



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

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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	Removal of pyridine using ultrasound assisted and conventional batch adsorption based on tea waste residue as biosorbent	Environmental Technology & Innovation	2020-2021
2.	Prof. Dr. Sumisha A	Energy Generation and Iron Removal in Batch and Continuous Single-Chamber Microbial Fuel Cells	Chemical Engineering & Technology	2020-2021
3.	Prof. Dr. Sumisha A	A Study on Polythiophene Modified Carbon Cloth as Anode in Microbial Fuel Cell for Lead Removal	Arabian journal for science and technology	2020-2021

Summary of Expert Talks

Sr. No.	Date	Name of Expert with Designation	Topic of Talk	No. of Students Present
1	03/02/2021	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Fouling in Heat Exchanger	177
2	02/03/2021	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Project Management Part-1	84
3	09/03/2021	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Project Management Part-2	93
4	15/03/2021	Mr. C. R. Mohikar, Petro-Project Consultant, Nashik	Career and entrepreneurship development (For chemical/chemistry candidates)	90
5	16/03/2021	Raghunath B. Vishrup, Head- EHS HESA One Thane	EHS Role of Engineer	121
6	22/03/2021	Mr. Swapan Ghosh, Retired Professional, Asst. Vice President R&D, Reliance Industries Ltd, Jamnagar & Navi Mumbai	"Overall Petroleum refining process"	218

7	23/03/2021	Mr. C. B. More, Director, C. B. Study Abroad Consultant, Plot No:16, Vidhata Nagar, B/h Prabhu Capital Building, Nashik-422001	Study Abroad Opportunities for Chemical Engineers	85
8	24/03/2021	Dr. K. Elaya Perumal, Corrosion and Metallurgical Consultant Unit C-20, "Melur Meadows" Kumaran Kundru Village Vadavalli-Pogalur Post Mettupalayam-Annur Road Coimbatore District Tamil Nadu - 641 697	Design of Chemical process equipments against Corrosion from Process side with case study	165
9	25/03/2021	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Membrane Processes	130
10	25/03/2021	Dr. P. V. Pathak, Rtd. Process Engg., HUL, Mumbai, Member of GEDA, Saligao, Goa	Handling of Chemical Equipment on the shopfloor	66
11	26/03/2021	Mr. Ketan Gandhi, Alumni (2020) GATE Rank:253, M.Tech. Admission Aspirant Technology, Matunga, Mumbai	Let's GATEit!	92
12	24/05/2021	Mr. Niraj Kulkarni, Alumni(2019), Working with Aqarius Chemicals, Pune	Preparation for Sharpening skills of Graduates	48
13	01/06/2021	Mr. Niraj Kulkarni, Alumni(2019), Working with Aqarius Chemicals, Pune	Preparation for Sharpening skills of Graduates	55
14	25/03/2021	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Batch Distillation	106

National / International Seminars / Conferences / Workshop / Symposia attended

Sr. No.	A.Y.	Name of Faculty/ Coordinator(s)	Title of Conference /Event	Organized by Faculty	Date
1.	2020-2021	Prof. Dr.S.N. Jain	Online non-credit course on Verb Tenses and Passives	By University of California, Irvine	09/01/2021
2.	2020-2021	Prof. Dr.V.S. Mane	Online non-credit course on Verb Tenses and Passives	By University of California, Irvine	01/01/2021

Record of ICT usage by faculty

Details of UdeMy Courses developed by faculty

Sr. No.	Name of Faculty	Name of the course	Link of the UdeMy course
1	Prof. Dr. V.S. Mane	Introduction to Heat Transfer	https://www.udemy.com/course/introduction-to-heat-transfer/?referralCode=79C8B9CC4538FD35D826
2	Prof. V N Mawal	Process and Mechanical Design of Process Equipments I	https://www.udemy.com/course/process-and-mechanical-design-of-process-equipments-i/learn/lecture/25829886#overview
3	Prof. Dr. S N Jain	Transport Phenomena_ Momentum, Energy and Mass Transfer	https://www.udemy.com/course/transport-phenomena_momentum-energy-and-mass-transfer/?referralCode=1FE458AAE4E235BA243B
4	Prof. Dr.G B Daware	Size reduction, separation and Mixing	https://www.udemy.com/course/size-reduction-separation-and-mixing-mechanical-operation/learn/lecture/25847680#overview
5	Prof. S N Derle	Insights of Petrochemical Industry	https://www.udemy.com/course/insights-of-petrochemical-industry/
6	Prof. P P Joshi	Nanotechnology: an Introduction	https://www.udemy.com/course/nanotechnology-an-introduction/?referralCode=997AC352BED1E05668B1
7	Prof. Z K Deshmukh	Chemical Process Safety	https://www.udemy.com/course/draft/3885156/?instructorPreviewMode=quest
8	Prof. T B Mahale	Chemical Technology I	https://www.udemy.com/course/draft/3982918/learn/lecture/26012916/?instructorPreviewMode=student_v4#overview
9	Prof. V Parashar	Chemical Reaction Engineering I	https://www.udemy.com/course/chemical-reaction-engineering-i/learn/lecture/25907436#content
10	Prof. Dr. Sumisha A	Petrochemical Engineering	https://www.udemy.com/course/chemical-engineering/learn/lecture/25927904#announcements

Youtube videos

Sr. No.	Name of Faculty	Subject	Topic	Video Link
1	Prof. Dr. V.S. Mane	Heat Transfer	Introduction to Evaporator Radiation Heat Transfer	https://youtu.be/l8Btrtg8gbs https://youtu.be/KYWEjcm5nU
2	Prof. V. N. Mawal	Chemical Engineering Design I	Process (Thermal) Design of Shell and Tube Heat Exchanger	https://youtu.be/ON1XyJ5OIL0
			Basic Considerations and Design Aspects of Storage Vessels	https://youtu.be/1f0g0M17hog
			Mechanical Design of Tall Vertical Column	https://youtu.be/ZwcZJhKJRW4
		Mass Transfer II	1. Process (Thermal) Design of Shell and Tube Heat Exchanger	https://youtu.be/ON1XyJ5OIL0
			2. Basic Considerations and Design Aspects of Storage Vessels	https://youtu.be/1f0g0M17hog
			Mechanical Design of Tall Vertical Column	https://youtu.be/ZwcZJhKJRW4
3	Dr. S. N. Jain	Transport Phenomena	Transport Phenomena_ Mass transfer	https://youtu.be/S6ZUCKRG9yE
			Transport Phenomena: Heat Transport	https://youtu.be/g80OfsqLaw8
			Transport Phenomena_ Momentum Transfer	https://youtu.be/lJTYAD_yQGI
4	Prof. D.G. Daware	Process Dynamics and control	Advance control system	https://youtu.be/P2Cw6T-QjAg
			Digital control system	https://youtu.be/rzjJF1o9BHK
		Mechanical	Size reduction	https://studio.youtube.com/video/iUBafS4J_Ql/edit
			Sedimentation	https://youtu.be/sHZkFVRjVfU
		Operation Reaction	Fluidisation	https://youtu.be/kfrUj2urOaU
			Distillation and its type	https://youtu.be/tIQ_1ME5EXw
5	Prof. D.G. Daware	Mass Transfer	Reflux ratio and q-line	https://youtu.be/QpGa7O9hpRs
			Fundamentals of Process Instrumentation	https://youtu.be/sZk9BhuZZWM
			Temperature Measuring Instruments	https://youtu.be/HBwCIPkd4F8
			Synthesis of Nanoparticles	https://youtu.be/XZtgKG80GqU
6	Prof. D.G. Daware	Nanotechnology	Characterization of Nanomaterials	https://youtu.be/QqR9Dbehspc

Achievements in Department

Prof. G.B. Daware has completed Ph.D. from Institute of chemical Technology (ICT) Mumbai under the guidance of Prof. P. R. Gogate. Topic: Removal of pyridine Derivatives from wastewater using combination approaches involving adsorption, ultrasound and advanced oxidation.



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

Prof. Dr. K. N. Nandurkar
Principal