



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, function 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	Assistant Professor
3.	Prof. Vijay N. Mawal	M.Tech, Ph.D Pursuing	Chemical Engineering	Assistant Professor
4.	Prof. Gaurav B. Daware	M.Tech	Chemical Engineering	Assistant Professor
5.	Prof. Sachin S. Shinde	M.Tech	Chemical Engineering	Assistant Professor
6.	Prof. Sandeep N. Derle	M.Tech	Chemical Engineering	Assistant Professor
7.	Prof. Manohar K. Ahire	M.Tech	Chemical Engineering	Assistant Professor
8.	Prof. Piyush P. Joshi	M.Tech	Chemical Engineering	Assistant Professor
9.	Prof. Zameer K. Deshmukh	M.Tech	Chemical Engineering	Assistant Professor
10.	Prof. Tejmal B. Mahale	M.Tech	Chemical Engineering	Assistant Professor
11.	Prof. Abhijeet S. Kshirsagar	M.Tech	Chemical Engineering	Assistant Professor

Details of publications by the Faculty

Sr. No.	Name of Staff	Title of Paper	Journal Details	Academic Year
1.	Dr. S. N. Jain, Dr. V. S. Mane, Prof. V. N. Mawal	Nonlinear Regression Approach for Acid Dye Remediation Using Activated Adsorbent: Kinetic, Isotherm, Thermodynamic and Reusability Studies	Micro chemical Journal (Elsevier)	2018-2019

Summary of Expert Talks

Sr. No.	Date	Name of Expert with Designation	Topic of Talk	No. of Students Present
1.	08/07/2019	Ms. Tejaswini Vaidya, Alumna, Persuing M.S. from University of Idaho, Moscow, USA	Career Guidance on Education in Abroad	69
2.	17/07/2019	Dr. P. V. Pathak, Ret. Professional, HUL, Mumbai, Member of GEDA, Saligao, Goa	Project Guidance-Innovative Project Topics	51
3.	09/08/2019	Sudhir R Shah, Training Faculty, Petroleum Conservation Research Association (PCRA),Bandra(E),Mumbai	Importance of Energy Conservation	139
4.	23/08/2019	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Fouling in Heat Exchanger	56
5.	29/08/2019	Dr. Kiran Derle, Faculty, Career Launcher Academy, Nashik	Preparation for MBA Entrance Examinations	112
6.	09/09/2019	Mr. S. K. Kshirsagar, Section Engineer, Hydrology Project, MERI, Nashik	Water Quality and Treatment	69
7.	16/09/2019	Mrs. Smita Bhamare, Stepahead Study Abroad Consultancy, Nashik	Opportunities for Study Abroad	84
8.	19/12/2019	Dr. V. G. Pangarkar, Rtd. Professor and Head, Institute of Chemical Technology, Mumbai	Distillation	58
9.	28/12/2019	Mr. Saurabh Todi, Alumnus (2018), Associate Consultant, Persistence Market Research, Pune	Scope of Chemical Engg. in Market Research	52

Summary of Industrial Visit

It includes students going on a industrial visit to an organization relating to the profession for which they are being groomed in order to get a feel of the real world and professional demands. It provides a valuable opportunity to discover the realities and the practice of the profession the students are aiming for.

Sr. No.	Name of the Industry	Class	No. of Students	Date of Visit	Name of the accompanying Faculty
1	Sunshine Paints, Ambad, Nashik	S.E.	58	26/07/2019	Prof. Z. K. Deshmukh Prof. A. S. Kshirsagar
2	Bikussa Paper-Mill, Nashik	T.E.	57	13/09/2019	Prof. G. B. Daware Prof. S. N. Derle
3	Children Traffic Educational Park, Nashik	S.E.	48	19/09/2019	Prof. G. B. Daware Prof. Z. K. Deshmukh
4	Agrisearch Pvt. Ltd., Nashik	B.E.	59	24/09/2019	Prof. G. B. Daware Prof. P.P. Joshi
5	Hydrology Water Quality Lab, Nashik	T.E.	61	26/09/2019	Prof. P.P. Joshi Prof. A. S. Kshirsagar

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.	2019-2020	Prof. G.B. Daware	Advances in Fluid, Heat and Mass transfer	SVIT, Chincholi, Nashik	16/12/2019
2.	2019-2020	Prof. P.P. Joshi	Reactive Separations: Theory, Practice And Industrial Applications	Dr. B. A. Technological University, Lonere, Raigad, Maharashtra	25/11/2019
3.	2019-2020	Prof. P.P. Joshi	Waste to Energy- A Green Approach	AICTE & Shree Guru Gobind Singhji Institute of Engg. & Technology	03/07/2019

ICT Records by Faculty

Sr. No.	Name of Faculty	Subject	Topic	Link
1	Prof. Dr. S.N. Jain	Fluid mechanics	Friction factor concept and derivation	https://youtu.be/LySFKdwJHhY
			Law of heat, mass and momentum transfer	https://youtu.be/J0mxopTWJIA
			Newton's law of viscosity	https://youtu.be/Q5j6SoX1TsM
			Fluid, Branches of Fluid mechanics, Properties of Fluid and numericals	https://youtu.be/hCjrMuBMzdA
			Bernoulli's Theorem and its Applications	https://youtu.be/1dtKOrfwFo
			Major and Minor Losses	https://youtu.be/4xOIAEgnXag
		Process Dynamics and Control	Transfer Function, Dynamic Response of First-Order System to step input and Numerical	https://youtu.be/JMxUvdZ-6Sk
			Stability, Examples and Routh theorems of Stability	https://youtu.be/DbfwMS9CLCU
			Frequency Response Analysis and Numerical	https://youtu.be/AufHecs9Zf4

Sr. No.	Name of Faculty	Subject	Topic	Link
2	Prof. Dr. G. B. Daware	Process Calculations	Humidification	https://youtu.be/ik1W5zvf9h4
			Gram Equivalent gram mole	https://youtu.be/8Bdbjx665Oc
			Molarity	https://youtu.be/OsTISLi1YmA
			Basic unit conversion	https://youtu.be/C_zCn_hyM3M
			Material Balance without chemical reaction	https://youtu.be/VDubkF_SRHU
			Material Balance with chemical reaction	https://youtu.be/JGMx0j-NyzQ

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

Prof. Dr. K. N. Nandurkar
Principal

