



PRAVARA RURAL EDUCATION SOCIETY
PRAVARA RURAL ENGINEERING COLLEGE
LONI

Chemical Engineering Department

ChemNews

Chemical Engineering Newsletter
(Issue Jan. to June 2020)

Contents

1. Vision & Mission.....1
2. Result and Toppers Exam. May 20204
3. List of MOU's and Industrial Visits5
4. Alumni Visits5
5. Expert Lectures7
6. Activity under CHESA9
7. Faculty Publications10
8. Faculty Attended Program10
9. Student Internship12
10. The Faculty12
11. POs and PSOs.....14

2020

(Issue Jan. to June 2020)

(Vol-I, Issue-2)

**Published by: Chemical
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

Mr. Rahul Hinge
News Letter Co-ordinator.

Mr. Ravindra Nibe
CHESA Co-ordinator.

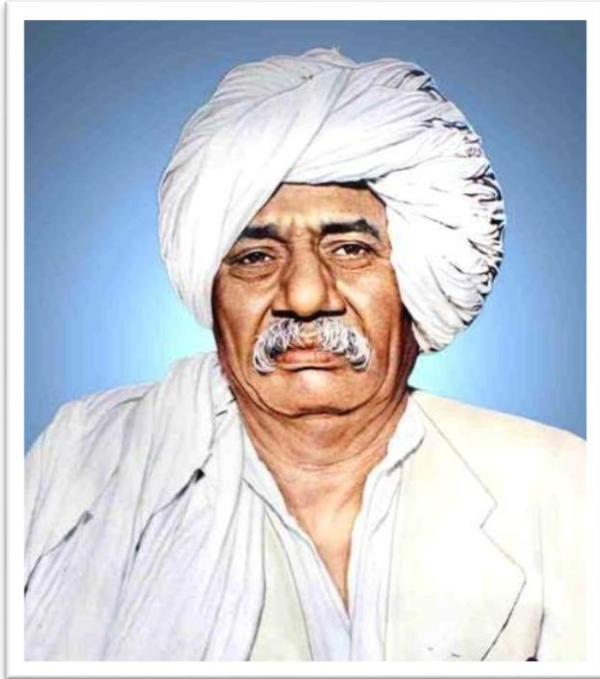
Advisory Board

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

CHESA Committee Member

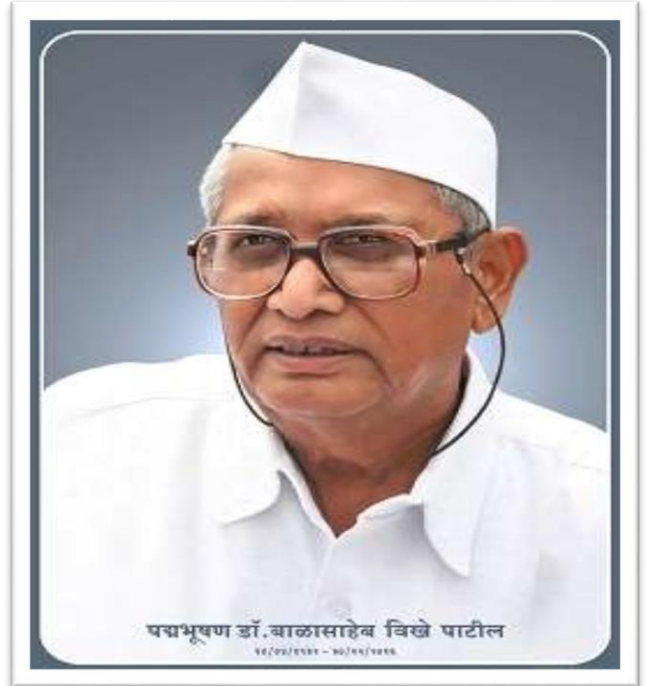
Mr. Akshay Gavhane
Mr. Avinash Badhe
Students Cordinator
Mr. Ashish Kendre
Commity Member

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
Ex. Minister of Housing of Maharashtra State.

The Principal's Message



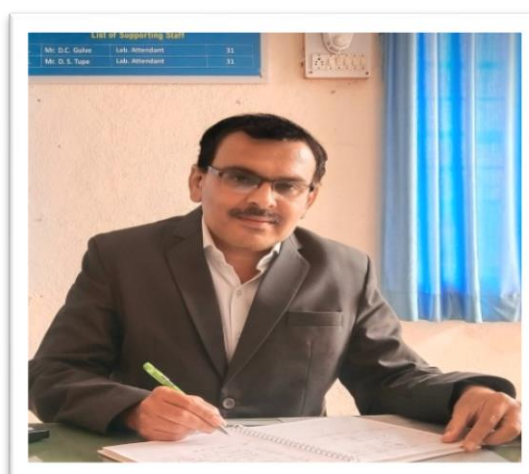
I am profoundly happy that the Department of Chemical Engineering release the *ChemNews*-Newsletter for academic year 2019-20 from Jan. 2020 to June 2020 issue enumerating the various activities and achievements of our faculty and students. A News Letter is like a mirror which reflect the clear picture 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 2019-20 from Jan. to June 2020 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 2019-20 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 and First Three Rankers (May2020)

SE Chemical Result Analysis

First Class With Distinction	30
First Class	04
Higher Second Class	-
Second Class	-
Pass Class	-
% Result	51.52

First Three Rankers

Sr. No	Name Of Students	Sgpa (Credit Pattern)
01	Somvanshi Shrinivas Suresh	9.8
02	Nale Sagar Bhanudas	9.56
03	Shinde Dattatray Nandu	9.52

TE Chemical Result Analysis

First Class With Distinction	23
First Class	20
Higher Second Class	02
Second Class	-
Pass Class	02
% Result	72.30

First Three Rankers

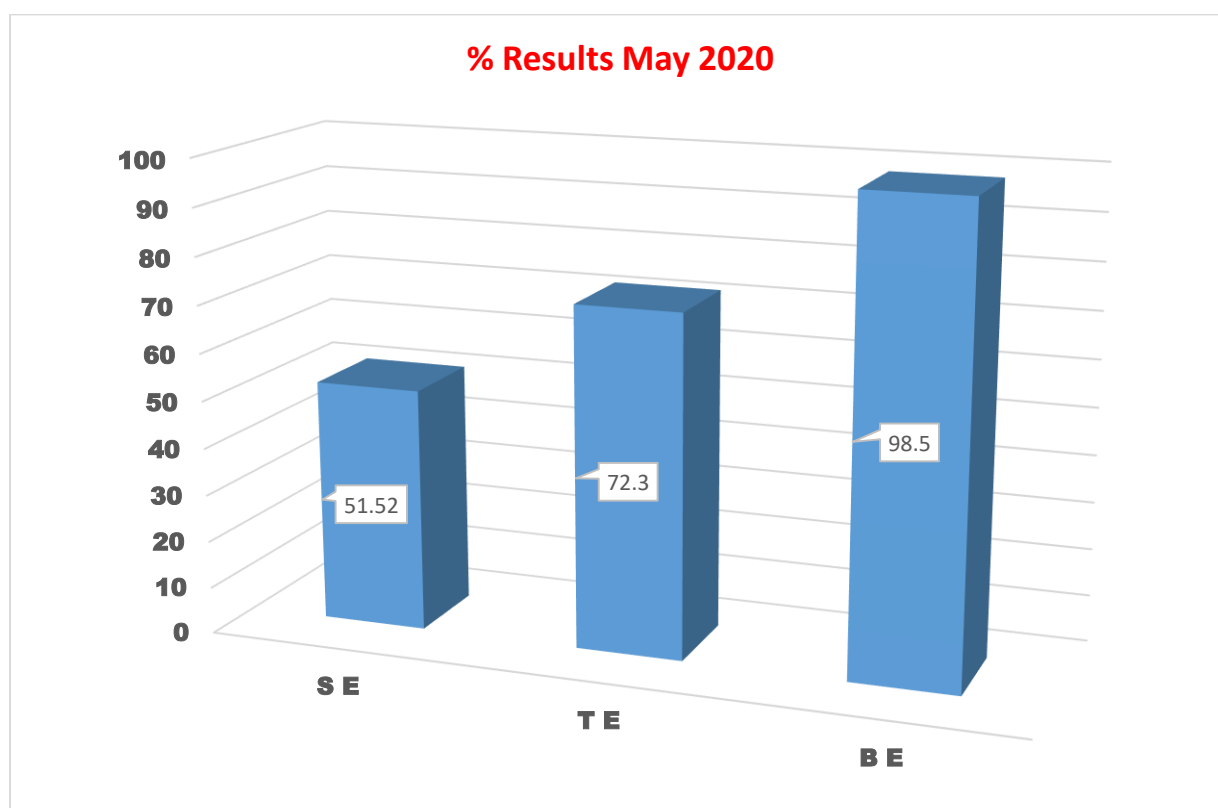
Sr. No	Name Of Students	Sgpa (Credit Pattern)
01	Khan Taufik Feroz	9.96
02	Sonawane Hemant Ravindra	8.89
03	Mahajan Shivam Vinayak	8.8

BE Chemical Result Analysis

First Class With Distinction	31
First Class	35
Higher Second Class	-
Second Class	-
Pass Class	-
% Result	98.5

First Three Rankers

Sr. No	Name Of Students	Sgpa (Credit Pattern)
01	Kalwel Balaji Bharat	9.41
02	Abhang Akshay Anant	9.32
03	Avinash Sunil Darade	9.27



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 01 MOU with the industry were done in this semester.

Sr No	Name of Industry /Institute	Period of MOU
01	Adichem Technology Pvt Ltd, Nasik	23/01/20-23/01/23

List of Industrial Visit Conducted

Sr. No	Name	Class	Date	Place	No.*	Staff
1	Pune Techtrol Pvt Ltd	TE	15-7-19	Bhosari MIDC, Pune	45	Mr.B.B.Tambe, Mr. S.B.Magar
2	Carlsberg Asia Pvt Ltd	SE	29-8-19	Walunj MIDC, Aurangabad	46	Dr. R.W. Gaikwad, Dr.A.R.Warade
3	Hexacarb Engineers Pvt Ltd	BE	4-10-19	Satpur MIDC, Nasik	50	Mr.S.R.Kadam, Mr. R. V. Hinge.

Alumini Visits 19-20

03/01/2020,
Alumni Visit:
Mr. Nimbalkar
Deepak,
alumnus 1995
batch, Manager
Marketing,
Pometon India
Pvt Ltd, Pune
visited to
department.



08 /02/2020,
Alumini visit:
Mr.Parth Rao,
Alumnus batch
1988, Director
Texas Software
Ltd. Hauston,
USA.



17 /02/2020,
Alumini visit: Mr.
Hari Ughade,
alumnus batch
2013, Process
Engineer, Laxmi
Organics Industry
Ltd, Mahad.



22 /02/2020, Alumni visit:
Mr. Goswami Sandeepan batch 2004-2008, Process Engineer, Exxon Mobil, Bangalore.



05/03/2020, Alumni visit: Mr. Akash Lahare and Mr. Kunal Baravat, alumnus 2016 batch, process engineer, MacLeod Sarigam Gujarat visited the Department.



Expert Lecture

07/01/2020, Expert Lecture by Alumni: on “Entrepreneurship Development” by Mr. Jayant Thakur, alumnus 2006 batch, Entrepreneur, perpetual services, Nashik to S.E. and T.E. students.



14/01/2020,
Expert Lecture
by Alumni: on
“properties of
materials” by
Mr. Sunil Chawla
alumnus 1993
batch, Director,
Unit Grease of
India, Delhi to
S.E. and T.E.
students.



14/01/2020,
Expert Lecture
by Alumni: on
“Process
engineering and
design” by Mr.
Dipak Dudhate
alumnus 2010
batch, process
engineer, RCF,
Mumbai to S.E.
and T.E.
students.



06/03/2020,
Expert Lecture:
Hon'ble Dr. V. S.
Sapkal on “New
Opportunities in
Chemical
Engineering” to
SE and TE
students.



ACTIVITY CONDUCTED UNDER CHESA

Pravara Tech-2k20 – Chem Coalesce 2020

Name of Department	Chemical Engineering
Title of event	Chem Coalesce 2k20
Name of event organized	Salt Act
Date of event organized	15 th Feb 2020
Name of the coordinator of event	1. Alpha Pal 2. Omkar Joshi
No. of Attended (Students)	Salt Act- 26
Objective of the event	1. To improve the Presence of mind and basic knowledge of the participants. 2. To enhance critical thinking and impart self-confidence.
Outcome of the event	1. The students have tried to improve their thinking capacity. 2. The Participants had a help in improving their Basic Knowledge.
Winners	1. Sushant Gaikwad & Shubham Chavanke (SVIT Nashik) 2. Ajinkya Pawar & Pravin Ghorpade (SVIT Nashik)



Faculty Publication in Journal

Sr. No.	Title of Paper	Name of Journal	Name of Authors	Publication Month & Year	Vol. Issue Pages	ISBN/ISSN
01	Synthesis & characterization of supported heteropoly acid: Efficient solid acid catalyst for glycerol esterification to produce biofuel additives	Inorganic & Nano-Metal Chemistry	S.B. Magar G.T. Mohanraj S.K. Jana, C.V. Rode	March 2020	Vol. 50, Issue 11, PP-1157-1165	2470-1556
02	Electrochemical Process For Effective Treatment Of Hospital Waste Water	Ecology, Environment & Conservation	N.R. Borase A R Warade	Feb. 2020	Vol. 26, PP-S151-S156	0971-765X

Faculty Attended Program

Sr. No.	Name of faculty	Date of Event	Title of the FDP/Seminar/Workshop/STT P/Training Program	Name & Place of organizer	Level
01	Dr.S.B. Magar	Jan-April 2020	NBA-Accreditation and Teaching-Learning in Engineering	IISc Bangalore	National
02	Dr.S.B. Magar	14-15 Feb.2020	Techno-Cultural Event	SVIT, Nasik	State
03	Dr.S.B. Magar	25 Feb. 2020	State Level Technical Event	Polytechnic Loni	State
04	Dr.S.B. Magar	20-May-20	Chemical Industrial safety	TKIET, Warananagar	State
05	Dr.S.B. Magar	21-23 May 2020	Sustainable development in Chemical Processes	KK Wagh Engg. College Nasik	National
06	Dr.S.B. Magar	8-9 May 2020	Process Intensification in Chemical Technology	SVIT, Nasik	National
07	Dr.S.B. Magar	6-Mar-20	Virtual Labs	IIT, Bombay	State
08	Dr.S.A.Misal	6-Mar-20	Virtual Labs	IIT, Bombay & COET Pune	State
09	Dr.S.A.Misal	17-22 June 2019	Faculty Development Program	Shivaji University Kolhapur	National
10	Dr.S.A.Misal	Jan-20	Scilab	IIT, Bombay	National
11	Dr.S.A.Misal	Jan-April 2020	NBA-Accreditation and Teaching-Learning in Engineering	IISc Bangalore	National
12	Dr.S.A.Misal	28-Sep-19	Microsoft Innovative Educator	Worldwide Education	National
13	Dr.S.A.Misal	11-16 April-2020	FDP Machine Learning	PREC Loni	National
14	Prof.B.B.Tambe	14-15 Feb.2020	Techno-Cultural Event	SVIT, Nasik	State

15	Prof.S.B.Divarte	31 Jan - 01 Feb 2020	Recent Advances In Polymer Technology	KBCNMU, Jalgaon	National
16	Prof.S.B.Divarte	6-Mar-20	Virtual Labs	PREC Loni	State
17	Dr.A.R.Warade	18-22 May 2020	Spoken Tutorial	IIT,Bombay	National
18	Dr.A.R.Warade	21-23 May 2020	Sustainable development in Chemical Processes	PREC Loni	National
19	Dr.A.R.Warade	08-09 May 2020	Process Intensification in Chemical Technology	SVIT, Nasik	National
20	Dr.A.R.Warade	11-May-20	Sopoken Tutorial	IIT Bombay	National
21	Dr.A.R.Warade	11-16 April-2020	Machine Learning	PREC Loni	State
22	Dr.A.R.Warade	17-May-20	NBA-Accrediation process	Late. S.KBJCE, Nashik	State
23	Dr.A.R.Warade	Jan- Apr. 2020	NBA-Accrediation and Teaching-Learning in Engineering	Swayam, IIT Banglore	National
24	Dr.A.R.Warade	20,21-May 20	Industrial Scenario After Covid 19	PREC Loni	State
25	Dr.A.R.Warade	6-Mar-20	Virtual Labs	PREC Loni	State
26	Prof. R.L. Nibe	6-Mar-20	Virtual Labs	COET , Pune	State
27	Prof. R.L. Nibe	30-May-20	Roll Of Digital Libraries In Academics Research	DUCL , Shivgangotri	National
28	Prof. R.L. Nibe	8-9 - May - 20	Process Inensification In Chemical Technology	SVIT , Nashik	National
29	Prof. R.L. Nibe	21-23 - May - 20	Sustainable Development In Chemical Processes	PREC, Loni	State
30	Prof. R.L. Nibe	Jan- Apr. 2020	NBA-Accrediation and Teaching-Learning in Engineering	Swayam, IIT Banglore	National
31	Prof. R.L. Nibe	28-30 May - 20	Municipal Solid Waste Management During COVID-19 Pandemic	ANURAG , telanagana	National
32	Prof. R.L. Nibe	6-May-20	Spoken Tutorial	IIT , Bombay	National
33	Prof. S. R. Kadam	08-09-May 20	Process Intensification In Chemical Tehnology	SVIT, Nashik	National
34	Prof. S. R. Kadam	18-22- May-20	Application Of Industrial Engineering In Manufacturing & Infrastructure	DMCE,Airoli-Navi Mumbai	National
35	Prof. S. R. Kadam	21-23- May-20	Sustainable Development In Chemical Processes	KK Wagh Engg. College Nashik	National
36	Prof. S. R. Kadam	5-Jan-20	Covid-19 Pandemic Awareness Campaign	PREC,Loni	State
37	Prof. S. R. Kadam	21-May-20	Chemical Industrial Safety	TKIET	National
38	Prof. S. R. Kadam	6-Mar-20	Virtual Labs	PREC,Loni	State
39	Prof. S. R. Kadam	Jan-Apr-2020	NBA-Accrediation and Teaching-Learning in Engineering	IISc Banglore	National

40	Prof.R.V.Hinge	01-Mar-20	Spoken Tutorial	IIT, Bombay	National
41	Prof.R.V.Hinge	06-Mar-20	Vertual Lab	PREC Loni	State
42	Prof.R.V.Hinge	22-May-20	Chemical Engineering Safety	TKIET, Warananagar	National
43	Prof.R.V.Hinge	08-09 May 2020	Process Intensification in Chemical Technology	SVIT, Nasik	National
44	Prof.R.V.Hinge	21-23 May 2020	Sustainable development in Chemical Processes	KK Wagh Engg. College Nasik	National
45	Prof.R.V.Hinge	Jan-April 2020	NBA-Accreditation and Teaching-Learning in Engineering	IISc Bangalore	National

Students Internship

15/01/2020, Industrial In plant Training: Nine Students of TE completed Industrial In plant Training of 15 days at RCF Thal unit, Alibag.

S.N.	Name of Company	Name of Student		Date
01	Rashtriya Chemicals and	1. Khan Taufic Firoz 2. Bendre Dhananjay S	3. Hande Ravindra Sambhaji 4. Pabal Aniket Ramrao	16/12/2019- 30/12/2019
02	Fertilizers, Thal unit, Alibagh.	1. Landge Saurabh D. 2. Tupe Pranil Bharat 3. Badakh Ashish Kishor	4. Golhar Saurabh Prabhakar 5. Sahni Ranjeet Rampratap	01/01/2020- 15/01/2020

PREC, Loni, Campus.



The Faculty

	<p>Dr. Sunil Misal M. E., Ph. D. Professor & HOD Experience: - 22 yrs.</p>			<p>Mr. Ravindra Nibe M. E. Assistant Professor Experience :- 13 yrs.</p>
	<p>Dr. Ravindra Gaikwad M. E., Ph. D. Associate Professor Experience: - 27 yrs.</p>			<p>Mr. Rahul Hinge M. E. Assistant Professor Experience: - 13 yrs.</p>
	<p>Mr. Sudhakar Kadam M. E. Assistant Professor Experience :- 27 yrs.</p>			<p>Mr. Divate Sachin M. E. Assistant Professor Experience :- 10 yrs.</p>
	<p>Dr. A. R. Warade M. E., Ph. D. Associate Professor Experience:- 13 yrs.</p>			<p>Mr. B. G. Gholap Diploma in Chemical Technical Assistant Experience :- 18 yrs.</p>
	<p>Mr. S. B. Magar M. E., Ph. D. Associate Professor Experience:- 28 yrs.</p>			<p>Mr. A. J. Antre Diploma in Chemical Technical Assistant Experience :- 17 yrs.</p>
	<p>Mr. B. B. Tambe M. E. Assistant Professor Experience: - 14 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