



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. XVII, Jan 2020– June 2020

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



Winners of the department under Swacchata Pakhwada competitions

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 2019-20 (Term-II)

DATE	EVENT NAME	EVENT DESCRIPTION
04.07 & 11 Jan.2020	Visit of Engineering Aspirants	Educational Tour of 12th Science students from different junior colleges & institutes of Jalgaon region to Chemical Engineering Department
27/01/2020	Industrial Lecture	Alumni Mr. Shubham Koli delivered lecture on " Polymer & Sulfones Business in Retail" for students of Chemical Engineering
01/02/2020 To 15/02/2020	Training Course	Mr. V.P.Sangore and Dr.N.Y.Ghare conducted training course on " Instrumentation & Instrumental Techniques of Analysis " for S.E. & T.E. Engineering Students of college
07/02/2020	Chem-O-Philia	Event organized by IIT, Bombay, conducted for the students of Chemical & Biotechnology Engineering
14/02/2020	Alumni Lecture	Alumni Ms. Bhagyashri Khetre delivered lecture on " Goal Achievement for Chemical Engineers" for students of Chemical Engineering
14/02/2020	Industrial Lecture	Alumni Mr. Mohammad Afsar delivered lecture on "Use of Nitration in Chemical Process Industries " for students of Chemical Engineering
04/03/2020	National Safety Day	Celebrated National Safety Day on the theme "Safety in chemical laboratories & in chemical industries"
07/03/2020	Milestone 2K20	State Level Students Paper Presentation
07/03/2020	Brain Teaser	Brain storming aptitude & quiz competition for the engineering students of the region
08/03/2020	Industrial Lecture	Mr. Sandip Kabra, Director, Suhans Chemicals Pvt. Ltd. Jalgaon delivered lecture on" Experience of existing Entrepreneur & Entrepreneurship Opportunities"

IIT Event "Chem-O-Philia"



Chem-O-Philia, India's largest intercollegiate chemical engineering quiz competition was organised by IIT, Bombay. The zonal round of the event was conducted at 30+ centres across the country on Feb.07,2020, including Department of Chemical Engineering, SSBT's COET, Bambhori, Jalgaon.

The quiz competition was conducted with a unique format, with questions that are challenging one, and the problems was aimed to test one's chemical engineering concepts and their application in practical and hypothetical situations.

At Department of Chemical Engineering, SSBT's COET, Bambhori, Jalgaon center, 55 teams with 74 participants form Chemical Engineering & Biotechnology participated in the event with an aim to test their knowledge about chemical engineering concepts and problem solving ability.

The results of the event was declared by IIT, Bombay and the winners was listed as:

*1st-Ajay Wadekar, Sanket Khobragade

*2nd-Gaurav Ganesh Bari

*3rd-Megha Firke

These students was selected for semi finals which was scheduled to be held at IIT, Bombay between 14-15 March, but unfortunately the further event was not conducted due to the covid era.



T.E. Chemical Engineering Top Ten Students (In KBCNMU Exams for Academic Year 2019-20)

Merit No.	Name of the Student	CGPA
1	Patil Harshal Sunil	8.81
2	Patil Vaibhav Ravindra	8.55
3	Baniya Sakshi Sadhashiv	8.52
4	Bharambe Prajakta Dilip	8.30
	Chankapure Abhishek Shyamdeo	8.30
5	Shaikh Iram Javed	8.18
6	Kale Ajay Anil	8.15
7	Tejane Roshan Pandurangji	7.98
8	Jadhav Prajakta Kishor	7.92
9	Kate Mayuri Sanjay	7.51
	Shastri Nimish Nitin	7.51
10	Sharma Arati Sanjay	7.36

S.E. Chemical Engineering Top Ten Students (In KBCNMU Exams for Academic Year 2019-20)

Merit No.	Name of the Student	CGPA
1	Jadhav Manas Jitendrasing	9.09
2	Patil Jivanlal Mahadu	8.99
3	Patil Prasad Jaywantrao	8.81
4	More Uddesh Ratan	8.71
5	Tembhurne Sugat Mulchand	8.70
6	Badgujar Sandip Ishwar	8.03
7	Bari Gaurav Ganesh	8.01
8	Patil Kranti Dipak	7.97
9	Nikam Revati Vasant	7.95
10	Gupta Srijan Rajkumar	7.79

Training Course

A Two Weeks training course on “ Instrumentation & Instrumental Techniques of Analysis” was conducted by Shri.V.P.Sangore and Dr. N.Y.Ghare, Assistant Professor, Chemical Engineering Department for the students of SSBT’s College of Engineering & Technology. Thirty two students from various engineering disciplines registered for the training course which was held between Feb.01 to 15, 2020.

The course was designed to introduce basics of instrumentation and principle, working and applications of important instruments used in process industries for monitoring and controlling parameters such as pressure, temperature, flow rate, pH, conductance, concentration etc. Apart from the theoretical knowledge, the students are also undergone hands-on training on instruments such as bi-metallic thermometer, thermocouple, pH meter, conductivity



Milestone 2k20

Student's technical paper presentation "Milestone 2k20" was organized on March 07,2020. Students of the department participated in the event and presented their papers on various topics, through power point presentations, before the judge & audience. The Judge for the event were Shri.U.V.Mahajan, Director, Kabatech Industries, Jalgaon & Dr.S.A.Thakur, T&P Officer, evaluated the papers on criteria's including innovative idea and presentation skills.

Title of Paper	Name of Author/s	Result
Recovery of CaCl ₂ from Waste Chcken Egg Shells.	Harshal Patil, Abhishek Chankapure Vaibhav Patil	First Prize
Electro Active Polymers	Manas Jadhav Prasad Patil	Second Prize
Pyrolysis of Waste Plastic	Yogesh Varma Roshan Tejne Darshan Thakare	Third Prize



Brain Teaser

Brain Teaser event was organized on March 07,2020. Students from various colleges and disciplines participated in the event with enthusiasm, in single and two members team. The event conducted in two rounds. First round is of general knowledge aptitude test of twenty questions to be solved in twenty minutes, which also had negative marking system for wrong answers. Shortlisted teams from round one was eligible for second round. Second round was buzzer round conducted in audio-visual mode. Winners of Brain Teaser events are:

- 1.Prakash Bangar & Harshal Ahire: First Prize
2. Tushar Marathe: Second Prize



Placements 2019-20

Congratulations to the Students of B.E.Chemical Engineering (2019-2020 Batch) Selected as Trainee Engineer

1	Mr. Akash Ajay Patil	Gujarat Ambuja Exports Ltd.Chalisingaon, Dist. Jalgaon
2	Mr. Anand Jaykumar Pol	Gujarat Ambuja Exports Ltd.Chalisingaon, Dist. Jalgaon
3	Mr. Shubham Rajendra Patil	Gujarat Ambuja Exports Ltd.Chalisingaon, Dist. Jalgaon
4	Mr. Shubham Dyaneshwar Patil	Dikora Bulk Drug Private Limited, Bhusaval, Dist: Jalgaon
5	Mr.Jayesh Ashok Bharambe	Dikora Bulk Drug Private Limited, Bhusaval, Dist: Jalgaon

Event Snaps

National Safety Day



Industrial/Alumni Lecture



Parent's Meet



Traditional Day



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.

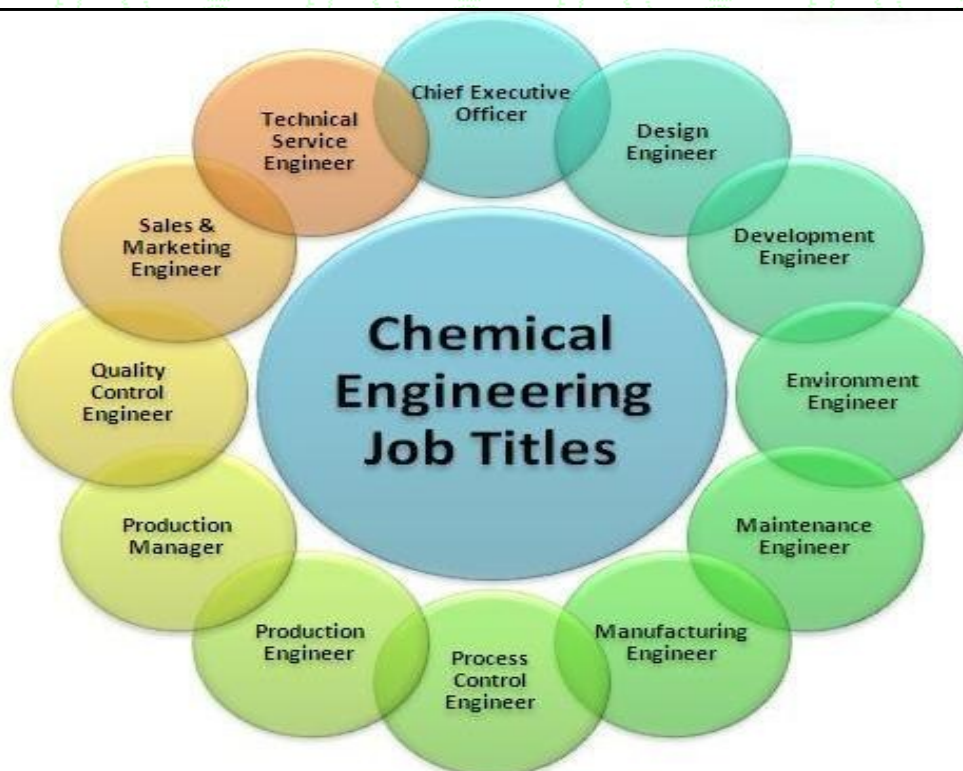
The Chemical Engineer is involved in raw materials extraction, intermediate materials processing, or production of pure chemical substances; in each activity, the minimization and management of waste stream will have important economic and environmental consequences.

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.





Miss. Mayuri Yelne (B.E.Chemical Engineering, 2018-19) was awarded Gold Medal for University Topper in Chemical Engineering discipline at the Auspicious hands of Honorable Vice Chancellor Prof.P.P.Patil, Kavayitri Bahinabai Chaudhari North Maharashtra University, in 28th Convocation Ceremony held on Jan 04, 2020.

News Letter Committee

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