



PRAVARA RURAL EDUCATION SOCIETY  
PRAVARA RURAL ENGINEERING COLLEGE  
LONI

Chemical Engineering Department

# ChemNews

Chemical Engineering Newsletter  
(Issue July to Dec. 2022)

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# 2022

(Issue July to Dec. 2022)

(Vol-IV, Issue-1)

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Engineering Students  
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**

#### **Editor-in-Chief**

**Dr. Sunil A. Misal**

Professor and Head, Chemical  
Engineering Department, PREC, Loni

#### **Associate Editor**

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**Mr. Ravindra Nibe**, CHESA Co-ordinator

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**Mr. Vinod Ingale**

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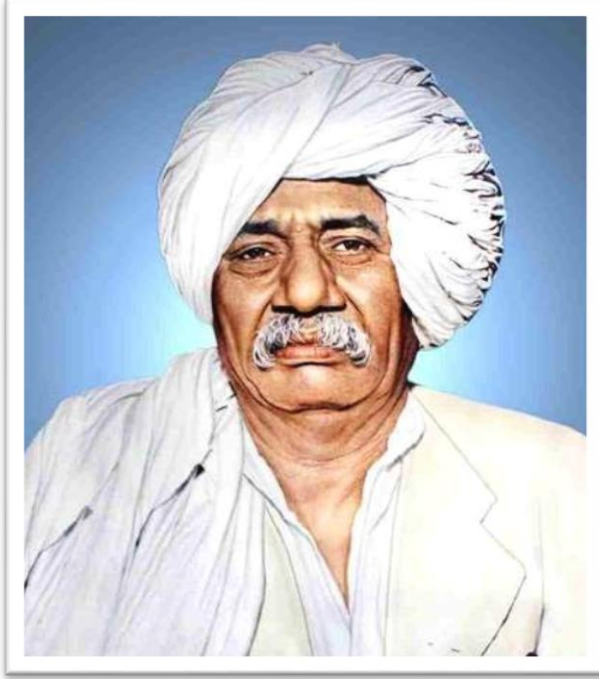
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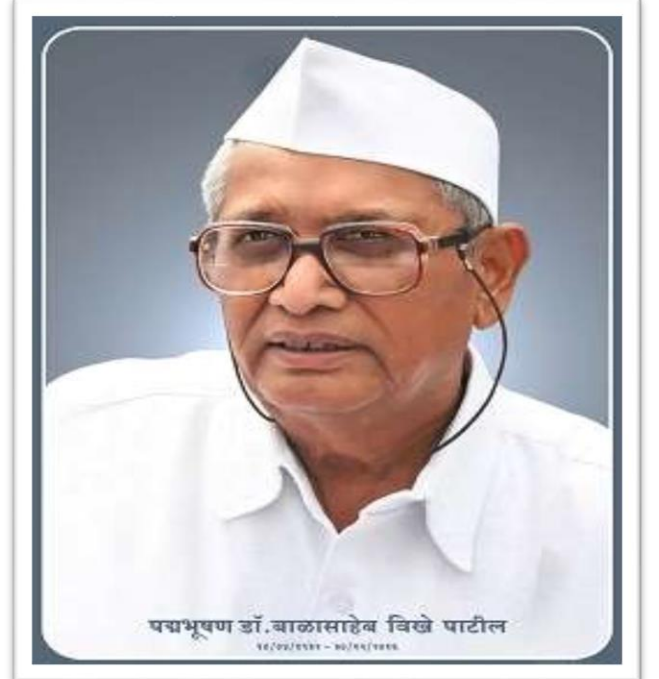
Commity Member

*The Founder*



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

*Our Inspiration*



**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



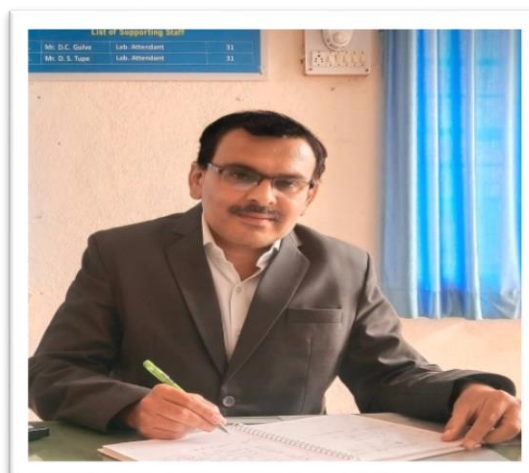
I am profoundly happy that the Department of Chemical Engineering release the *ChemNews*-Newsletter for academic year 2021-22 from July 2022 to December 2022 issue enumerating the various activities and achievements of our faculty and students. A News Letter is like a mirror which reflect the clear picture 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 2022-23 from July 2022 to December 2022 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 2022-23 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.

### 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 05 MOU with the industry were done in this semester.

Sr No	Name of Industry /Institute	Period of MOU
01	Krishna Fertilizer and chemical pvt ltd, Satara	01/08/2022-30/07/2024
02	V-Tech Enterprises, Pune	01/08/2022-31/08/2024
03	Crab & Taur Engineers Pvt. Ltd. Pune	20/09/2022-20/09/2025
04	MTL New Initiative Private Limited Silvasassa.	27/09/2022-26/09/2024
05	PILON Engineering PVT. LTD.	25/11/2022-24/11/2024

### Alumini Visits

04/11/2022,  
Alumni Visit:  
Mr. Nitin Bhor  
(Alumuns  
2014)  
Production  
Officer ,Emcure  
Pharmaceutical  
Ltd, Kurkumbh,  
Daund , Pune  
and Mr. Gokul  
Chavanke  
(Alumuns  
2014)  
Production  
Engineer,  
Emcure  
Pharmaceutical  
Ltd, Kurkumbh,  
Daund , Pune  
has visited to  
chemical  
Engineering  
Department  
and also  
deliver Expert  
lecture to BE  
Students.



25/11/2022, Alumni Visit: Mr Pratik Shinde alumnus Chemical 2017 senior Associate production, Sumitomo chemical, Boisar and Mr.Raut Siddhesh alumnus Chemical 2017, programmer analyst, Cognizant, Pune) visited to chemical engineering department.



14/12/2022, Alumni visit: Mr. Pravin Gambhir, alumnus 1996-2000 batch, Head Business Planning and Development, Pune.



30 Dec 2022, Alumni Visit: Mr. Nirbhay Singh, alumnus 2011-2017 batch, Lead Administrator Wipro Technology, Pune.



31 DEC 2022,  
Alumini Visit:  
Mr. Sushil  
Kumar Kore,  
alumnus  
2002-2006  
batch, Lead  
Consultant  
Yash  
Technologies,  
Pvt. Ltd. Pune.



### Expert/Guest Lecture

18/08/2022, Guest  
Lecture organized:  
Mr. Prashil Badwaik,  
Prime Minister  
Research Fellow,  
Department of  
chemical  
engineering, IIT-B  
delivered guest  
lecture on "Water  
and Air Pollution"  
for BE chemical  
engineering students.



03/11/2022, Alumni  
Visit: Mr. Pravin  
Gambhir Alumns  
batch 1996 head  
business planning  
and development,  
Pune.



23/12/2022,  
Expert talk: Mr.  
Amit Khanabar  
HR, Macloids  
Pharma Pvt. Ltd,  
Bhoiser,  
Mumbai.



#### ACTIVITY CONDUCTED UNDER CHESA

#### Chemical Engineering Student Association (CHESA) Event Organized Report

<b>Name of Department</b>	Chemical Engineering
<b>Name of event organized</b>	Teachers day celebration- Extra Co-curricular activity)
<b>Title of the event</b>	Teachers Day
<b>Date of event organized</b>	05/09/2022
<b>Name of the coordinator of event</b>	Mr. R.L. Nibe
<b>Class of the Participant</b>	SE, TE & BE Chemical Students and Staff
<b>No. of Participant (Student+ Staff)</b>	(80 +8) = 88
<b>Name of the Chief Guest</b>	Dr. S.A.Misal, HOD Chemical Department, PREC Loni
<b>Objective of the event</b>	Objective of celebrating such a rewarding day is that, on Teacher's Day, we get a chance to thank our teachers and tell them that how much successful we are because of their hard works in making us a true human being.
<b>Outcome of the event</b>	To understand and build the social ethics, team work, leadership, communication and life-long learning. Student gotten a skill how to organize event in very excellent very. Importance of teacher in Student life.
<b>Relevance to PO &amp; PSO</b>	PO: 6,8,9,10,11,12 PSO: 3





### Industrial Visit

SN	Name of Industry	Class	Date of Visit	No. of students	Name of accompanying faculty
1	Common Effluent Treatment Plant, Aurangabad	TE Chemical Engineering	11-11-2022	34	Prof. B.B. Tambe
2	Effluent Treatment Plant, Aurangabad	BE Chemical Engineering	11-11-2022	54	Dr. S.B. Magar

11/11/2022, Industrial Visit: Third and Final year student visited SMS Walunj CETP Pvt. Ltd.



#### Faculty Publication in Journal

Sr. No.	Title of Paper	Name of Journal	Name of Authors	Publication Month & Year	Vol. Issue Pages	ISBN/ISSN
01	4-picoline adsorption from aqueous solution by using baggage fly ash (BFA): Parametric, kinetic and thermodynamic aspects	Water Practice & Technology	B.L. Pangarkar, Prerna Shrimal, G.B. Daware, G.B. Dabhade	Nov. 2022	Vo. 17, No.11, Pg- 2386-2395	1751-231X
02	Intensification of pharmaceutical wastewater treatment	Materials Today Proceedin	A.R. Warade, G.B. Shinde, R.W. Gaikwad,	Dec. 2022	Accepted	2214-7853

	using hydrodynamic cavitation process	gs (Elsevier)	V.S. Hakke, S.H. Sonawane, A. Lingayat			
03	Synthesis of different heteropoly acid catalysts from transesterification of bio-derived glycerol to produce oxygenated fuel additives for energy utilization	Biomass conversion and biorefinery	S.B. Magar, D.B. Pal, S.K. Jana	2022	Accepted	2190-6815

### Faculty Participation

27/08/2022, Paper Presentation at international conference by staff: Faculty Member Dr. A. R Warade presented paper in International Conference-2022 at PCCOE Pune.



## Parent Teacher Interaction Meet

Department of Chemical Engineering has organized Parent Meet on **16/09/2022** at 3:00 pm by for all SE, TE, and BE Class.

<b>Title</b>	Parent Meet
<b>Date</b>	16/09/2022 at 3:00 pm
<b>Target group</b>	Parents of all Students
<b>Resource person</b>	Hon. Principal, HOD and All Staff
<b>Objective</b>	Parent Teacher Interaction
<b>Expected Results</b>	Proper interaction , suggestions from parents,etc.
<b>No. of Parents attended the meet</b>	19



  
**LOKNETE DR. BALASAHU VIRHE PATIL**  
 (PRAVARA RURAL EDUCATION SOCIETY'S)  
**PRAVARA RURAL ENGINEERING COLLEGE**  
 LONI

**Chemical Engineering Department**

Welcome You For

**Parents -Teachers Interaction Meet**



**Date: 16th September 2022 Time: 2.30 pm**  
**Venue- Chemical Engineering Classroom**

**Organizing Committee:**  
**Dr. S.A. Misal**  
**Prof. B.B. Tambe and All the Faculty Members**  
**Chemical Engineering Department.**



### Technical Skill & Aptitude Training

S.N	Academic Year	Class	FOSS Selected for Student	No. of Students Appeared	No of Students Passed
01	2021-22	BE Chemical	Open Modelica	13	04
02	2021-22	TE Chemical	Linux	56	38
03	2021-22	SE Chemical	Libre office Suite	32	18

29/08/2022, Inauguration of Barclays Soft skill Training Program at Chemical Engg Department.



19/11/2022, Soft Skill Program Conducted: Soft skill training program for SE Chemical students.





### List of Student Placed AY 21-22

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

Sr. No.	Name of Student Placed	Name of the Employer
1	Mr. Roshan Aher	Wipro Pune
2	Mr. Abhijit Chavan	Gujrat Ambuja Exprts Pvt. Ltd Chalisgaon
3	Mr. Prashant Murade	EMOTORAD Pune
4	Miss. SanjanaTambe	Crab and Taur,Pune
5	Mr. Ajay Darkunde	Infosys,Pune
6	Mr. Rushikesh Dhanavate	Krypt, Pune
7	Mr. Rushikesh Datir	Infosys, Pune
8	Mr. Sumit Kolhe	Parason Macinary Ltd. Aurangabad
9	Mr. Patil Nikhil	Parason Macinary Ltd. Aurangabad
10	Mr. Somavansi Shrinivas	Parason Macinary Ltd. Aurangabad
11	Mr. Thorat Rushikesh	Parason Macinary Ltd. Aurangabad
12	Mr. Bhushan Chaudhari	Cipla Pharmaceutical Cipla
13	Patil Ankit	Wipro, Pune
14	Kamble Sagar	Wipro Pune
15	Mr. Rameshwar Ugale	Cipla Pharmaceutical ,Pune
16	Mr. Sagar Nale	Cipla Pharmaceutical Cipla
17	Mr. Sandesh Palghadmal	Cipla Pharmaceutical
18	Mr. Dattatray Shinde	Cipla Pharmaceutical Cipla
19	Miss. Pradnya Aptalkar	Cipla Pharmaceutical Cipla
20	Mr. Adesh Wagh	Cipla Pharmaceutical Cipla
21	Miss. Dhanashri Ingale	Cipla Pharmaceutical Cipla
22	Mr. Shivam Paymode	Alok Industries Silvassa
23	Miss. Archana Kawale	Crab and Taur Pune
24	Mr.Nikhil Patil	Infosys, Pune
25	Mr. Yuvraj Khemnar	Laxmi Organic Industries Ltd Mahad
26	Mr. Akash Pathare	Laxmi Organic Industries Ltd Mahad
27	Mr. ShubhamVetal	Alkyl Amines Ltd , Pune
28	Mr. Bhupendra Ingale	Macleods Pharama Gujrat
29	Mr. Rohit Sapte	Macleods Pharama Gujrat
30	Mr. Rushikesh Suresh Datir	Alok Industries,Silvasa
31	Mr. Rahul Salve	Laxmi Organic Industries Ltd Mahad
32	Mr. Rishikesh Waghe	Laxmi Organic Industries Ltd Mahad
33	Mr. Chaitanya Bhakare	Chembond.Pune
34	Gadade Shankar	Clean Science and Technology, Kurkumbh
35	Mr.Phapale Onkar	Embio Limited,Raigad

**21/07/2022, Subject Orientation Programme organized:** Chemical Engineering Department conducted Subject orientation Programme for A.Y 2022-23.





## The Faculty

	<p>Dr. Sunil Misal M. E., Ph. D. Professor &amp; HOD Experience: - 25 yrs.</p>		<p>Mr. Divate Sachin M. E. Assistant Professor Experience :- 13 yrs.</p>
	<p>Dr. B. L. Pangarkar M. E., Ph. D. Associate Professor Experience:- 23 yrs.</p>		<p>Dr. Preena Shrimal Assistant Professor Experience :- 1 yrs.</p>
	<p>Dr. A. R. Warade M. E., Ph. D. Associate Professor Experience:- 15 yrs.</p>		<p>Mr. Nitin Chavan M. E. Assistant Professor Experience :- 11 yr.</p>
	<p>Dr. S. B. Magar M. E., Ph. D. Associate Professor Experience:- 31 yrs.</p>		<p>Mr. S. S. Sable M. E. Assistant Professor Experience:- 2.5 yr.</p>
	<p>Mr. B. B. Tambe M. E. Assistant Professor Experience:- 17 yrs.</p>		<p>Mr. B. G. Gholap Diploma in Chemical Technical Assistant Experience :- 20 yrs.</p>
	<p>Mr. R. L. Nibe M. E. Assistant Professor Experience :- 16 yrs.</p>		<p>Mr. A. J. Antre Diploma in Chemical Technical Assistant Experience :- 17 yrs.</p>
	<p>Mr. Hinge Rahul M. E. Assistant Professor Experience :- 16 yrs.</p>		

## 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**

