



SSBT's College of Engineering & Technology, Bambhori, Jalgaon
(Included under section 2 (f) and 12(B) of the UGC Act, 1956)
Grade B ++ (2.91) NAAC Accredited
Department of Chemical Engineering

MOMENTUM

News Letter Vol. No. XIX Jan 2021– June 2021

VISION

Today we carry the flame of quality education, knowledge and progressive technology for global societal development; tomorrow the flame will glow even brighter.

MISSION

To provide conducive environment for preparing competent, value added and patriotic chemical engineers of integrity of par excellence to meet global standards for societal development.

Salient Features of Chemical Engineering Programme:

- ♦ *Experienced, Qualified & Research Oriented Faculty*
- ♦ *Program Accredited Thrice by NBA*
- ♦ *Modern and Well Equipped Laboratories*
- ♦ *Excellent Results*
- ♦ *Research Facilities*
- ♦ *Departmental Library with Internet Facility*
- ♦ *Long Tradition of Gold Medalist in University Exams*
- ♦ *ASPEN HYSYS Software*
- ♦ *Consultancy for Chemical Engineering & Allied Processes*
- ♦ *Teacher Guardian Scheme*
- ♦ *Excellent Self-Study Material*

About the Department:

The Chemical Engineering Department has got the NBA Accreditation by National Board of Accreditation (NBA) Committee constituted under AICTE with effect from 15-02-2005 for 3 Years and re-Accredited for 5 Years from 19/08/2008 and again re-Accredited for 2 years with effect from 01/07/2014.

Department of chemical engineering came into existence in 1996 with starting of B.E. programme in Chemical Engineering. The department is having highly qualified and experienced faculty and modern infrastructural facilities. The department is engaged in teaching and research in chemical engineering & related areas.

This department caters to needs of B.E. Chemical engineering course as prescribed by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (M.S.). All the laboratories are spacious & equipped with modern & sophisticated equipments, machinery and softwares.

Programme Educational Objectives (PEOs) of Chemical Engineering Department

1. Core Knowledge

To provide the quality education in the field of basic sciences, mathematics, chemical engineering and allied technologies to pursue higher education and research for global socioeconomic development.

2. Employment

To motivate the students for gaining value added knowledge and real world exposure by industrial training, visits and workshops.

3. Professional Competency

To build a chemical engineer of integrity and par excellence with professional and ethical values.

Programme Outcomes (POs) of Chemical Engineering Department

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs) of Chemical Engineering Department

PSO1 How are you able to apply basic principles of science, mathematics and chemical engineering skills in interpreting and analyzing experimental data for societal development?

PSO2 How are you able to design and provide solutions to problems in the development of chemical and allied industries?

PSO3 How are you able to display multidisciplinary approach for providing techno-economical and eco-friendly solutions?

Activities Conducted by Chemical Engineering Department in Academic Year 2020-21 (Term-II)

DATE	EVENT NAME	EVENT DESCRIPTION
15/06/2021, Zoom Platform	Webinar on "Know Your Journey as a Chemical/ Process Engineer"	Mr. Kiran R. Nikam (Co-Founder and Director at EngiMates Resources and Energy Pvt. Ltd. & Program Director at ViGyan Technologies) with overall 20+years of rich experience in Oil & Gas and Refinery industries discussed the opportunities in the field of Oil and Natural gas and guided students on various industrial software's and their use in the Chemical Process Industry.
16/06/2021, Microsoft Teams Platform	Expert Lecture "Refinery Operation"	Shri Umesh Raut (Chief Manager- Refinery Operation, BPCL Mumbai) & Shri Suryakant Markal (Manager- Aromatics, BPCL Mumbai) The Distinguished Experts given a complete Insight of Petroleum Refinery Process and Details about Processing and Handling of Raw Material, Intermediate and Finished Products with safety precautions to be practiced.
19/06/2021, Microsoft Teams Platform	Research Lecture on "Simple Interventions for Providing Safe Drinking Water to Indian Households "	Dr.Shankar Kausley (Senior Scientist, TCS Research, Pune) explained how research develops critical thinking skills, knowledge and learning and well-versed students using a case study of Tata Swach® - Nanotech Water Purifier being one of the inventors.
25-06-2021	Milestone 2k21 (Online mode)	Student's Technical Paper Presentation
25-06-2021	Technical Event (Online mode)	Process Plant Lay-Out
26-06-2021, Zoom Platform	Alumni Lecture on "CV: The first impression an employer will have of you"	Nishant Vyas (Research Associate, Lupin Ltd Pune). The key points discussed in the lecture are: <ul style="list-style-type: none"> ◆ Insights of resume preparation. ◆ How to prepare presentable resume for fresher/Passout engineers. ◆ Common mistakes to be avoided while resume preparation. ◆ Use of key word in resume. ◆ Key point to be remembered. ◆ Q&A session.

S.E. Chemical Engineering Top Ten Students (In KBCNMU Exams for Academic Year 2020-21)

Merit No.	Name of the Student	CGPA
1	Mansuri Nilofar Parveen	9.80
2	Patil Suyog Ravindra	9.75
3	Deshpande Amit Manoj	9.73
4	Rajput Ashitosh Rajendra	9.73
5	Mude Aachal Prabhakar Rao	9.70
6	Thakur Amolkumar Rajendra	9.64
7	Girase Hemantsing Pravinsing	9.44
8	Bhadane Vivek Fakira	9.43
9	Kinage Vaibhav Gajanan	9.32
10	Patil Janhavi Ashok	9.26

T.E. Chemical Engineering Top Ten Students (In KBCNMU Exams for Academic Year 2020-21)

Merit No.	Name of the Student	CGPA
1	Jadhav Manas Jitendrasing	9.31
2	Patil Jivanlal Mahadu	9.24
3	Patil Prasad Jaywantrao	9.14
4	More Uddesh Ratan	9.07
5	Tembhurne Sugat Mulchand	9.06
6	Chaudhari Jayesh Laxman	8.73
7	Badgujar Sandip Ishwar	8.60
8	Bari Gaurav Ganesh	8.59
9	Patil Kranti Dipak	8.58
10	Nikam Revati Vasant	8.57

B.E. Chemical Engineering Top Ten Students (In KBCNMU Exams for Academic Year 2020-21)

Merit No.	Name of the Student	CGPA
1	Patil Harshal Sunil	9.02
2	Patil Vaibhav Ravindra	8.80
3	Baniya Sakshi Sadhashiv	8.78
4	Chankapure Abhishek Shyamdeo	8.64
5	Shaikh Iram Javed	8.64
6	Bharambe Prajakta Dilip	8.61
7	Kale Ajay Anil	8.49
8	Tejane Roshan Pandurangaji	8.36
9	Jadhav Prajakta Kishor	8.31
10	Shastri Nimish Nitin	8.00

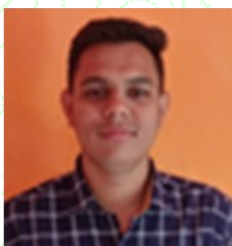
Milestone 2K21

Event	Participants	Prize
Paper Presentation	Harshal Sunil Patil, Abhishek Shyamdeo Chankapure, Vaibhav Ravindra Patil	First Prize
	Uddesh Ratan More, Prasad Jayawantrao Patil, Gaurav Ganesh Bari	Second Prize
	Nilofar Parveen Mansuri, Suyog Patil, Vivek Bhadane	Third Prize
Poster Presentation	Amolkumar Rajendra Thakur, Aachal Prabhakar Mude, Kedar Sunil Patil	First Prize
	Narendra Dnyaneshwar Bhadane	Second prize
Process Plant Layout	Kranti Dipak Patil, Kanchan Rajaram Patil	First Prize
	Deesha Jayant Chawda	Second Prize
	Kuldipsing Mahendrasing Patil , Sumit Kailas Dasre	Third Prize

Placements 2020-21



Harshal Patil
Unimark Remedies Ltd. Vapi



Vaibhav Patil
Unimark Remedies Ltd. Vapi



Abhishek Chankapure
Unimark Remedies Ltd. Vapi



Arbaz Khan
Unimark Remedies Ltd. Vapi



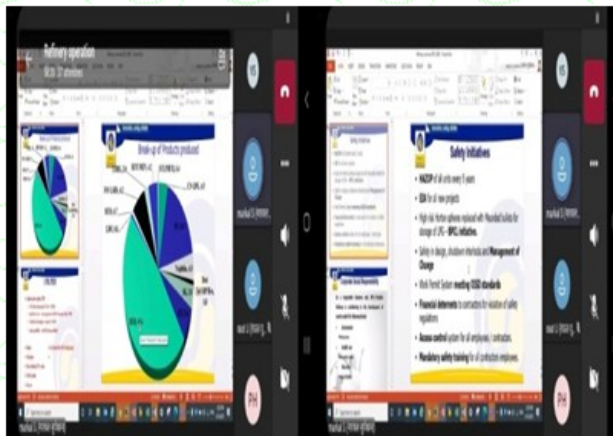
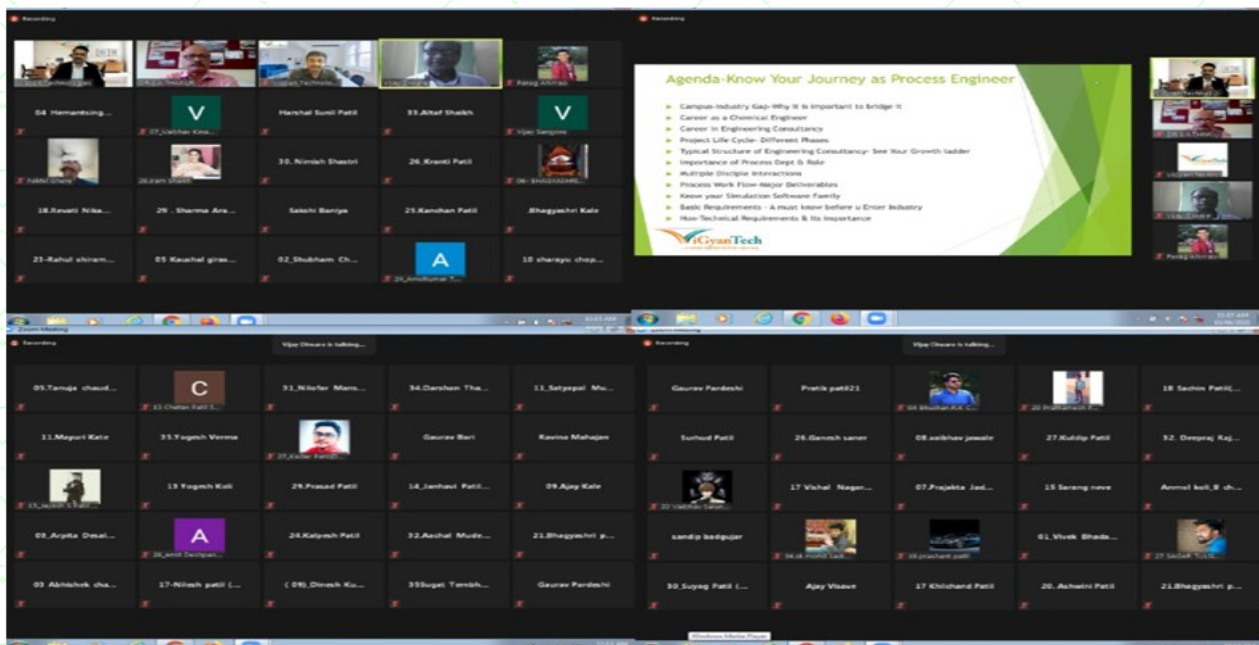
Yograj Tayde
Unimark Remedies Ltd. Vapi



Iram Javed Shaikh
Resistotech Industries Ltd.
Nashik

Congratulations!

Online Webinar Snaps



The Roles and Responsibilities of Chemical Engineers

Chemical Engineers are considered to be "Universal Engineers." They use chemistry, physics, biology, microbiology, biochemistry and mathematics to design programs, machines and processes that turn raw materials into valuable products for human use and for use in the environment.

Chemical Engineers play a very important role in making modern society. Many Chemical Engineers design and operate large-scale and complex chemical production facilities to supplying diverse chemical products to society. In performing these functions, a Chemical Engineer will likely assume a number of roles during a career.

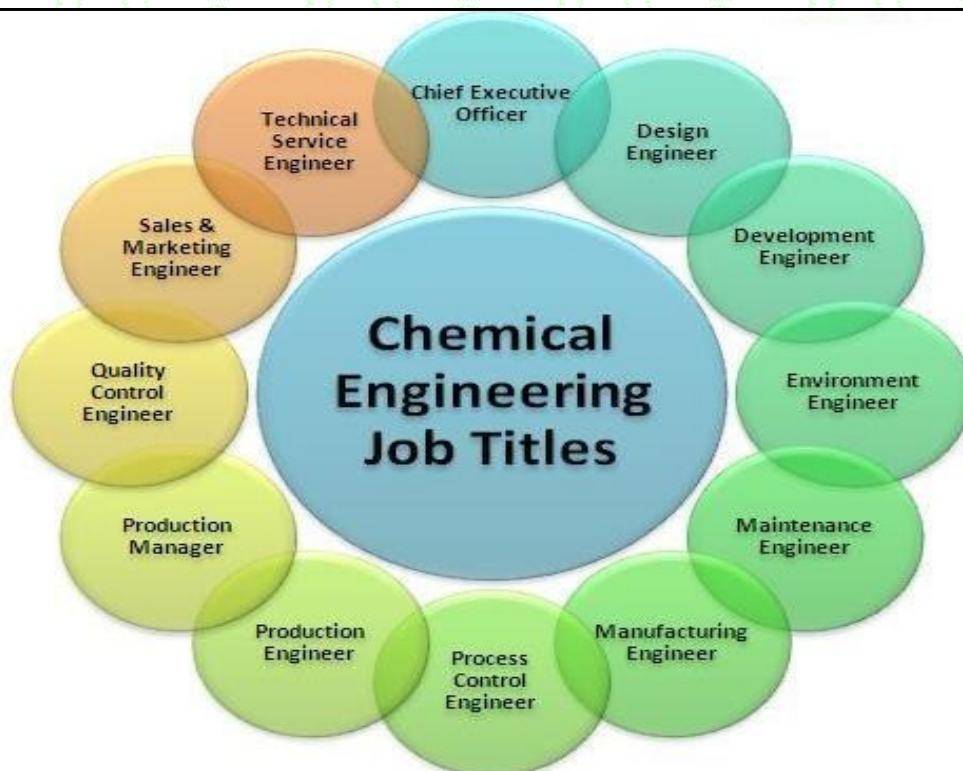
The Chemical Engineer is involved in raw materials extraction, intermediate materials processing, or production of pure chemical substances; in each activity, the minimization and management of waste stream will have important economic and environmental consequences.

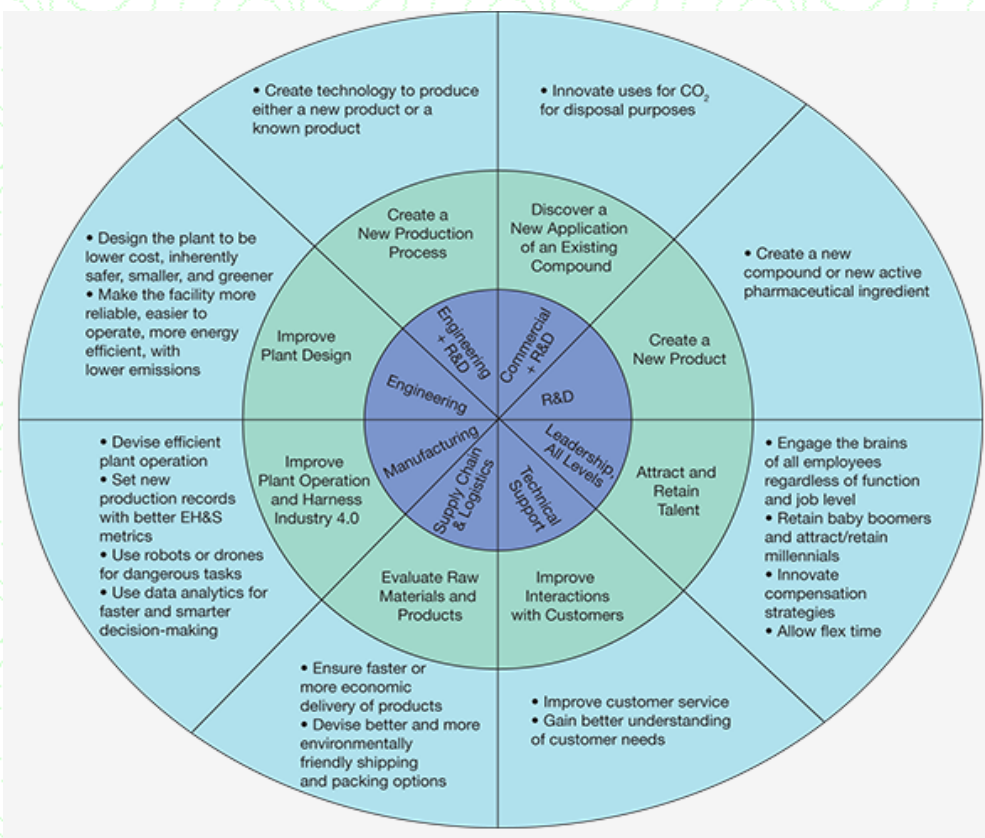
Chemical Engineers are involved in the production of bulk and specialty chemicals, petrochemicals, integrated circuits, pulp and paper, consumer products, minerals, and pharmaceuticals.

Chemical Engineers also find employment in research, consulting organizations, and educational activities. The Engineer may perform functions such as process and production engineering, process design, process control, technical sales and marketing, community relations, and management. As Chemical Engineers assume such diverse roles, it is increasingly important that they should be aware of their responsibilities to the general public, colleagues and employers, the environment, and also to their profession.

One of the central role of Chemical Engineers is to design and operate chemical processes yielding chemical products that meet customer specifications and that are profitable, another important role is to maintain safe conditions for operating personnel and for residents in the immediate vicinity of a production facility.

Finally, chemical process designs need to be protective of the environment and of human health. Environmental issues must be considered not only within the context of chemical production but also during other stages of a chemical's life cycle, such as transportation, the use of chemicals by customers, recycling activities, and ultimate disposal.





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