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TECHNICAL NEWS LETTER

July 2020 - December 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	M.Tech,Ph.D Pursuing	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

■ Details of publications by the Faculty

Sr. No.	Name of Staff	Title of Paper	Journal Details	Academic Year
1.	Prof. Dr. G. B. Daware	Adsorption of 3-Aminopyridine (3AP) from aqueous solution using sugarcane bagasse activated carbon (SBAC)	Environmental Technology & Innovation (Elsevier)	2019-2020
2.	Prof. Dr. G. B. Daware	Sonochemical degradation of 3-methylpyridine (3MP) intensified using combination with various oxidants	Ultrasonic Sonochemistry	2019-2020
3.	Prof. Dr. S. N. Jain	Sesame (Sesamumindicum) oil cake—industrial waste biomass for sequestration of Basic Blue 26 from aqueous media	Biomass Conversion and Biorefinery (Springer)	2020-2021

Summary of Expert Talks

Sr. No.	Date	Name of Expert with Designation	Topic of Talk	No. of Students Present
1	10/7/2020	Dr. P. V. Pathak, Rtd. Process Engg., HUL, Mumbai, Member of GEDA, Saligao, Goa	Innovations in Chemical Engineering	101
2	18/07/2020	Mr. Ravindra Jorigal, Manager-Business Development, Asian Academy of Professional Training, Pune	Piping Design Engineering	107
3	23/07/2020	Mr. C. R. Mohikar, Petro-Project Consultant, Nashik	Process,Intelligent process control (Remote operations) & process safety	98
4	05/08/2020	Mr. Shyamshankar Singh, Equinox Software and Services Pvt. Ltd., Electronic Estate, Pune- Satara Road, Pune	Scope of Process Modelling and Simulation	104
5	17/08/2020	Mr. Ghanashyam Patil, Process Engineer, Larsen & Toubro Ltd., Vadodara	Process Design Engineering	100
6	25/08/2020	Pramod Daspute, Energy Auditor and Faculty Trainer, PCRA, Mumbai	Career options in ENERGY AUDIT- A Course PCRA Training Program	59





7	26/08/2020	Siddhesh Bhagwan Jadhav, Lead Process Engineer Burns McDonnell Engineering India Pvt. Ltd., Mumbai	Pressure Relief Valves	52
8	27/08/2020	Dr Yogeshwar Suryawanshi, Asst. Professor Veermata Jijabai Technological Institute, Mumbai	Catalysis	115
9	28/08/2020	Sudhir R Shah, Training Faculty Petroleum Conservation Research Association (PCRA), Bandra(E), Mumbai	Importance of Energy Conservation- ITP from PCRA	62
10	11/09/2020	Saurabh Patle, Consultant at T-Systems ICT India Pvt. Ltd., Pune (PGDM, Indian Institute of Management, Kozhikode, Kerala)	Interpersonal Skills required in Industry	56
11	19/09/2020	Mr. Amol Banwat, Director, Amol Oils Pvt. Ltd., 92/2 Ajantha Road, Chincholi, Jalgaon, Maharashtra	Skills required by chemical engg. in Future	
12	03/10/2020	Dr. K. Elaya Perumal Corrosion and Metallurgical Consultant Unit C-20, Melur Meadows Coimbatore District Tamil Nadu	Corrosion and Material of Construction	176
13	10/10/2020	Mr. Chetan Malode, Process Engineer Alfa Laval, Pune	Overview of Process Engineering	123
14	31/10/2020	Mr. Sachin Deshmukh, Validation Engineer, Synlait Food Nutrition Company, Christchurch, New Zealand	Process Engineering and Design	62

■ 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.			Online STTP on Role of Teacher: To boost Moral values, Ethics in Engineering Education System	AICTE & MVP's KBTCOE, Nashik	17/12/2020
2.		Prof. T. B. Mahale	Online STTP on Role of Teacher: To boost Moral values, Ethics in Engineering Education System	AICTE & MVP's KBTCOE, Nashik	17/12/2020
3.	2020-2021	Prof. Dr. V. S. Mane	Online STTP on Role of Teacher: To boost Moral values, Ethics in Engineering Education System	AICTE & MVP's KBTCOE, Nashik	17/12/2020
4.	2020-2021	Prof. Varsha Parashar	Online STTP on Role of Teacher: To boost Moral values, Ethics in Engineering Education System	AICTE & MVP's KBTCOE, Nashik	17/12/2020
5.	2020-2021	Prof. S. N. Derle	Online STTP on Role of Teacher: To boost Moral values, Ethics in Engineering Education System	AICTE & MVP's KBTCOE, Nashik	17/12/2020
6.	2020-2021	Prof. P. P. Joshi	Online STTP on Role of Teacher: To boost Moral values, Ethics in Engineering Education System	AICTE & MVP's KBTCOE, Nashik	17/12/2020
7.		Prof. P. P. Joshi	Speak English Professionally : In Person , online & On the phone	Georgia Institute of Technology	14/12/2020
8.	2020-2021	Prof. T. B. Mahale	CHEM e Quiz online	Bharati Vidyapeeth College of Engineering, Navi Mumbai	06/11/2020
9.	2020-2021	Prof. Varsha	IEEEXpore Digital Library: Orientation Workshop	IEEE in collaboration with Library	29/10/2020
10.	2020-2021	Prof. Dr. S. N. Jain	Nano Technology : A Makers Course an online Non Credit Course	Dukes NC State University through Coursera	05/10/2020

11.	2020-2021	Prof. Varsha Parashar	attended STTP-II on Industrial Pollution & Control Strategies	Anurag Group of Institutions, Telangana	05/10/2020
12.	2020-2021	Prof. Varsha Parashar	Completed STTP on Sustainable Design of Chemical Process Plants by Using ASPEN PLUS and ASPEN HYSYS Simulating Tools	Vellore Institute of Technology, Vellore, TN	21/09/2020
13.	2020-2021	Prof. P. P. Joshi	Glimpses of IPR and Recent Trends	IPR Cell of KKWIEE&R., Nashik	18/09/202
14.	2020-2021	Prof. Varsha Parashar	attended webinar on Sustainable Industrial Development	Government Engg. College Bharuch	15/09/202
15.	2020-2021	Prof. P. P. Joshi	attended Expert Talk on Submarine an Engineering Marvel	ISTE Students Chapter of KKWIEE&R., Nashik	10/09/202
16.	2020-2021	Prof. Dr. Mane V.S.	Patent Protection for Innovation Driven Educational Institutions	Turnip Innovations in Associations with Frontiers Legals	29/08/202
17.		Prof. T. B. Mahale	Patent Protection for Innovation Driven Educational Institutions	Turnip Innovations in Associations with Frontiers Legals	29/08/202
18.		Prof. Varsha Parashar	Patent Protection for Innovation Driven Educational Institutions	Frontiers Legals	29/08/202
19.		Prof. P. P. Joshi	An overview of CFD and its applications in todays World	AIChE SC Dept. of Chemical Engg. AISSMS college of Engineering, Pune	16/08/202
20.	2020-2021	Prof. T. B. Mahale	Use of LMS, Virtual Teaching and OBE Software for Engineering Colleges	vmedulife Software services	13/08/202
21.		Prof. Varsha Parashar	Farmer Producer Company : New Challenges and Opportunities	K K Wagh College of Agriculture, Nashik	11/08/2020
22.	2020-2021	Prof. Varsha Parashar	Emerging trends in energy, environment and nano materials	Sri Venkateswara College Of Engg, Sriperumbudur, Chennai	24/07/202
23.	2020-2021	Prof. Varsha Parashar	"Sophisticated Analytical Instruments: Principles and Applications to Chemical and Material Sciences (SAIPACMS-2020)"	Sinhgad College of Engineering, Pune.	21/07/202
24.	2020-2021	Prof. Dr. V. S. Mane	Designing for Experience: Applying Design Thinking to Learning Organization	KKWIEER, Nashik	17/07/202
2 5.	2020-2021	Prof. V. N. Mawal	Designing for Experience: Applying Design Thinking to Learning Organization	KKWIEER, Nashik	17/07/202
26.	2020-2021	Prof. Dr. S.N. Jain	Designing for Experience: Applying Design Thinking to Learning Organization	KKWIEER, Nashik	17/07/202
27.	2020-2021	Prof. T. B. Mahale	Designing for Experience: Applying Design Thinking to Learning Organization	KKWIEER, Nashik	17/07/202
28.	2020-2021	Prof. T. B. Mahale	ICT Tools for Collaboration	IQAC-KKWIEER, Nashik	17/07/202
29.	2020-2021	Prof. Varsha Parashar	Designing for Experience: Applying Design Thinking to Learning Organization	KKWIEER, Nashik	17/07/202
30.	2020-2021	Mr. A. N. Pagar	How to write and Publish paper in any 50,000+ Web of science &Scopus Indexed Journals	KKIEE&R., Nashik	10/07/202



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	31.	2020-2021	Prof. P. P. Joshi	Webinar series on Process Safty and Risk MAnagement	Department of Chemical Engg. IIChE, Bangalore	10/07/2020
	32.	2020-2021	Prof. T. B. Mahale	How to write and publish PAper in 50000+ Web of Science & Scopus Indexed Journals Conferences PApers effectivly and effeciently using TYPESET Research Studio	Kusumagraj Central Library of KKWIEER, Nashik	10/07/2020
	33.	2020-2021	Prof. Varsha Parashar	How to write and publish PAper in 50000+ Web of Science & Scopus Indexed Journals Conferences PApers effectivly and effeciently using TYPESET Research Studio	Kusumagraj Central Library of KKWIEER, Nashik	10/07/2020
	34.	2020-2021	Prof. Z. K. Deshmukh	NIRF Ranking System	AVN Institute of Engineering & Technology, Telangana	03/07/2020

■ Record of ICT usag	e by faculty	Youtube	videos
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	Name of Faculty	Subject	Topic	Video Link
	•	Heat Transfer	Costs involved in total product cost for typical Chemical process plant	https://youtu.be/cNMLz3231R4
			Condensation, Dropwise / Filmwise condensation and calculation of Heat Transfer Rate	https://youtu.be/u_FGIBwJQ1I
			Convection, Heat Transfer to fluids without phase change and flow arrangements for Heat Exchangers	https://youtu.be/nml6O7Lyj7U
1	Prof. Dr. V.S. Mane		Convection, Heat Transfer to fluids without phase change and flow arrangements for Heat Exchangers	https://youtu.be/Jd130UJVP4Y
			Factors need to establish before detailed estimate design, Comparison of process and Plant Layout	https://youtu.be/B4latxuxuYs
			Modes of Heat Transfer, Fourier's Law of Heat Conduction and Electrical analogy of Heat Conduction	https://youtu.be/bUYoLHtcccl
			Electrophoresis - Advanced separation technique	https://youtu.be/Syh88_rAhSg
			Types of moisture in Drying operation	https://youtu.be/LGamoIrm9GQ
		Environmental Engineering	Air Pollution; Sources and Types of Air Pollutant	https://youtu.be/cNUhRupp8Xw
			Introduction to Major Environment Acts	https://youtu.be/QzBRkInqXRs
2	Prof. V. N. Mawal		Introduction to Hazardous Waste	https://youtu.be/wJBLZPjRytM
			Wastewater Characteristics	https://youtu.be/3sFqHTPcnFE
			Introduction to Secondary Wastewater Treatment	https://youtu.be/kYU4kWqNd4Q
			Design of fabric Filter in separation of particulate matter from gas stream	https://youtu.be/omDNU21mIHA
		Chemical Reaction	Analysis and Interpretation of batch reactor data	https://youtu.be/9Xcia6AOdV4
3	Dr. S. N.	Engineering I	Product Distribution in Parallel (Multiple) Reactions	https://youtu.be/LlhbDsUWN1Q
	Jain		Types of Multiple Reactions	https://youtu.be/LFifT8HhxAE

		Process	Advance control system	https://youtu.be/P2Cw6T-QjAq
		Dynamics and control	Digital control system	https://youtu.be/rzljF1o9BHk
4	Dr. G. B.	Mechanical Operation	Size reduction	https://studio.youtube.com/vide iUBafS4J_Ql/edit
	Daware	'	Sedimentation	https://youtu.be/sHZkFVRjVfU
			Fluidisation	https://youtu.be/kfrUj2urOaU
		Mass	Distillation and its type	https://youtu.be/tIQ_1ME5EXv
		Transfer	Reflux ratio and q-line	https://youtu.be/QpGa7O9hpRs
		Chemical	Soda ash Production	https://youtu.be/LuQFrbNb7eg
		Process	Phosphoric acid	https://www.youtube.com/watc
		Technology	production	?v=BqEq7W9leQw
			Ethanol Production from molasses	https://bit.ly/2UCJs4b
5	Prof. S. N. Derle		Oil Production from oilseeds	https://youtu.be/LtJOcAoUpnl
			Catalytic Cracking	https://youtu.be/8pLA4CgXUc
			Phenol Production	https://youtu.be/94iJ2B0DekY
6	Prof. P. P.	Process Instrumentation and Control	Pressure Measuring Device	https://youtu.be/ahJEzAHFDl4
	Joshi	Nano- technology	Nanotechnology - Introduction	https://youtu.be/GDGHCqwEdz
		Chemical	Choice of reactor	https://youtu.be/cYQAe-Ga2z
7	Prof. Z.K.	process	Reactor Performance	https://youtu.be/67-hAy42LdU
	Deshmukh	,	Choice of reactor 2	https://youtu.be/GgHh6laZ2yo
	_ Communit	Chemical	Chemical Technology I	https://www.youtube.com/watch
		Technology I	Chemical recimology r	v=J1fYLn1aU1E&list=PLm8X SDx9aljGy- m8lTnVUQrwhNdDEKyp
			Phosphorus Industries1 video	https://www.youtube.com/watch v=j4eE5k1BE4&list=PLm8Xp: Dx9aljGy- m8ITnVUQrwhNdDEKyp& index=2
			Nitrogen Industries	https://www.youtube.com/watch v=2CP6Gg5VOIo&list=PLm8> pSDx9aljGy- m8ITnVUQrwhNdDEKyp& index=3
8	Prof. T.B. Mahale	Petroleum Refining	Transportation of Petroleum Products	https://www.youtube.com/watch v=mmh10KpeRog&list=PLm8X SDx9algcJSBpr4TScz9BVqND2
				HH8
			Bitumen Manufacturing	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X
			Bitumen Manufacturing Hydrocracking Process in Petroleum Refining Process	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=vLCAtaDQqPo&list=PLm8
			Hydrocracking Process in Petroleum Refining	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDQgPo&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=zTH86WECZvQ&list=PLm8X
			Hydrocracking Process in Petroleum Refining Process	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDQgPo&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=zTH86WECZvQ&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=4 https://www.youtube.com/watch v=_g8xfsbMGiw&list=PLm8X
		Principle of Design	Hydrocracking Process in Petroleum Refining Process Desalting of Crude Oil Petroleum refining process with block	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDQgPo&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=zTH86WECZvQ&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=4 https://www.youtube.com/watch v=_g8xfsbMGiw&list=PLm8X SDx9algcJSBpr4TScz9BVqN
			Hydrocracking Process in Petroleum Refining Process Desalting of Crude Oil Petroleum refining process with block diagram Fundamentals of	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDOgPo&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=TH86WECZvQ&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=4 https://www.youtube.com/watch v=_g&xfsbMGiw&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=5 https://www.youtube.com/watch v=hkHGpggnU58&t=15s https://www.youtube.com/watch v=5PfpLhwNH8A&t=157s https://www.youtube.com/watch
		Design Chemical	Hydrocracking Process in Petroleum Refining Process Desalting of Crude Oil Petroleum refining process with block diagram Fundamentals of Preliminary Design Kinetics of	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDQgPo&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=ZTH86WECZvQ&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=4 https://www.youtube.com/watch v=_g8xfsbMGiw&list=PLm8Xf SDx9algcJSBpr4TScz9BVqN 2HH8&index=5 https://www.youtube.com/watch v=hkHGpggnU58&t=15s https://www.youtube.com/watch v=5PfpLhwNH8A&t=157s https://www.youtube.com/watch v=5PfpLhwNH8A&t=157s
8	Prof. Varsha Parashar	Design Chemical Reaction	Hydrocracking Process in Petroleum Refining Process Desalting of Crude Oil Petroleum refining process with block diagram Fundamentals of Preliminary Design Kinetics of Homogeneous Reactions Reactor Design Classification of energy sources, commercial and non-commercial energy,	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDQgPo&list=PLm8V SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=zTH86WECZvQ&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=4 https://www.youtube.com/watch v=g8xfsbMGiw&list=PLm8X; SDx9algcJSBpr4TScz9BVqN 2HH8&index=5 https://www.youtube.com/watch v=hkHGpggnU58&t=15s https://www.youtube.com/watch v=5PfpLhwNH8A&t=157s https://www.youtube.com/watch v=5PfpLhwNH8A&t=157s https://www.youtube.com/watch v=lKfvifpP2ZM https://www.youtube.com/watch v=lKfvifpP2ZM
8	Varsha	Chemical Reaction Engineering I Energy Environment Health and	Hydrocracking Process in Petroleum Refining Process Desalting of Crude Oil Petroleum refining process with block diagram Fundamentals of Preliminary Design Kinetics of Homogeneous Reactions Reactor Design Classification of energy sources, commercial and	https://www.youtube.com/watch v=0et4BTmc5xU&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=2 https://www.youtube.com/watch v=yLCAtaDQgPo&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=3 https://www.youtube.com/watch v=zTH86WECZvQ&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=4 https://www.youtube.com/watch v= g8xfsbMGiw&list=PLm8X SDx9algcJSBpr4TScz9BVqN 2HH8&index=5 https://www.youtube.com/watch v=hkHGpggnU58&t=15s https://www.youtube.com/watch v=5fpLhwNH8A&t=157s https://www.youtube.com/watch v=5fpLww.youtube.com/watch v=5fyl-www.youtube.com/watch v=6tZlibHP8F8 https://www.youtube.com/watch v=6tZlibHP8F8

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

Prof. Dr. K. N. Nandurkar Principal