



PRAVARA RURAL EDUCATION SOCIETY
PRAVARA RURAL ENGINEERING COLLEGE
LONI

Chemical Engineering Department

ChemNews

Chemical Engineering Newsletter (Issue Jan to June 2024)

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2024

(Issue Jan to June 2024)
(Vol-V, Issue-2)

Published by: Chemical EngineeringStudents
Association (ChESA)

Vision of Institute

"Enrich the youth with skills and values to enable them to contribute in the development of society: nationally and globally."

Mission of Institute

To provide quality technical education through effective teaching-learning and research to foster the youth with skills and values to make them capable of delivering significant contribution in local to global development.

Vision of Chemical Engineering Department

The Department is committed to provide quality technical education to students in the field of Chemical engineering to meet the global expectations of industry and society.

Mission of Chemical Engineering Department

To prepare the students to hold authority in Chemical Engineering, pursue their education through advanced study & endow to the betterment of society.

Program Education Objectives (PEOs)

- To impart strong knowledge of fundamentals to the students so that they can be good practicing engineers.
- To teach student basic concepts, knowledge through experimentation, scientific literature & prediction of system behaviour by models & simulations.
- To develop overall personality, inculcate team spirit & capability of shouldering responsibility of nation building.

Editorial Board

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Dr. Sunil A. Misal

Professor and Head, Chemical Engineering Department, PREC, Loni

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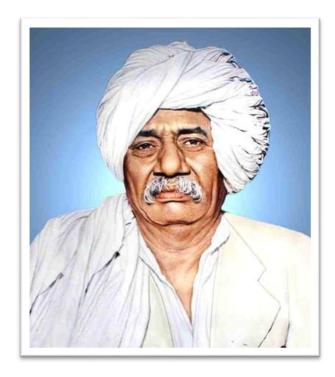
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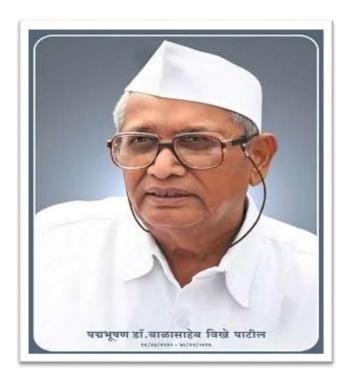
Mr. Vishal Patil

Students Cordinator

The Founder Our Inspiration



Late Padmashree Dr. Vitthalrao Vikhe Patil (1901-1980)



Late Dr. Balasaheb Vikhe Patil (PadmabhushanAwardee) (1932-2016)

Our Motivator



Hon'ble Namdar Shri. Radhakrishna Vikhe Patil Chairman, Pravara Rural Education Society, Pravaranagar Minister of Revenue, Animal Husbandry and Dairy Development, Government of Maharashtra.

The Principal's Message



I am profoundly happy that the Department of Chemical Engineering release the *ChemNews*-Newsletter for academic year 2023-24 from Jan 2024 to June 2024 issue enumerating the various activities and achievements of our faculty and students. A News Letter is like a mirror which reflect the clear picture of all activities undertaken by a department.

The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and overall personality. I trust that we face the challenges with full steam and vigour so that our students, the engineers of tomorrow, have a strong presence in the world of chemical engineering.

I proudly say that this News Letter gives the motivations among all the faculty and students. I appreciate the Department of Chemical Engineering for releasing *ChemNews*- Newsletter of Department of Chemical Engineering for academic year 2023-24 from Jan 2024 to June 2024 issue.

Dr. S. M. Gulhane Principal, PREC, Loni

HOD's Message



It gives me an immense pleasure to release the **"ChemNews"** Newsletter of Department of Chemical Engineering for academic year 2023-24 Semester I enumerating the various activities and achievements of our faculty and students.

The department endeavours to produce good practicing engineers capable of delivering significant contribution in local to global development. The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and overall personality, inculcate team spirit & capability of shouldering responsibility of nation building.

I, as a head of the department would like to thank all the faculty members, non-teaching staffs and students of Chemical Engineering for their continuous support and sincere efforts for the betterment and development of department.

On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

Dr. Sunil A. Misal,

Professor and Head, Chemical Engineering Department PREC, Loni.

Result of Examination (2023-24)

(May 2024) (SEM - II)

SE Chemical Result Analysis

First Class With Distinction	13	
First Class	05	
Higher Second Class	01	
Second Class	05	
Pass Class	-	
% Result	51.56	

First Three Rankers

Sr.	Name of Students	SGPA
No		(Credit Pattern)
01	Sable Mayure Sanjay	8.84
02	Kadu Sayali Sanjay	8.77
03	Cholke Nilesh Arun	8.66

TE Chemical Result Analysis

FIRST CLASS WITH	19
DISTINCTION	
FIRST CLASS	03
HIGHER SECOND CLASS	01
SECOND CLASS	01
PASS CLASS	-
% RESULT	95.23

First Three Rankers

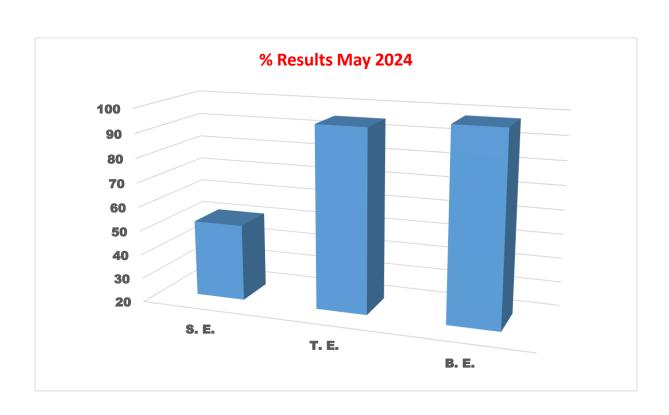
Sr. No	Name of Students	SGPA (Credit Pattern)
		(Credit Pattern)
01	Bagade Pratiksha Laxman	9.43
02	Navale Tushar D.	9.19
03	Mali Shubham Dilip	9.14

BE Chemical Result Analysis

FIRST CLASS WITH	45
DISTINCTION	
FIRST CLASS	12
HIGHER SECOND CLASS	-
SECOND CLASS	•
PASS CLASS	
% RESULT	98.28

First Three Rankers

Sr. No	Name of Students	SGPA (Credit Pattern)
01	Chaudhari Vaishnavi Y.	9.46
02	Patil Vishal Sanjay	9.06
03	Shaikh Sarfaraz D.	9.05



List of MOU's

The Chemical Engineering Department having signed MOU with the industry for the purpose of an expert lectures, industrial visits, students and faculty training, research project and students placement. The following 02 MOU with the industry were done in this semester.

Sr No	Name of Industry /Institute	Period of MOU
1	Adichem Technology Pvt. Ltd., Nashik.	15/01/2024 to 14/01/2027
2	Dhanashree Industries Pvt Ltd, Chinchpur.	01/02/2024 to 01/02/2027

Industrial Visit

SN	Name of Industry	Class	Date of Visit	No. of students	Name of accompanying faculty
1	Vinati Organic Ltd, Lote, Mahad.	S. E. Chemical Engineering	12/04/2024	26	Mr. S. B. Divate
2	Vinati Organic Ltd, Lote, Mahad.	T. E. Chemical Engineering	12/04/2024	08	Mrs. P. S. Kadu
3	Vinati Organic Ltd, Lote, Mahad.	B. E. Chemical Engineering	12/04/2024	18	Mr. Akshay Joshi

Alumini Visits

01/01/2024, Mr. Shirsath Sagar Nanasaheb, batch 2018, Production Engineer, Cipla Pvt. Ltd, Daund, kurkumbh and **Mr. Malvade Rutik Vijay,** batch 2018, Data Engineer, Quantiphi Analytics solution, Mumbai and Mr. Chande Pravin Laxman, batch 2017, Senior Executive engineer, Eternis Fine Chemical, Daund Kurkumbh.



10/01/2024, Mr. Wagh Vinod, batch 2004, Process Safety Risk Specialist, Adnoc, Abudabi and Mr. Jaswal Nilesh, batch 2004, Lead Process Engineer, USA.



03/02/2024, Mr. Ugale Rameshwar, batch 2019, Production Engineer, Cipla Ltd, Daund, kurkumbh.



24/05/2024, Mr. Dhanawate Rushikesh, alumnus batch 2018-22, Software Developer, Slite Consulting LLP, Kerala.



07/06/2024, Mr. Swarup Deshpande, alumnus 1992 batch, Associate Director, PM Group, Prestige Techno Star, Bangalore, India, **Mr. Mahendra Attarde,** alumnus 1992 batch, Department Engineer, Burns MC Donnell, Mumbai, **Mr. Jagdish Musale,** alumnus 1992 batch, Director-External Manufacturing, Navin Fluorine International Limited, Surat, Gujarat, India and **Mr. Vijay Ahire,** alumnus 1992 batch, Technical Sales Director, IDE Technologies, California.



08/06/2024, Mr. Dattatr Shinde, batch 2022, Senior Executive, Cipla Pharmaceutical Ltd., Daund, Pune.



13/06/2024, Mr. Vikas Jadhav, alumnus 2015-16 batch, Senior Engineer, Worley India Pvt. Ltd., Mumbai.

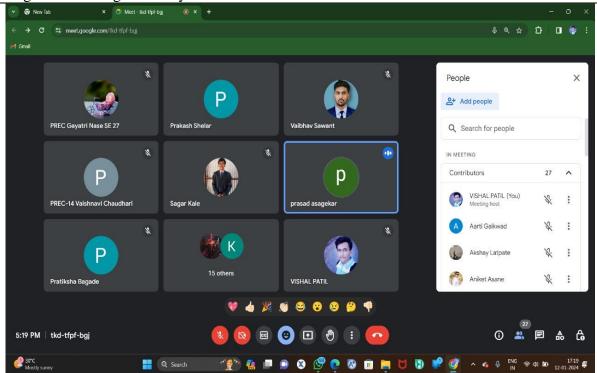


27/06/2024, Mr. Anjal Phukan, batch 2006-10, Lead process Engineer, CPECC, Dubai and **Mrs. Polymoon Borkakoty,** batch 2008-13, Senior Process Engineer, Bur Khexir Consultant, Mumbai.



Expert Lecture Conducted

12/01/2024, Mr. Prasad Asagekar, Engineer in the Process Engineering Department at TOYO Engineering LTD, Mumbai, delivered expert lecture on "Scope for Chemical Engineer in Design Industry/Sector."



12/01/2024, Mr. Prasad Asagekar, Engineer in the Process Engineering Department at TOYO Engineering LTD, Mumbai, delivered expert lecture on "Scope for Chemical Engineer in Design Industry/Sector."



17/01/2024, Mr. Anirudha Shinde, Deputy General Manager, Saurav Chemicals Ltd. Gurgaon, had given expert lecture on "Professional Ethics in Industry" and **Mr. Ganpat Sul,** Deputy General Manager, Saurav Chemicals Ltd. Gurgaon, had given expert lecture on "Finance and Management in Chemical Industry".



11/03/2024, Mr. Sharad Jape, Vice President, Mondeleze International, delivered expert lecture on "Carrier Guidance and Placement.



27/05/2024, Dr. S. R. Shirsath, HOD, Sinhgad college of Engineering, Pune, delivers expert lecture on "Professional Ethics".



Activity Conducted Under Chesa

Department of Chemical Engineering
Under IIChE Student Chapter & Chemical Engineering Student Association (ChESA)
CHEMSTORM 2K24 (AY 23-24)

18th & 19th APRIL 2024. Paper Presentation and Poster Presentation

"Chemstorm" is one of the biggest event organized everyyear by the Chemical Department of "Pravara Rural Engineering College, Loni. The National level Technical Symposium "Chemstorm 2K24", a hallmark event proudly organized under the auspicious of the Chemical Engineering Students Association, better known as ChESA. Since its inception in 1987, ChESA has been a cornerstone of our academic community, fostering innovation and community among students and faculty alike. This year, we celebrate the 23rd consecutive year of Chemstorm, an event that has grown in scope and stature since its commencement in 2002. Our journey through the years, including the seamless transition to online platforms during the pandemic, stands as a testament to our unwavering commitment to excellence and adaptability. The event was Inaugurated by the presence of Chief Guest, Dr. Shivanand Hiremath CEO of PRES Loni, Dr. Dattreya Thorat, HOD of Pharmacy College Loni, Prof. R. D. Patil, a revered faculty member from SVIT Nashik, Mr. Hemant Pulate, the dynamic Publicity Incharge of PRES, Dr. Shirish Sonawane, Prof. NIT Warangal, Dr. Rohidas Bhoi, Prof. NIT Jaipur, Dr. S. M. Gulhane Principal of PREC Loni. Events like Paper Presentation was both online/Offline mode and Poster Presentation were organized in the offline mode.



Faculty Publication in Journal

Sr. No.	Title of Paper	Name of Journal	Name of Authors	Publicati on Month & Year	Vol. Issue Pages	ISBN / ISSN
01	Application of Apophyllite and Thomsonite Natural Zeolite as modified Adsorbents for the removal of Zinc from acid mine drainage"	Chemospher e, Elsevier.	Dr. A. R. Warade	Jan. 2024	350- 141095	0045- 6535
02	Fermenter Design for Production of Ethanol from Corn"	Journal of Propulsion Technology, Elsevier (Scopus).	Mr. S. S. Sable, Dr. S. A. Misal, Mr. R. L. Nibe, Mr. R. V. Hinge, Mr. N. B. Chavan and Mr. S. B. Divate	Feb. 2024	45	1001- 4055
03	Energy-Efficient Vacuum Distillation Process for Separating Diluted Acetonitrile Water Mixture	Internationa 1 Journal of Scientific Research in Engineering and Managemen t.	Mrs. P. S. Kadu	May 2024	Vol. 08 Issue- 05.	2582- 3930
04	Extraction of Furfural from Sugar Cane Bagasse.	Journal of Emerging Technologie s and Innovative Research.	Mr. S. S. Sable	April 2025	Vol. 11, Issue- 04	2349- 5162
05	Optimization of Fluidized Bed Reactor Using Aspen Plus,	Internationa 1 Journal of Advance Research and Innovative Ideas in Education.	Dr. B. L. Pangarkar	2024	Vol. 10, Issue- 03	2395- 4396
06	UV Photo degradation and Oxidation with TiO2 for Wastewater of Steel Industry".	Journal of Technolog, Scopus.	Dr. B. L. Pangarkar and Dr. S. A. Misal	2024	Vol. 12 Issue- 05	2012 2340 7

Faculty Attended Program

S. N.	Name Of Faculty	Duration	Title of the FDP/Seminar/Workshop/STT P/Training Program	Duration
1	Dr. S. A. Misal	Professor	AI in education: Adaptive Learning & Personalization	18/12/2024 to 22/12/2024
2	Dr. S.A. Misal	Professor	Environmental Sustainable Ability Through Energy Systems	11/06/2024 to 15/06/2024
3	Dr. S. B. Magar	Associate Professor	Innovative Practices in Teaching Learning Process	19/12/2023 to 23/12/2023
4	Dr. B. L. Pangarkar	Associate Professor	Advanced Research Methodology Workshop	22/11/2023 to 30/11/2023
5	Dr. A. R. Warade	Associate Professor	AI in education: Adaptive Learning & Personalization	18/12/2023 to 22/12/2023
6	Mr. B. B. Tambe	Assistant Professor	Advanced Research Methodology Workshop	22/11/2023 to 30/11/2023
7	Mr. S. B. Divate	Assistant Professor	Advanced Research Methodology Workshop	22/11/2023 to 30/11/2023
8	Mr. S. B. Divate	Assistant Professor	Sustainable Energy Management	18/07/2023 to 22/07/2023
9	Mr. S. S. Sable	Assistant Professor	Advanced Research Methodology Workshop	22/11/2023 to 30/11/2023
10	Mr. N. B. Chavan	Assistant Professor	Advanced Research Methodology Workshop	22/11/2023 to 30/11/2023
11	Mr. R. L. Nibe	Assistant Professor	Sustainable Energy Management	18/07/2023 to 22/07/2023
12	Mr. R. V. Hinge	Assistant Professor	Sustainable Energy Management	18/07/2023 to 22/07/2023
13	Mrs. P. S. Kadu	Assistant Professor	Data Analyst	19/06/2023 to 23/06/2023
14	Mrs. P. S. Kadu	Assistant Professor	Research Methodology	24/06/2023 to 29/06/2023

Parent Teacher Interaction Meet

Department of Chemical Engineering has organized Parent Meet on **15/03/2024** at 3:00 pm for all SE, TE, and BE Classes in Online Mode.

Resource person: - Hon. Principal, HOD, TPC Coordinator, Alumni Coordinator and All Staff. Objective: - Parent Teacher Interaction. No. of Parents attended the meet: - 53

Points Discussed: -

- 1. Dr. S. A. Misal, HOD had given the detail presentation of Department.
- 2. Dr.A.R.Warade, TPO given brief idea about the requirement of Industries for the Placement of Students.
- 3. Dr. S. B. Magar, faculty member guided the parents in concern with ethics and responsibilities.



Student Internship

Industrial Internship Industry wise record Academic Year 2023-24

SN	SN Name of Company	
		Students
1	Padmashri Dr. Vitthal Rao Vikhe Patil Sahakari Sakhar	20
	Karkhana Ltd. Pravaranagar	
2	Ashok Sahakari Sakhar Karkhana Ltd Ashoknagar	4
3	Venkateshwara Speciality Fertilizar Pvt. Ltd.	2
4	Alkyl Amines Chemicals Limited	2

5	Krushna Fertilizas and Chemicals Pvt. Ltd.	2
6	Godavari Biorefinaries Pvt. Ltd. Sakharwadi	2
7	Sun Pharmaceutical Pvt. Ltd. Ahmednagar	1
8	Kusum Distillation and Refinaring Pvt. Ltd., Daund	1
9	Gopi industry Pvt. Ltd. Sarigam, Valsad, Gujrath	1
10	Sahakar Maharshi Shankarrao Kolhe Co Operative Sugar	1
	Factory Kopargaon	
11	Abhijit chemicals pvt.ltd Nashik	1
12	Viswa Laboratories Pvt. Ltd.	1
13	Loknete Marutrao Ghule Patil Dnyaneshwar Sahakari Sakhar	1
	Karkhana Ltd. Bhenda	
14	SVAAR Process Solutions Private Limited Nashik	1

List of Student Placed AY 2023-24

Heartily congratulations to the following BE Chemical students who were placed at the various industry.

SR.	Name of Student	Name of Industry	Package
NT.			
No.	Pawan Chaudhari	CYIEN	5.5
1	rawan Chaudhan	Adichem	3.0
2	Pranjal Shinde	CYIEN	5.5
2	Tranjar Simue	Sun Pharmaceutical Ltd	3.0
3	Onkar Agase	JNK India Ltd, Mumbai	3.0
4	Vaishnyi Chaudhari	Worley India Pvt Ltd	5.15
5	Saurabh Mahangare	Genesis Energy	3.5
	Sauraon Wanangare	Macleods Phamaceuticals Ltd	3.0
6	Ashwini Bhawar	Adichem	3.0
		Sun Pharmaceutical Ltd	3.0
6	Krushna Badakh	Macleods Phamaceuticals Ltd	3.0
		Calyx Chemicals and Pharma Ltd	3.0
		Gujrat Ambuja Exports Ltd, Chalisgaon	1.8
7	Tushar Lakhare	Macleods Phamaceuticals Ltd	3.0
		Complete Waste Water Solutions Ltd.	3.0
		Calyx Chemicals and Pharma Ltd	3.0
		Gujrat Ambuja Exports Ltd, Chalisgaon	1.8
8	Chaitanya Gadhave	Macleods Phamaceuticals Ltd	3.0
9	Tahir Sayyad	Macleods Phamaceuticals Ltd	3.0
10	Praful Gangurde	Macleods Phamaceuticals Ltd	3.0
11	Tushar Tipayle	Macleods Phamaceuticals Ltd	3.0
12	Sahil Belkar	Macleods Phamaceuticals Ltd	3.0
		Hindustan Gold	2.6
13	Martand Bhelke	Macleods Phamaceuticals Ltd	3.0
14	Vabhav Sawant	Macleods Phamaceuticals Ltd	3.0
15	Adinath Wani	Macleods Phamaceuticals Ltd	3.0

		Hindustan Gold	2.6
16	Sohel Deshmukh	Macleods Phamaceuticals Ltd	3.0
		Complete Waste Water Solutions Ltd.	3.0
		Epitome Industries	2.6
17	Rajkumar Gaikwad	Macleods Phamaceuticals Ltd	3.0
		Complete Waste Water Solutions Ltd.	3.0
		Epitome Industries	2.6
18	Taskar Ashutosh	Macleods Phamaceuticals Ltd	3.0
		Calyx Chemicals and Pharma Ltd	3.0
		Gujrat Ambuja Exports Ltd, Chalisgaon	1.8
19	Vishal Patil	Macleods Phamaceuticals Ltd	3.0
		Complete Waste Water Solutions Ltd.	3.0
20	Prashant Shidore	Macleods Phamaceuticals Ltd	3.0
21	Rohit Garule	Macleods Phamaceuticals Ltd	3.0
22	Darshan Pagar	Macleods Phamaceuticals Ltd	3.0
23	Sagar Kale	Macleods Phamaceuticals Ltd	3.0
24	Aarti Gaikwad	Sun Pharmaceutical Ltd.	3.0
25	Gaytari Nase	Sun Pharmaceutical Ltd.	3.0
26	Pranjal Shinde	Sun Pharmaceutical Ltd.	3.0
27	Anjali Shinde	Sun Pharmaceutical Ltd.	3.0
28	Vaibhavi Lohakare	Sun Pharmaceutical Ltd.	3.0
29	Vaibhav Sawant	Complete Waste Water Solutions Ltd.	3.0
30	Sagar Kale	Complete Waste Water Solutions Ltd.	3.0
31	Paresh Chopade	Complete Waste Water Solutions Ltd.	3.0
32	Manish Gangurde	Complete Waste Water Solutions Ltd.	3.0
33	Darshan Pagar	Complete Waste Water Solutions Ltd.	3.0
34	Anjali Shinde	Complete Waste Water Solutions Ltd.	3.0
35	Aswini Bhawar	Complete Waste Water Solutions Ltd.	3.0
36	Gayatri Nase	Complete Waste Water Solutions Ltd.	3.0
37	Gaurav Murkute	Complete Waste Water Solutions Ltd.	3.0
38	Saurabh Nirmal	Calyx Chemicals and Pharma Ltd	3.0
39	Vaibhavi Lohakare	Calyx Chemicals and Pharma Ltd	3.0
40	Aarti Gaikwad	Calyx Chemicals and Pharma Ltd	3.0
41	Gaurav Murkute	Epitome Industries	2.6
42	Omkar Kale	Epitome Industries	2.6
43	Prashant Shidore	Epitome Industries	2.6
44	Anjali Shinde	Epitome Industries	2.6
45	Harshad Hivrale	Hindustan Gold	2.6
46	Rutik Pagire	Hindustan Gold	2.6
47	Saurabh Nirmal	Gujrat Ambuja Exports Ltd, Chalisgaon	1.8

Achievement of Staff

Dr. B. L. Pangarkar, Serving as a reviewer for Journal of Chemical Technology and Biotechnology, Wiley, Science.



This certificate is awarded to

DR BHAUSAHEB PANGARKAR

for serving as a reviewer for

Journal of Chemical Technology and Biotechnology



Thank you for reviewing 1 manuscript in 2023

15 March 2024 Date Dionissios Mantzavinos Editor-In-Chief

15/03/2024, Dr. S. A. Misal has played an instrumental role executing workshop, Al for students, conducted by Al expert and IIT Delhi.



The Faculty



Program Outcomes (POs)

Programs Outcomes (POs):

Engineering Graduates will be able to:

- 1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **2**. **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.
- **3. 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.
- **4. 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.
- **5. 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.
- **6. 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.
- **7. 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.
- **8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **10. 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.
- **11. 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.
- **12. 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.

Program Specific Outcomes (PSOs)

Chemical Engineering Students are able to:

PSO1: Apply the knowledge of basic science and basic courses of the Chemical Engineering.

PSO 2: Acquire the skills of design and analysis of the Chemical process or system to meet the desired needs within the practical limits.

PSO3: Ability to use the innovative techniques, skills and modern engineering tools necessary to industry and society.

!! Best of Luck!! From

All the faculty and Students



