



**K.K. Wagh Education Society's**

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

**Chemical Engineering Department**

Vol.: 2, Issue:1

**TECHNICAL NEWS LETTER**

**January 2020 - June 2020**

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 motivates 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	Associate Professor
3.	Prof. Vijay N. Mawal	M.Tech,Ph.D Pursuing	Chemical Engineering	Assistant Professor
4.	Prof. Gaurav B. Daware	Ph.DPursuing	Chemical Engineering	Assistant Professor
5.	Prof. Sachin S. Shinde	M.Tech	Chemical Engineering	Assistant Professor
6.	Prof. Sandeep N. Derle	M.Tech,Ph.D Pursuing	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
11.	Prof. Varsha Parashar	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,	Vegetable residue of fenugreek (Trigonell a Foenum-Graecum), waste biomass for removal of Basic Violet 14 from wastewater: Kinetic, equilibrium, and reusability studies	Sustainable Chemistry and Pharmacy (Elsevier)	2019-2020
2.	Dr. S. N. Jain Prof. V.N. Mawal	Kinetic, equilibrium, thermodynamic, and desorption studies for sequestration of acid dye using waste biomass as sustainable adsorbents	Biomass Conversion and Biorefinery (Springer)	2019-2020
3.	Dr. S. N. Jain	Incense stick ash as a novel and sustainable adsorbent for sequestration of Victoria Blue from aqueous phase	Sustainable Chemistry and Pharmacy (Elsevier)	2019-2020
4.	Dr. S. N. Jain	Batch and continuous studies for adsorption of anionic dye onto waste tea residue: Kinetic, equilibrium, breakthrough and reusability studies	Journal of Cleaner Production (Elsevier)	2019-2020

#### Summary of Expert Talks

Sr. No.	Date	Name of Expert with Designation	Topic of Talk	No. of Students Present
1	04/01/2020	Mr. C. R. Mohikar, Petro-Project Consultant, Nashik	Integrated & Advanced Energy & Infrastructure Systems	63
2	07/01/2020	Mr. Anil Nikam, Mr. Jayesh Karhe, Ashoka Buildcon Ltd., Nashik	Road Safety Campaign	49
3	09/01/2020	Dr. V. V. Mahajani, Superannuated Professor Institute of Chemical Technology, Matunga, Mumbai	Naptha Reforming and Manufacturing of aromatics	129
4	10/01/2020	Dr. P V Pathak, Rtd. Process Engineer, HUL, Mumbai	Project Guidance	50



5	11/01/2020	Ms. Shruti Shah, Alumna (2019) , Praj Industries Ltd., Pune	Preparation for Campus Placements	61
6	15/01/2020	Mrs. Smita Bhamare, Stepahead Study Abroad Consultancy, Nashik	Opportunities for Study Abroad	59
7	21/01/2020	Mr. Ravindra Jorigal, Manager-Business Development, Asian Academy of Professional Training, Pune	Piping Design Engineering	26
8	25/01/2020	Dr. A. V. Borhade, Professor KTHM College, Nashik	Nanotechnology and Zeolites	46
9	28/02/2020	Dr. V. V. Mahajani, Superannuated Professor, Institute of Chemical Technology, Matunga, Mumbai	Naptha Reforming and Manufacturing of aromatics	42
10	11/03/2020	Mr. Sagar Nikam, Director Excellence Learning Centre, Nashik	Preparation for MBA Entrance Examinations	80

### Summary of Industrial Visit

It includes students going on industrial visit to an organization related 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.	Godawari Biorefineries Ltd., Kopergaon	T.E.	61	11/01/2020	Prof. P.P. Joshi Mr. A. N. Pagar
2.	Abeline Polymer Ltd. Nashik	S.E.	56	16/01/2020	Prof. G. B. Daware Prof. P. P. Joshi
3.	Sewage Treatment Plant, Nashik	T.E.	60	24/02/2020	Prof. G. B. Daware Prof. M. K. Ahire
4.	Kadawa Sahakari Sakhar Karkhana, Dindori	T.E.	54	02/03/2020	Prof. P. P. Joshi Prof. M. K. Ahire

### 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. T. B. Mahale	Brief Insights on Project Management in Oil and Gas Engineering, Procurement & Construction Projects	SSBT's College of Engineering & Technology, Bambhori	27/06/2020
2.	2019-2020	Prof. Varsha Parashar	Brief Insights on Project Management in Oil and Gas Engineering, Procurement & Construction Projects	SSBT's College of Engineering & Technology, Bambhori	27/06/2020
3.	2019-2020	Prof. Z. K. Deshmukh	Brief Insights on Project Management in Oil and Gas Engineering, Procurement & Construction Projects	SSBT's College of Engineering & Technology, Bambhori, Jalgaon.	27/06/2020
4.	2019-2020	Prof. T. B. Mahale	Food Safety and Management	K. K. Wagh College of Food Technology	26/06/2020
5.	2019-2020	Prof. T. B. Mahale	Stress management in New Normal Condition	IQAC KKWAGH Arts Commerce, Science & Computer Science College, Chandori	23/06/2020
6.	2019-2020	Prof. Varsha Parashar	Completed Faculty Development Programme	V.V.P. Institute of Engg. & Tech. Solapur	22/06/2020
7.	2019-2020	Prof. Dr. V.S.Mane	Development and Impact of Recent Technologies & Innovations in Chemical Engineering	Mahatma Gandhi Mission's College of Engineering & Technology	21/06/2020

8.	2019-2020	Prof. T. B. Mahale	Development and Impact of Recent Technologies & Innovations in Chemical Engineering	Mahatma Gandhi Mission's College of Engineering & Technology	21/06/2020
9.	2019-2020	Prof. Z. K. Deshmukh	Development and Impact of Recent Technologies & Innovations in Chemical Engineering	Mahatma Gandhi Mission's College of Engineering & Technology	21/06/2020
10.	2019-2020	Prof. S.N. Derle	Chemical Process Industry Safety in India: a big Concern	Chemical Engg. Dept., Malaviya National Institute of technology, Jaipur	20/06/2020
11.	2019-2020	Prof. P. P. Joshi	Online Teaching & Assessment Tools for OBE and Publications of Papers in Pedagogy Journals	Rajarambapu Institute of Technology, Sangali, Maharashtra	20/06/2020
12.	2019-2020	Prof. T. B. Mahale	Online Teaching & Assessment Tools for OBE and Publications of Papers in Pedagogy Journals	Rajarambapu Institute of Technology, Sangali, Maharashtra	20/06/2020
13.	2019-2020	Prof. P. P. Joshi	Chemical Engineering-Towards Sustainability and Process Intensification	Gharda Institute of Technology, Lavel, Tal. Khed, Dist. Ratnagiri	15/06/2020
14.	2019-2020	Prof. S.N. Derle	Energy Audit & Management	MGM College of Engineering & Technology, Mumbai	14/06/2020
15.	2019-2020	Prof. V.N. Mawal	Energy Audit & Management	MGM College of Engineering & Technology, Mumbai	14/06/2020
16.	2019-2020	Prof. T. B. Mahale	Energy Audit & Management	MGM College of Engineering & Technology, Mumbai	14/06/2020
17.	2019-2020	Mr. A. D. Vaidya	Take your English Communication skills to the Next Level	Georgia Institute of Technology	11/06/2020
18.	2019-2020	Prof. Dr. V.S. Mane	Introduction to Process Intensification	Chemical Engg. dept., KKWIE&R, Nashik	09/06/2020
19.	2019-2020	Prof. G.B. Daware	Introduction to Process Intensification	Maxspeed Technologies Pvt. Ltd., Pune	09/06/2020
20.	2019-2020	Prof. Dr. S.N. Jain	Introduction to Process Intensification	Maxspeed Technologies Pvt. Ltd., Pune	09/06/2020
21.	2019-2020	Prof. T.B. Mahale	Introduction to Process Intensification	Maxspeed Technologies Pvt. Ltd., Pune	09/06/2020
22.	2019-2020	Prof. Z. K. Deshmukh	Mastering bitumen for better roads and innovative applications	Paris Tech Bridge School	09/06/2020
23.	2019-2020	Prof. Z. K. Deshmukh	Materials Science: 10 Things Every Engineer Should know	The University of California, Davis	09/06/2020
24.	2019-2020	Mr. A. D. Vaidya	Write Professional Emails in English	Georgia Institute of Technology	08/06/2020
25.	2019-2020	Prof. P. P. Joshi	Analytical techniques for determination of elemental constituents	Siddaganga Institute of Technology, Tumakuru, Karnataka	08/06/2020
26.	2019-2020	Prof. Ahire M.K.	ICT Tools for Collaboration	IQAC-KKWIEER, Nashik	01/06/2020
27.	2019-2020	Prof. G.B. Daware	ICT Tools for Collaboration	IQAC-KKWIEER, Nashik	01/06/2020
28.	2019-2020	Prof. P. P. Joshi	ICT Tools for Collaboration	IQAC-KKWIEER, Nashik	01/06/2020



29.	2019-2020	Prof. Dr. S.N. Jain	ICT Tools for Collaboration	IQAC-KKWIEER, Nashik	01/06/2020
30.	2019-2020	Prof. T. B. Mahale	Designing for Experience: Applying Design Thinking to Learning Organization	KKWIEER, Nashik	01/06/2020
31.	2019-2020	Prof. Z. K. Deshmukh	ICT Tools for Collaboration	IQAC-KKWIEER, Nashik	01/06/2020
32.	2019-2020	Mr. A. S. Nathe	Take Your English Communication Skills to the next Level	Georgia Institute of Technology	31/05/2020
33.	2019-2020	Prof. S. N. Derle	Design of Shell and Tube Heat Exchanger	Chemical Engineering Department of Bharati Vidyapeeth College of Engineering, Navi Mumbai	31/05/2020
34.	2019-2020	Prof. P. P. Joshi	Design of Shell and Tube Heat Exchanger	Chemical Engineering Department of Bharati Vidyapeeth College of Engineering, Navi Mumbai	31/05/2020
35.	2019-2020	Prof. Dr. S.N. Jain	Design of Shell and Tube Heat Exchanger	Chemical Engineering Department of Bharati Vidyapeeth College of Engineering, Navi Mumbai	31/05/2020
36.	2019-2020	Mr. A. N. Pagar	Improve your English Skill online course	Georgia Tech	29/05/2020
37.	2019-2020	Mr. A. D. Vaidya	Speak English Professionally : In Person , online & On the phone	Georgia Institute of Technology	29/05/2020
38.	2019-2020	Prof. S.N. Derle	Municipal Solid Waste Management during COVID-19 Pandemic	Anurag Group of Institutions, Medchal, Telangana	28/05/2020
39.	2019-2020	Prof. P. P. Joshi	Municipal Solid Waste Management during COVID-19 Pandemic	Anurag Group of Institutions, Medchal, Telangana	28/05/2020
40.	2019-2020	Prof. Dr. S.N. Jain	Municipal Solid Waste Management during COVID-19 Pandemic	Anurag Group of Institutions, Medchal, Telangana	28/05/2020
41.	2019-2020	Prof. G.B. Dawae	Entrepreneurship Development For Engineers	AISSMS COE, Pune	27/05/2020
42.	2019-2020	Mr. A. S. Nathe	Build Your Professional ePortfolio in English	Georgia Institute of Technology	25/05/2020
43.	2019-2020	Prof. S. N. Derle	"Sustainable Development in Chemical Processes"	Chemical Engineering Department KKWIEER, Nashik	21/05/2020
44.	2019-2020	Prof. G.B. Dawae	"Sustainable Development in Chemical Processes"	Chemical Engineering Department KKWIEER, Nashik	21/05/2020
45.	2019-2020	Prof. Mawal V.N.	"Sustainable Development in Chemical Processes"	Chemical Engineering Department KKWIEER, Nashik	21/05/2020
46.	2019-2020	Prof. Dr. S.N. Jain	"Sustainable Development in Chemical Processes"	Chemical Engineering Department KKWIEER, Nashik	21/05/2020
47.	2019-2020	Prof. T. B. Mahale	"Sustainable Development in	Chemical Engineering	21/05/2020

			Chemical Processes"	Department KKWIEER, Nashik	
48.	2019-2020	Prof. Varsha Parashar	"Sustainable Development in Chemical Processes"	Chemical Engineering Department KKWIEER, Nashik	21/05/2020
49.	2019-2020	Prof. S.N. Derle	Faculty Awareness Programme on NBA	Department of Electronics & Telecommunication Engineering, Dr. D. Y. Patil School of Engineering & Technology, Pune	16/05/2020
50.	2019-2020	Prof. Derle S.N.	NAAC Awareness Quiz 2020	NAAC Awareness Quiz 2020 by IQAC, AISSMS	16/05/2020
51.	2019-2020	Prof. Dr. S.N. Jain	Faculty Awareness Programme on NBA	Dr. D. Y. Patil School of Engineering & Technology, Pune	16/05/2020
52.	2019-2020	Prof. S. N. Derle	Recent Trend in Nano Technology	Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik	13/05/2020
53.	2019-2020	Prof. G.B. Dawae	Oil & Gas Industry Operations and Markets	Duke University	13/05/2020
54.	2019-2020	Prof. Dr. S.N. Jain	Recent Trend in Nano Technology	Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik	13/05/2020
55.	2019-2020	Prof. Varsha Parashar	Grammar and Punctuation	UCI Division of Continuing Education	13/05/2020
56.	2019-2020	Prof. P. P. Joshi	Nano Technology : A Makers Course an online Non Credit Course	Dukes NC State University	11/05/2020
57.	2019-2020	Prof. Dr. S.N. Jain	Nano Technology : A Makers Course an online Non Credit Course	Dukes NC State University	11/05/2020
58.	2019-2020	Prof. G.B. Dawae	Process Intensification in Chemical Technology	SVIT, Chincholi.	08/05/2020
59.	2019-2020	Prof. P. P. Joshi	Process Intensification in Chemical Technology	SVIT, Chincholi.	08/05/2020
60.	2019-2020	Prof. Dr. S.N. Jain	Process Intensification in Chemical Technology	SVIT, Chincholi.	08/05/2020
61.	2019-2020	Prof. Varsha Parashar	Process Intensification in Chemical Technology	SVIT, Chincholi.	08/05/2020
62.	2019-2020	Prof. Z. K. Deshmukh	Process Intensification in Chemical Technology	SVIT, Chincholi.	08/05/2020
63.	2019-2020	Mr. A. S. Nathe	Speak English Professionally : In Person, Online & On the phone	Georgia Institute of Technology	03/05/2020
64.	2019-2020	Prof. Dr. S.N. Jain	Examination Reform course organized	AICTE, Delhi	29/04/2020
65.	2019-2020	Mr. A. N. Pagar	Write Professional Emails in English	Georgia Institute of Technology	28/04/2020
66.	2019-2020	Mr. A. N. Pagar	Speak English Professionally : In Person, Online & On the phone	Georgia Institute of Technology	03/05/2020
67.	2019-2020	Mr. A. N. Pagar	Build Your Professional ePortfolio in English	Georgia Institute of Technology	28/04/2020
68.	2019-2020	Mr. A. S. Nathe	Write Professional Emails in English	Georgia Institute of Technology	27/04/2020
69.	2019-2020	Prof. Ahire M.K.	Oil & Gas Industry Operations and Markets	Duke University	05/04/2020
70.	2019-2020	Prof. Dr.S.N. Jain	Oil & Gas Industry Operations and Markets an online Non Credit Course	Dukes NC State University through Coursera	05/04/2020

continued on page 4



71.	2019-2020	Prof. Z. K. Deshmukh	Oil & Gas Industry Operations and Markets	Duke University	05/04/2020
72.	2019-2020	Prof. S. N. Derle	MATLAB and its application in chemical engineering and Computation research at	SVNIT, Surat	17/03/2020
73.	2019-2020	Prof. P. P. Joshi	Teaching Learning Enhancement	Dr. Claire Komives, San Jose State University, California, USA	02/03/2020
74.	2019-2020	Prof. Z. K. Deshmukh	Teaching Learning Enhancement	Dr. Claire Komives, San Jose State University, California, USA	02/03/2020

### Record of ICT usage by faculty

Sr. No.	Name of Faculty	Subject	Topic	Video Link
1	Prof. Dr. V.S. Mane	Mass Transfer	Pressure Swing Adsorption	<a href="https://youtu.be/Xqz3olcf0X0">https://youtu.be/Xqz3olcf0X0</a>
			Operating characteristics of Sieve Trays	<a href="https://youtu.be/jcjLtGVGJ8o">https://youtu.be/jcjLtGVGJ8o</a>
			Membrane Separation Processes	<a href="https://youtu.be/TXm6l2e3Czk">https://youtu.be/TXm6l2e3Czk</a>
			Humidification	<a href="https://youtu.be/5dS_fDCqves">https://youtu.be/5dS_fDCqves</a>
			Minimum liquid to gas ratio for absorber	<a href="https://youtu.be/jdHHiePUK8c">https://youtu.be/jdHHiePUK8c</a>
			Reactive distillation	<a href="https://youtu.be/o4eEtJ2vKq0">https://youtu.be/o4eEtJ2vKq0</a>
			Azeotropic and Extractive Distillation	<a href="https://youtu.be/_vONpyBMx8o">https://youtu.be/_vONpyBMx8o</a>
			Interphase Mass Transfer Material Balance	<a href="https://youtu.be/bHUZLMM8AbU">https://youtu.be/bHUZLMM8AbU</a>
			Diffusion Mass Transfer	<a href="https://youtu.be/dtOx06NuvC8">https://youtu.be/dtOx06NuvC8</a>
			Multicomponent Distillation	<a href="https://youtu.be/RWSR73BVLW8">https://youtu.be/RWSR73BVLW8</a>
			PERT and CPM	<a href="https://youtu.be/MPZcuozQjmU">https://youtu.be/MPZcuozQjmU</a>
			Evaporators	<a href="https://youtu.be/pqlsdaKH8j0">https://youtu.be/pqlsdaKH8j0</a>
2	Prof. V. N. Mawal	Mass Transfer II	Crystallization	<a href="https://youtu.be/hX-90K1qnYY">https://youtu.be/hX-90K1qnYY</a>
			Chemical Engineering Design I	Evaporator; Material and Enthalpy Balance
		Power curve		<a href="https://youtu.be/EGwFCRQLMRM">https://youtu.be/EGwFCRQLMRM</a>
		Decanter Design Aspects; Process Auxiliary Vessel	<a href="https://youtu.be/NEp59bnWAdI">https://youtu.be/NEp59bnWAdI</a>	
3	Dr. S. N. Jain	Transport Phenomena	Transport Phenomena_ Mass transfer	<a href="https://youtu.be/S6ZUCKRG9yE">https://youtu.be/S6ZUCKRG9yE</a>
			Transport Phenomena: Heat Transport	<a href="https://youtu.be/g80OfsqLaw8">https://youtu.be/g80OfsqLaw8</a>
			Transport Phenomena_ Momentum Transfer	<a href="https://youtu.be/-JTYAD_yQGI">https://youtu.be/-JTYAD_yQGI</a>
		Chemical Reaction Engineering I	Analysis and Interpretation of batch reactor data	<a href="https://youtu.be/9Xcia6A0dV4">https://youtu.be/9Xcia6A0dV4</a>
			Product Distribution in Parallel (Multiple) Reactions	<a href="https://youtu.be/LlhbDsUWN1Q">https://youtu.be/LlhbDsUWN1Q</a>
			Types of Multiple Reactions	<a href="https://youtu.be/LFifT8HhxAE">https://youtu.be/LFifT8HhxAE</a>
4	Prof. D.G. Daware	Process Dynamics and control	Advance control system	<a href="https://youtu.be/P2Cw6T-QjAg">https://youtu.be/P2Cw6T-QjAg</a>
			Digital control system	<a href="https://youtu.be/rzljF1o9BHK">https://youtu.be/rzljF1o9BHK</a>
			Non-Interacting system	<a href="https://youtu.be/8KCdoloXprZc">https://youtu.be/8KCdoloXprZc</a>
		Mechanical	Size reduction	<a href="https://studio.youtube.com/video/iUBafS4J_QI/edit">https://studio.youtube.com/video/iUBafS4J_QI/edit</a>
			Sedimentation	<a href="https://youtu.be/sHZkFVRjvFU">https://youtu.be/sHZkFVRjvFU</a>
			Fluidisation	<a href="https://youtu.be/kfrUj2urOaU">https://youtu.be/kfrUj2urOaU</a>
Operation Reaction	Distillation and its type	<a href="https://youtu.be/tlQ_1ME5EXw">https://youtu.be/tlQ_1ME5EXw</a>		
	Reflux ratio and q-line	<a href="https://youtu.be/QpGa7O9hprS">https://youtu.be/QpGa7O9hprS</a>		

5	Prof. S.N. Derle	Chemical Process Technology	Soda ash Production	<a href="https://youtu.be/LuQFrbNb7eg">https://youtu.be/LuQFrbNb7eg</a>
			Phosphoric acid production	<a href="https://www.youtube.com/watch?v=BqEq7W9leQw">https://www.youtube.com/watch?v=BqEq7W9leQw</a>
			Ethanol Production from molasses	<a href="https://ybit.ly/2UCJs4b">https://ybit.ly/2UCJs4b</a>
			Oil Production from oilseeds	<a href="https://youtu.be/LtJOcAoUpnU">https://youtu.be/LtJOcAoUpnU</a>
			Catalytic Cracking	<a href="https://youtu.be/8pLA4CgXUcs">https://youtu.be/8pLA4CgXUcs</a>
		Phenol Production	<a href="https://youtu.be/94iJ2B0DekY">https://youtu.be/94iJ2B0DekY</a>	
		Process Modeling & Simulation	Modeling Bubble Column Reactor	<a href="https://youtu.be/HqrKR3m9k8s">https://youtu.be/HqrKR3m9k8s</a>
			Modeling of Batch Reactor with Heating and Cooling system	<a href="https://youtu.be/h83vjLZbGq8">https://youtu.be/h83vjLZbGq8</a>
			Types of pressure vessel heads	<a href="https://youtu.be/6f9aXJSkHnQh">https://youtu.be/6f9aXJSkHnQh</a>
			Thickness Calculation of pressure vessel heads	<a href="https://youtu.be/1TECnPY8uw">https://youtu.be/1TECnPY8uw</a>
Distillation				
6	Prof. P. P. Joshi	Process Instru. and Control Nanotechnology	UV-Vis Spectroscopy	<a href="https://youtu.be/A3FtLweeABk">https://youtu.be/A3FtLweeABk</a>
			Effect of Nanoparticles on Environment	<a href="https://youtu.be/hQp9WbFhVw">https://youtu.be/hQp9WbFhVw</a>
			Nanotechnology assisted Drug Delivery	<a href="https://youtu.be/QV-zJ7XB1F0">https://youtu.be/QV-zJ7XB1F0</a>
			Nanotechnology - Nanoparticles synthesis methods	<a href="https://youtu.be/1t3KkMg35rj">https://youtu.be/1t3KkMg35rj</a>
		Industrial Organization and Management	Purchase Management	<a href="https://youtu.be/K3PeKyDELcW">https://youtu.be/K3PeKyDELcW</a>
			Introduction to Personnel Management	<a href="https://youtu.be/hZ2vJ18qr3E">https://youtu.be/hZ2vJ18qr3E</a>
			Marketing Management	<a href="https://youtu.be/VH6Zulri_Y">https://youtu.be/VH6Zulri_Y</a>
			Administration and Management	<a href="https://youtu.be/w5WumW6t-FU">https://youtu.be/w5WumW6t-FU</a>
			Import and Export Introduction	<a href="https://youtu.be/6PBWpHbS5fY">https://youtu.be/6PBWpHbS5fY</a>
			Patent Act, 1970	<a href="https://youtu.be/Q8_Fo6xmQXE">https://youtu.be/Q8_Fo6xmQXE</a>
Chemical Engineering Design-II	The introductory part of Plate Column and Packed Column design	<a href="https://youtu.be/xNm2Kg_OdiQ">https://youtu.be/xNm2Kg_OdiQ</a>		
	Packed Column Internals	<a href="https://youtu.be/OZYyvdz4KYU">https://youtu.be/OZYyvdz4KYU</a>		
	Piping Design Pipe Sizing	<a href="https://youtu.be/--R2K972UL0">https://youtu.be/--R2K972UL0</a>		
	Materials for Piping System	<a href="https://youtu.be/kwMLcOIR4U">https://youtu.be/kwMLcOIR4U</a>		
Plant Utilities Introduction	Plant Utilities Introduction	<a href="https://youtu.be/flQ4QYIDohw">https://youtu.be/flQ4QYIDohw</a>		
	Plant Maintenance Introduction	<a href="https://youtu.be/Vv3k6NEOc40">https://youtu.be/Vv3k6NEOc40</a>		
Chemical Process Synthesis	Introduction to Chemical Process Design	<a href="https://youtu.be/UjA32JzEqAs">https://youtu.be/UjA32JzEqAs</a>		
	Heat Exchanger Networks-Introduction	<a href="https://youtu.be/Zl15C1cBEF8">https://youtu.be/Zl15C1cBEF8</a>		
7	Prof. Z.K. Deshmukh	Chemical Process safety	Fault Trees	<a href="https://youtu.be/O9pm3pYt2zQ">https://youtu.be/O9pm3pYt2zQ</a>
			Event Trees	<a href="https://youtu.be/qir_u8McS84">https://youtu.be/qir_u8McS84</a>
			Fire and Explosion Study	<a href="https://youtu.be/QwqHDA8GHml">https://youtu.be/QwqHDA8GHml</a>
			problem based on Dose Vs Response	<a href="https://youtu.be/2YK-6PXUsr4">https://youtu.be/2YK-6PXUsr4</a>
			Dose Vs Response Curve	<a href="https://youtu.be/MbGU-Y_5NYk">https://youtu.be/MbGU-Y_5NYk</a>
			toxicology Test	<a href="https://youtu.be/-eJGtNG4LkK">https://youtu.be/-eJGtNG4LkK</a>
		Petrochemical Engineering	Toxicology 2	<a href="https://youtu.be/-eJGtNG4LkK">https://youtu.be/-eJGtNG4LkK</a>
			Toxicology	<a href="https://youtu.be/Hg2C5MBpd4l">https://youtu.be/Hg2C5MBpd4l</a>
			Safety in Process Industry & Chemical	<a href="https://youtu.be/HKrc_B6g0U4">https://youtu.be/HKrc_B6g0U4</a>
			Nylons	<a href="https://youtu.be/kdq8cEtky4">https://youtu.be/kdq8cEtky4</a>
Chemical Engineering Materials	Valuable Products from Petrochemicals	<a href="https://youtu.be/dnBoz2_r04c">https://youtu.be/dnBoz2_r04c</a>		
	Introduction to Petrochemical Engg.	<a href="https://youtu.be/octtYAD9Ujg">https://youtu.be/octtYAD9Ujg</a>		
	Introduction to Engg. Materials	<a href="https://youtu.be/j5Hml6KN4TI">https://youtu.be/j5Hml6KN4TI</a>		
	Basics of Materials	<a href="https://youtu.be/dZJpPYRh-ls">https://youtu.be/dZJpPYRh-ls</a>		
Hardness Testing methods	<a href="https://youtu.be/T2Lak_dDm1c">https://youtu.be/T2Lak_dDm1c</a>			
Iron Ironcarbide Diagram	<a href="https://youtu.be/_vvgi4Zl7hk">https://youtu.be/_vvgi4Zl7hk</a>			

continued on page 5

8	Prof. T.B. Mahale	Chemical Engineering Thermo dynamics II	Electron microscope	<a href="https://youtu.be/E87VDRvWcrM">https://youtu.be/E87VDRvWcrM</a>
			Introduction to Nano Materials	<a href="https://youtu.be/0wBPxaWYzRY">https://youtu.be/0wBPxaWYzRY</a>
			Fuel Cell	<a href="https://www.youtube.com/watch?v=Fq7dOS7vV-c&amp;list=PLm8XpSDx9ajCjdZyitZxUziziyQwpQE">https://www.youtube.com/watch?v=Fq7dOS7vV-c&amp;list=PLm8XpSDx9ajCjdZyitZxUziziyQwpQE</a>
			Osmosis : Osmotic Pressure	<a href="https://www.youtube.com/watch?v=_D0cjOqtGXc&amp;list=PLm8XpSDx9ajCjdZyitZxUziziyQwpQE&amp;index=2">https://www.youtube.com/watch?v=_D0cjOqtGXc&amp;list=PLm8XpSDx9ajCjdZyitZxUziziyQwpQE&amp;index=2</a>
			VLE Vapour Liquid Equilibrium for Chemical Engineering Thermodynamics II	<a href="https://www.youtube.com/watch?v=nzh-wJ1sf3l&amp;list=PLm8XpSDx9ajCjdZyitZxUziziyQwpQE&amp;index=3">https://www.youtube.com/watch?v=nzh-wJ1sf3l&amp;list=PLm8XpSDx9ajCjdZyitZxUziziyQwpQE&amp;index=3</a>
9	Prof. Varsha Parashar	Process Calculation	Energy Balance	<a href="https://www.youtube.com/watch?v=qNHqajD99t4">https://www.youtube.com/watch?v=qNHqajD99t4</a>
			Stoichiometry and Unit Operations	<a href="https://www.youtube.com/watch?v=-nMzOYwR704">https://www.youtube.com/watch?v=-nMzOYwR704</a>
			Fuels and Combustion	<a href="https://www.youtube.com/watch?v=y00XHoweep0">https://www.youtube.com/watch?v=y00XHoweep0</a>
		Chemical Engineering Thermodynamics II	Vapor-Liquid Equilibrium	<a href="https://www.youtube.com/watch?v=XB_yU1uZ7IM">https://www.youtube.com/watch?v=XB_yU1uZ7IM</a>
		Chemical Engineering Mathematics	Forecast it line ar regression model statistics	<a href="https://www.youtube.com/watch?v=nKf_HYvq7zw">https://www.youtube.com/watch?v=nKf_HYvq7zw</a>
			Example of curve fitting method	<a href="https://studio.youtube.com/video/PpEOcckymi4/edit">https://studio.youtube.com/video/PpEOcckymi4/edit</a>
			Optimization	<a href="https://www.youtube.com/watch?v=mNYI64kH7_g">https://www.youtube.com/watch?v=mNYI64kH7_g</a>

### Schedule and details of Expert Speakers

Sr. No.	Name of Speaker	Designation and Institute	Date	Time
1.	Dr. Sachin Madavgane	Associate Professor and Former Head, VNIT, Nagpur	21 <sup>st</sup> May 2020	10.00 am – 11.00 am
2.	Dr. S. N. Jain	Associate Professor Department of Chemical Engineering KKWIEER, Nashik	21 <sup>st</sup> May 2020	11.00 am – 12.00 pm
3.	Dr. V. S. Mane	Professor & Head Department of Chemical Engineering KKWIEER, Nashik	21 <sup>st</sup> May 2020	01.00 pm- 02.00 pm
4.	Dr. Vimal Chandra Shrivastava	Professor Department of Chemical Engineering IIT Roorkee	22 <sup>nd</sup> May 2020	10.00 am – 11.00 am
5.	Dr Shashank Gaikwad	Scientist NCL Pune	22 <sup>nd</sup> May 2020	11.00 am – 12.00 pm
6.	Prof. G. B. Daware	Assistant Professor KKWIEER, Nashik	22 <sup>nd</sup> May 2020	01.00 pm- 02.00 pm
7.	Dr. Nilesh Mali	Sr. Scientist NCL, Pune	23 <sup>rd</sup> May 2020	10.00 am – 11.00 am
8.	Prof. S. N. Derle	Assistant Professor KKWIEER, Nashik	23 <sup>rd</sup> May 2020	11.00 am – 12.00 pm

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

Prof. Dr. K. N. Nandurkar  
Principal



### Three Days Workshop on "Sustainable Development in Chemical Processes" Organized from 21<sup>st</sup> -23<sup>rd</sup> May 2020

Three Days workshop  
On  
"Sustainable Development in Chemical Processes"  
21<sup>st</sup> - 23<sup>rd</sup> May 2020

**Organized By**  
Chemical Engineering Department  
K K Wagh Institute of Engineering Education & Research,  
Nashik

Time	Speakers on 21 <sup>st</sup> May 2020	Speakers on 22 <sup>nd</sup> May 2020	Speakers on 23 <sup>rd</sup> May 2020
10 am- 11 am	1. Dr. Sachin Madavgane Professor, VNIT, Nagpur	1. Dr. Vimal Chandra Shrivastava Professor, IIT, Roorkee	1. Dr. Nilesh Mali Sr. Scientist, NCL, Pune
11 am-12 pm	2. Dr. S. N. Jain Asst. Professor, Chem Engg.	2. Dr. Shashank Gaikwad Sr. Scientist, NCL, Pune	2. Mr. S. N. Derle Asst. Professor, Chem Engg.
1 pm-2 pm	3. Prof. Dr. V. S. Mane Head, Chem Engg.	3. Mr. G. B. Daware Asst. Professor, Chem Engg.	

Prof. P.P. Joshi  
Co-ordinator

Dr. S. N. Jain  
Prof. S. N. Derle  
Coordinators

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

Dr. K. N. Nandurkar  
Principal