 21/01/2022
AniketPatil	Participated in “Indian Army Day Quiz” organized by ISTE Students’ Chapter, AISSMS COE on 15/01/2022
Omkar Chafekar	Attended a national level Webinar on ‘Symbol of Knowledge- My Constitution My pride’
Akshay Gadekar	Attended a national level Webinar on ‘Symbol of Knowledge- My Constitution My pride’
Sudeep Dhamdhare	Attended a national level Webinar on ‘Symbol of Knowledge- My Constitution My pride’
-	Attended a national level Webinar on ‘Symbol of Knowledge- My Constitution My pride’
Vipul Sonawane	Participated in Majhi Vasundhara Mitra

“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

students achievement

Name of Student

Details of Achievement

(State/University/ National/International Level)

Pranav Pawar	GATE 2022 qualified
Vaibhav Shirshat	GATE 2022 qualified
Dhanjay Kumar Singh	GATE 2022 qualified
Suyog Choudhari	Donal F Othmer Sophomer Academic Excellence Award
Nupoor Upadhye Suyog Choudhari	Runner ups in the Student Technical presentation Competition - AIChE Student Regional Conference 2021
Nupoor Upadhye Suyog Choudhari	National level Chemical Engineering Students Conference Prakalp 2021, held at MAE Alandi Pune on September 11, 2021
Darshan Desadla	AIChE Freshman Recognition Award

Class Rank

Sr No	Name of Student	Year (FE/SE/TE/BE)	Percentage	Class Rank
1	PatilAniketJivan	SE	9.32	1
2	Sable SanketSampat	SE	9.09	2
3	LadkatYashJitendra	SE	9	3
4	KaduManishaRaju	SE	8.95	4
5	AnarsePravin Santosh	SE	8.93	5
6	ChoudhariSuyog Dinesh	TE	10	1
7	SayyadAmanGulab	TE	9.93	2
8	YadavSanskarDharmendra	TE	9.93	2
9	WaghmodeRutikBalu	TE	9.83	3
10	DesadlaDarshan Rajesh	TE	9.79	4
11	ParabMihirGirish	TE	9.79	4
12	Shaikh FizaAshpak	TE	9.79	4
13	DeokarShubhamSubhash	TE	9.74	5
14	BeldarUmeshPurushottam	BE	10	1
15	ShirsathVaibhav Sanjay	BE	10	2
16	BorhadeHrutujaNivrutti	BE	10	3
17	Pedamkar Siddhi Vikas	BE	10	3
18	Pratik BhaskarChavan	BE	10	3
19	YadavVishwajeet Bharat	BE	10	3
20	GhadlePratikshaPravin	BE	10	4
21	UpadhyeNupoor Ajay	BE	10	4
22	CharbiwalaMurtuza Mohammad	BE	10	5
23	Sayyad Salman Sayyadjilani	BE	10	5

Industrial Visit

Sr. No.	Name of the Industry	Class	Date of Visit
1	Everest Pipes Pvt. Ltd., MIDC Jalgaon	SE/TE/BE	11/03/2022 Attended Online by : (90) students
2	Maharani Innovative Paints Pvt. Ltd., Faridabad	SE/TE/BE	25/04/2022 Attended Online by : (227) students
3	Mapro Pvt. Ltd., Wai, Dist. Satara	Staff Members	17/03/2022 (08)
4	Mapro Pvt. Ltd., Wai, Dist. Satara	SE & BE	11/04/2022 (103)
5	Katraj Dairy Co-Op. Ltd., Pune	SE	20/04/2022 (57)
6	Pilot Plant Visit at Talwade MIDC	Faculty Members and students of TE, BE	04/03/2022 (11)
7	Vanaaz Engineers Ltd., Pune	Members of 'Standards' Club- Chemical and Mechanical	13/04/2022 (30)
8	Clean Science and Technology Ltd., Kurkumbh MIDC	TE	20/04/2022 (41)
9	Darshan Chemicals, MIDC Ambarnath	BE	09/05/2022 (35)
10	PCMC WTP, Nigadi	SE	17/05/2022 (54)
11	Mojj Engineering Systems Ltd., MIDC Bhosari	BE	18/05/2022 (34)

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) 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.
- **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.