



K.K. Wagh Education Society's

K.K. Wagh Institute of Engineering Education and Research, Nashik.

**Chemical Engineering Department**

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TECHNICAL NEWS LETTER

**July 2021 - December 2021**

The Department of Chemical Engineering was established in the year of 1999 with an objective of creating center of excellence for Chemical Engineering and the annual intake of students initially was 60. The department is accredited twice by National Board of Accreditation (NBA), AICTE, New Delhi. The department has proven faculty members having several years of experience in academics and veteran supporting staffs having strong research interests in conventional & emerging areas of Chemical Engineering. The department believes in continuous upgradation of the knowledge of the faculty and has been sponsoring the faculty for the post-graduation and research programme from last few years. It is well equipped with state-of-the-art infrastructure and laboratories as per the university syllabus. The department has adequate number of computers with latest configuration and internet facilities. The department also provides excellent computational facilities including professional software such as UNISIM, CHEMCAD, ZWCAD, ESPOIR SMART INTERVIEW SIMULATOR and MATLAB to the faculty and the students. In addition to this, the department has its own library offering reference books for all subjects and also Chemical Engineering encyclopedia.

The department has a good track of record of academic results. Students have secured top ranks at university examinations & achieved success in GATE, GRE & other examinations. Students have been recruited in the top National & International Chemical industries. Apart from the focus on basic sciences and engineering subjects, we motivate the students to participate in various national events such as Project Exhibition, Paper Presentation, Model Making and Sports Competition.

Association of Chemical Engineering Students (ACES), a student's association, functions in the department and provides strong platform for overall development of the students. The students get a chance to interact in Seminars, Workshops, Cultural Programmes, Expert Lectures on various topics like Personality Development, Preparation for Competitive Examination, study abroad etc through ACES. The department is proactive for good industry institute interaction. Department has signed MoUs with various industries for mutual benefit. Various experts from the industry are invited and industrial visits are organized every year regularly to bridge the gap between theory and practice. The department organizes in plant training for all second & third year students every year in various eminent industries such as BPCL, HPCL, IOCL, Reliance, RCF, Biocon

and other private sector industries available around. Most of the final year projects get sponsorship from industry.

#### Department Staff

S.N	Name	Qualification	Area of specialization	Designation
1.	Prof. Dr.Venkat S. Mane	Ph.D.	Chemical Engineering	Professor & H.O.D.
2.	Prof. Dr. Suyog N. Jain	Ph.D.	Chemical Engineering	Associate Professor
3.	Prof. Vijay N. Mawal	M.Tech., Ph.D Pursuing	Chemical Engineering	Assistant Professor
4.	Prof. Dr.Gaurav B.Daware	Ph.D.	Chemical Engineering	Assistant Professor
5.	Prof. Sandeep N. Derle	M.Tech., Ph.D Pursuing	Chemical Engineering	Assistant Professor
6.	Prof. Piyush P. Joshi	M.Tech.	Chemical Engineering	Assistant Professor
7.	Prof. Zameer K. Deshmukh	M.Tech.	Chemical Engineering	Assistant Professor
8.	Prof. Tejmal B. Mahale	M.Tech.	Chemical Engineering	Assistant Professor
9.	Prof. Varsha Parashar	M.Tech.	Chemical Engineering	Assistant Professor
10.	Prof. Dr. Sumisha A.	Ph.D.	Chemical Engineering	Assistant Professor
11.	Prof. Dr. Rajesh Yennam	Ph.D.	Chemical Engineering	Assistant Professor

#### Details of publications by the Faculty

Sr. No.	Name of Staff	Title of Paper	Journal Details	Academic Year
1.	Prof. Dr. G. B. Daware	Intensified sonochemical degradation of 2-Picoline in combination with advanced oxidizing agents	Ultrasonic Sonochemistry, (Elsevier) Volume No: 77, Article ID:105702, doi: <a href="https://doi.org/10.1016/j.ultsonch.2021.105702">https://doi.org/10.1016/j.ultsonch.2021.105702</a>	2021-2022

#### Expert Talks organized by department:

Sr. No.	Date	Name of Expert with Designation	Topic of Talk	No. of Students Present
1.	26/07/2021	Mr. C. R. Mohikar, Petro-Project Consultant, Nashik	Emergency, ERM, ERP	90
2.	28/07/2021	Dr. Pratibha Chandak, Counsellor, K. K. Wagh Institute of Engineering Education and Research, Nashik	Life Management Skills	96
3.	30/07/2021	Dr. P. V. Pathak, Rtd. Process Engg., HUL, Mumbai, Member of GEDA, Saligao, Goa	Entering into Final Year	91
4.	31/07/2021	Mr. Ketan Gandhi, Alumni (2020) GATE Rank:253, M.Tech. Admission Aspirant	Let's GATEit!	45
5.	07/08/2021	Mr. Vijaya Sai Andra, General Manager, Reliance Industries Ltd., Jamnagar, Gujarat	Overview of Petrochemical Cracker	57
6.	14/08/2021	Dr. Bolleddu Ravi, Assistant Professor, NIT Warangal, AP	Self-organized Instability of liquid crystal Ultra thin Films	46
7.	20/08/2021	Dr. V. V. Mahajani Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Utilization of Propylene : Hydroformylation-Oxo Synthesis	110
8.	21/08/2021	Sudhir R Shah, Training Faculty, Petroleum Conservation Research Association (PCRA), Bandra(E), Mumbai	Importance of Energy Conservation-ITP from PCRA	60
9.	25/08/2021	Dr. V. G. Pangarkar, Rtd. Professor	Chemical	72

		and Head, Chemical Engineering Department, Institute of Chemical Technology, Matunga, Mumbai	Engineering aspects of the manufacture of sulphuric acid	
10.	03/09/2021	Dr. Ravi kumar Peetala, Assistant Professor of Mechanical Engineering Department, VNIT Nagpur	Overview of Thermodynamics	75
11.	17/09/2021	Mr. Arjun Gujar, Alumnus, Director, Hydron Engineering Solutions Pvt. Ltd., Nashik	Introduction to Process Simulation and Opportunities for Chemical Engg. for study abroad'	45
12.	24/09/2021	Dr. S.M. Mahajani, Professor, Chemical Engineering Department, IIT Bombay	"Process Intensification through multifunctional reactors"	87
13.	27/09/2021	Ms. Rutuja Dharkar, Alumna, Asso. Vice President, HSBC Bank Mumbai	Resume Writing Workshop	52
14.	05/10/2021	Raghunath B. Vishrup, Head- EHS HESA One Thane	Safety in Chemical Plants	100
15.	09/10/2021	Dr. K. Elaya Perumal Corrosion and Metallurgical Consultant Tamil Nadu	Forms of Corrosion in Chemical Process Equipments with Real Time Case Studies	122
16.	12/10/2021	Dr. P. V. Pathak, Rtd. Process Engg., HUL, Mumbai, Member of GEDA, Saligao, Goa	Disinfection of Water for Millions	102
17.	30/10/2021	Mr. Bhuvan Dhanesha, President, World Memory Sports Council, Maharashtra	Changing the way students understand and remember study materials.	85
18.	13/11/2021	Dr. Anjali P. Bedse, Associate Professor Head of Dept. of Pharmaceutics, K. K. Wagh Institute of Pharmacy, Nashik	Overview of Pharmaceutical Industry	30
19.	22/11/2021	Dr. V. V. Mahajani Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Green Ethylene	96
20.	23/11/2021	Prof. S. S. Bairagi, Asst. Professor, K. K. Wagh Agriculture College, Nashik	Overview of Agrochemicals Industry	25
21.	25/11/2021	Mr. Ashutosh Patil	Overview of Paint, Surfactant Industry	45
22.	03/12/2021	Dr. K. Haribabu, Assistant Professor, Department of Chemical Engineering, National Institute of Technology Calicut, Kozhikode, Kerala.	Pumps and NPSH	31
23.	04/12/2021	Dr. Makarand Pimpalpure, Founder and Managing Director, MakSpeed Technologies, Pune	Flow Chemistry	52
24.	10/12/2021	Gautam Seth, Chief Technology Officer, ThinkZy Tech, Mumbai	Importance of data science and Analytics in Chemical Engg.	53

**National / International Seminars / Conferences / Workshop / Symposia attended by staff**

Sr. No.	A.Y.	Name of Faculty/Coordinator(s)	Title of Conference /Event	Organized by Faculty	Date
1.	2021-22	Prof. Mawal V. N.	Advances in fluid, Heat and Mass Transfer	PREC, SVIT, Nashik	05/07/2021
2.	2021-22	Prof. Joshi P. P.	Short term Training Programme for Teaching Professionals	HRD Center, RCF, Mumbai	10/12/2021
3.	2021-22	Prof. Deshmukh Z. K.	Material Science : 10 things Every Engineer Should know	University of California, Davis through Coursera	26/06/2021
4.	2021-22	Prof. Mahale T. B.	Recent Trends in Green Technology and Materials	Sinhgad College of Engineering, Pune	20/12/2021
5.	2021-22	Prof. Parashar Varsha	Waste Technology	ATAL & GEC, Bharuch	20/12/2021

6.	2021-22	Prof. Parashar Varsha	Designing your personal weight loss plan	Case western Reserve university	27/07/2021
7.	2021-22	Dr. Sumisha A	Involved air separation process in mitigating oxygen	West Bengal State Center of the Institution of Engineers	23/07/2021
8.	2021-22	Dr. Sumisha A	Advances in fluid, Heat and Mass Transfer	PREC, SVIT, Nashik	05/07/2021
9.	2021-22	Dr. Yennam R.	Recent Trends in Green Technology and Materials	by Sinhgad College of Engineering, Pune	20/12/2021
10.	2021-22	Dr. Yennam R.	Synthesis and Characterization of low cost Wood-based Biosorbents	School of Technology, Padit Deendayal Energy University, Gujrat	19/11/2021
11.	2021-22	Dr. Yennam R.	Novel Applications of Chemical Engineering	M V G R College of Engineering Vizinagam, Andhra Pradesh	15/07/2021
12.	2021-22	Dr. Yennam R.	Advances in fluid, Heat and Mass Transfer	PREC, SVIT, Nashik	05/07/2021
13.	2021-22	Dr. Yennam R.	Functional Materials for Energy Environment and Healthcare at under ATAL	ATAL & NIT Calicut	21/06/2021

**National / International Seminars / Conferences / Workshop / Symposia attended by student**

Sr. No.	A.Y.	Name of Student	Title of Conference /Event	Organized by	Date
1.	2021-22	Khan Nabeel	Intershala talk drive	Scholiverse Educare Pvt., Ltd., Gurgaon -122018	09/11/2021
2.	2021-22	Joshi Sayli	smart handwash Hakathon, Global handwash day	Maulana Azhad national Institute of Technology, Bhopal	16/10/2021
3.	2021-22	Marathe Sarven	Foundations: Data, Data Everywhere	by Google	08/12/2021
4.	2021-22	Chawada Deesha	Ecosystem degradation and the need for restoration through the lens of Environment and human health	ICMR- national institute for Research in Environment Health	05/06/2021
5.	2021-22	Gajare Abhijit	Industrial Environmental Pollution Management	Terra-Green Technologies Pvt., Ltd.,	15/09/2021

**Youtube videos developed by faculty**

Sr. No.	Name of Faculty	Subject	Topic	Video Link
1	Dr. Sumisha A	Fluid Mechanics Transfer	Bernoulli's Theorem	<a href="https://youtu.be/lcY-OVDjiss">https://youtu.be/lcY-OVDjiss</a>
			Minor losses	<a href="https://youtu.be/duWuMw3XX3c">https://youtu.be/duWuMw3XX3c</a>
2	Prof. Dr.Y. Rajesh	Soft skill	How to prepare a professional resume	<a href="https://youtu.be/6JhJ_nS1Hr4">https://youtu.be/6JhJ_nS1Hr4</a>
			Presentation Skills	<a href="https://youtu.be/S_Ve10NmDxA">https://youtu.be/S_Ve10NmDxA</a>
			Short Term and Long Term Goals	<a href="https://youtu.be/GXuHJEVAtMM">https://youtu.be/GXuHJEVAtMM</a>

**IICHe Chapter Activies**

- IICHe Chapter is established by the department.
- Approval has been received from IICHe Head Quarter, Kolkata. (*Approval Letter No. Ref: AG / C-2 / 2020 / 375 Dated 08<sup>th</sup> November 2021*)
- Prof. P. P. Joshi is nominated as coordinator of the chapter.
- Various activities conducted through IICHe student Chapter:

■ **IChE membership details of the faculty:**

Sr. No.	Name of Faculty	Membership details
1.	Dr. V. S. Mane	LM31586
2.	Dr. S. N. Jain	LM 65351
3.	Prof. V. N. Mawal	LM31588
4.	Dr. G. B. Daware	LM-65352
5.	Prof. P. P. Joshi	LM-65356
6.	Prof. S. N. Derle	LM-65355
7.	Dr. Yennam Rajesh	LM-72898

■ **Details of activities conducted through IChE student Chapter:**

Sr. No.	Date	Activity Title	Resource Person with address	No. of Students attended
1.	13/11/2021	Overview of Pharmaceutical Industry	Dr. Anjali P. Bedse, Associate Professor Head of Dept. of Pharmaceutics, K. K. Wagh Institute of Pharmacy, Nashik	30
2.	22/11/2021	Green Ethylene	Dr. V. V. Mahajani Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	105
3.	23/11/2021	Overview of Agrochemicals Industry	Prof. S. S. Bairagi, Asst. Professor, K. K. Wagh Agriculture College, Nashik	25
4.	25/11/2021	Overview of Paint, Surfactant Industry	Mr. Ashutosh Patil, Asst. Manager R&D, JSW Paints, Mumbai	38
5.	03/12/2021	Pumps and NPSH	Dr. K. Haribabu, Assistant Professor, Department of Chemical Engineering, National institute of Technology Calicut, Kozhikode, Kerala, India	31
6.	04/12/2021	Flow Chemistry	Dr. Makarand Pimplapure, Founder and Managing Director, MakSpeed Technologies, Pune	52
7.	10/12/2021	Importance of data science and Analytics in Chemical Engg.	Gautam Seth, Chief Technology Officer, ThinkZy Tech, Mumbai	62
8.	11/12/2021	Green Chemistry: My Perception	Dr. V. V. Mahajani Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	113

Prof. Dr. V. S. Mane  
HOD, Chemical Engg.

Prof. Dr. K. N. Nandurkar  
Principal

