



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.11, Jan 2017– June 2017

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



FEAST 2016-17 Lectures Series

Objectives of the Institution

- ◆ To impart innovative teaching and learning
- ◆ To provide quality education with futuristic trends in engineering and technology
- ◆ To develop the institute as a research center for academic excellence
- ◆ To ensure continual improvement in quality management system
- ◆ To inculcate social values, patriotism and professional ethics among the students

Program Educational Objectives (PEO's) 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 socio-economic 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.

Program Outcomes (PO's) of Chemical Engineering Department

- ◆ An ability to execute knowledge of basic science, mathematics and engineering.
- ◆ An ability to display the research by designing, conducting, interpreting and analyzing experimental data for preparing reports.
- ◆ An ability to demonstrate the caliber of product designing according to the standards.
- ◆ An understanding to demonstrate the ability to perform the task with multidisciplinary teams.
- ◆ An ability to identify, formulate, design and provide the solution to various chemical engineering problems.
- ◆ An ability to demonstrate the understanding of professional and ethical responsibilities.
- ◆ An ability to communicate formally and informally.
- ◆ An ability of designing the product to meet economical and societal requirements.
- ◆ A commitment to reveal self education, social values by providing the services to society through lifelong learning.
- ◆ An ability to understand the environmental issues and to provide solutions for green and clean technologies.
- ◆ An ability to demonstrate the computational skills using engineering software.

Conferences/Workshops/ Expert Lectures etc. organized by the Department

DATE	EVENT NAME	EVENT DESCRIPTION
16/01/2017	Industrial Lecture	Topic : Use of Softwares in Chemical Industries by Miss Pallavi Kude from Accenture, Hyderabad
22/02/2017	Seminar	A seminar on coaching in Chemical Engineering for GATE/PSU/IFS and other related examinations was conducted by GATEWAY INSTITUTE ,Pune
04/03/2017	Industrial Lecture	Topic: Current Status of Perfumery Industry by Shri. M.G.Aswar from Mourya Global Pvt. Ltd, Jalgaon
14/03/2017 To 18/03/2017	Workshop for S.E.	Title: Instrumental Analysis And Techniques In Chemical Engineering Conducted by Shri.V.P.Sangore & Shri.V.V.Mahajan
14/03/2017 To 18/03/2017	Workshop for T.E.	Title: Industrial Safety Conducted by Dr.V.R.Diware & Dr.S.A.Thakur
14/03/2017 To 18/03/2017	Workshop for B.E.	Title: Chemical Engineering Simulation Software Conducted by: Shri.N.Y.Ghare & Miss P.N.Bhautik
15/03/2017	Industrial Lecture	Topic: Cement Industry: Future & Challenges by Shri. Upendra Tripathi, Manager, Orient Cement Ltd., Jalgaon
20/03/2017	Industrial Lecture	Topic:-Oil Industry: Current Challenges in Oil Industry by Shri Vinod Agrawal, Director, S.K.Oil Industries Ltd. Jalgaon



B.E. Chemical Engineering Results (Academic Year 2016-17)

Class	No. of Students Appeared	No. of Students Passed	% of Passing
B.E. Chemical	37	35	94.59

List of Top TEN Students (College Level and University Level):

Merit No.	Name of the Student	CGPA
1	SARODE URVASHI KISHOR	9.08
2	PAWADE SUSHILA NILKANTH	8.93
3	DHALE AKSHATA HARIDAS	8.69
4	SHARMA KHUSHBU GHANASHYAM	8.50
5	GUJRE NAYANA BHAGIRATH	8.36
6	MESHARAM SUMIT SUDAM	8.34
7	SARODE RAVINA VILAS	8.28
8	JAYBHAYE MAROTI MADHAVRAO CHETAN KHARCHE F/N YASHWANT KHARCHE	8.01
9	MALI SWATI NARAYAN	7.93
10	MEHTA AMEESHA RAJENDRA	7.48

T.E. Chemical Engineering Top Three Students (Academic Year 2016-17)

Merit No.	Name of the Student	CGPA
1	JADHAV MAHESHWAR VAMAN	8.00
2	KOLI SHUBHAM TUKARAM	7.99
3	NYATI NIKHIL VINOD	7.86

S.E. Chemical Engineering Top Three Students (Academic Year 2016-17)

Merit No.	Name of the Student	CGPA
1	YELNE MAYURI VIJAYRAO	8.65
2	CHAVAN JIVAN SURESH	8.10
3	SHRIKHANDE PRATHAMESH PRABHAKAR	7.89

Students Projects Received Grants

- ◆ Received Financial Assistance of Rs.1,00,000/- from IEDC, Department of Science and Technology, New Delhi for Research Project entitled "Fabrication & Study of Concentric Pipe Heat Exchanger", year 2016-17 by Chetan Kharche, Sushila Pawade and Akshata Dhale B.E. final Students. (Completed)
- ◆ Received Financial Assistance of Rs.25,000/- from SSBT's COET, Bambhori, Jalgaon for Research Project entitled "Fabrication of Horizontal Tube Evaporator", year 2016-17 by Aijaz Husain, Kiran Patil, Kalpesh Patil and Kamlesh Patil B.E. final Students. (Completed)

Teacher Achievement

Research proposal of Dr.S.A..Thakur, Assistant Professor, Chemical Engineering Department was approved and sanctioned for total grant of Rs.80,000/- by North Maharashtra University, under "Vice Chancellor Research Motivation Scheme (VCRMS) for the period of two years.
Project Title: "Treatment of sewage waste water and purification of biogas using Algae"

Achievements



Miss. Pooja Deore awarded Gold Medal by North Maharashtra University in Convocation Ceremony which was held on 08/04/2017 for securing First Position in Chemical Engineering for the academic year 2015-16.



Miss. Sushila Pawade of B.E.Chemical Engineering received “Best Outgoing Student” Award at Annual Gathering Vasant Utsav 2K17



- ◆ Mayur Sonawane represented NMU at National Level in Archery at Patiala (Punjab)

Placements (2016-17)

Name of the Student	Name of Company
Swapnil Patil	Macleods Pharma Ltd. Sarigam
Pankaj Pachpande	Gujarat Ambuja Exports Ltd. Chalisgaon
Sagar More	Gujarat Ambuja Exports Ltd. Chalisgaon
Sagar Patil	Gujarat Ambuja Exports Ltd. Chalisgaon
Bhushan Patil	Acme Sujan Chemicals Pvt. Ltd. Jalgaon
Ameesha Mehta	Acme Sujan Chemicals Pvt. Ltd. Jalgaon
Chetan Kharche	Ace Engineering Solutions ,Vadodara



FEAST 2016-17

To impart knowledge, skill, confidence and groom the budding engineers and administrators to take any challenges and build strong nation, every year the college organizes a lecture series “FEAST” (Festival of Engineers, Administrators, Scientists, and Technocrats), on the theme of Engineering, Technology, Management, Science and Society. This year the event was organized on Jan.12-14,2017. Faculty member of our department Mr.V.P.Sangore was the coordinator of the institute level event. Our another faculty member Dr.S.A.Thakur was the member of organizing committee. Eminent Resource Persons who are visited the institute & motivate the students and stakeholders on various topics are...

- ◆ Shri Subhash Talekar (General Secretary, Mumbai Dabbewala Association, Mumbai)
Topic: *डब्बेवालों की कहानी, डब्बेवालों की जुबानी*
- ◆ Shri. Avinash Dharmadhikari (Founder Director, Chanakya Mandal, Pune)
Topic: **Creativity and Excellence**
- ◆ Krishi Bhushan Dr. Sudhir Bhongale (Renowned Water Expert)
Topic: *जलनीती व शास्वत ग्रामीण विकास*
- ◆ Shri B. V. Rao, 'ndc' (Eminent Scientist, Associate Director, NSTL, Vishakhapattanam)
Topic: **Missile Technology Progress in India**
- ◆ Dr. S. K. Mahajan (Director, Technical Education, Maharashtra State)
Topic: **Transforming India through Technical Education**
- ◆ Mrs. Auradha Prabhudesai (Founder, Lakshya Foundation)
Topic: *ऋणानुबंध सैनिकांशी- कारगील शौर्य गाथा*



Faculty Publications

Dr. K.S.Wani	Curriculum of Sanitary Engineering in Universities of India: Vis-À-Vis Requirements of Modern India	American Journal of Environmental Engineering 2016, 6(6): 184-187 DOI: 10.5923/j.ajee.20160606.04.p-ISSN: 2166-4633, e-ISSN: 2166-465X.
Dr. K.S.Wani	Performance Prediction of ZIF-8/Polymer Blend Mixed Matrix Membrane by Permeation Models for CO ₂ /CH ₄ Separation	International Journal of ChemTech Research CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.9, No.08 pp 211-221, 2016
Dr. K.S.Wani	Kinetic Study on Synthesis of Alkanolamides of Fatty Acids of Mangokernel Oil (Mangifera Indica Linn)	International Journal of Engineering Development and Research(IJEDR) Volume 4, Issue 4 ISSN: 2321-9939,PP 444- 450
Dr. K.S.Wani	Acid Orange 7 Dye Degradation Using Combined Acoustic Cavitation with Fenton and Photo Fenton Processes	International Journal of Engineering Science and Computing, DOI 10.4010/2016.782 ISSN 2321 3361 © 2016 IJESC PP 3379-3386
Dr. V. R. Diware	Experimental Investigation on Thermoelectric Generator System for Performance Enhancement	International Journal of Development Research Vol. 06, Issue, 12, pp.10582-10586, December, 2016
Dr.V.R.Diware	Review of Dimple Tube Double Pipe Heat Exchanger Design	PRATIBHA: International Journal of Science, Spirituality, Business And Technology (IJSSBT), Vol. 5, No. 1, December 2016 ISSN (Print) 2277-7261, PP.38-41.
Dr. S.A. Thakur	Performance of Evaporators and Various Parameters: A Review	PRATIBHA: International Journal of Science, Spirituality, Business And Technology (IJSSBT), Vol. 5, No. 1, December 2016 ISSN (Print) 2277-7261, PP 34-37

MoU Details 2017-18

1. Krishi Vigyan Kendra Durgapur(Badnera), Dist.Amravati. (Chemical Engineering and Biotechnology Department)
2. Shri Shivaji Education Society's College of Engineering & Technology, Babhulgaon, Akola.



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.



Dr. V.R. Diware
Head, Chemical Engineering



Prof. Dr. K. S. Wani
Principal

Shram Sadhana Bombay Trust's College of Engineering & Technology, Bambhori, Jalgaon.

Website- www.ssoetjalgaon.ac.in

Email: sscoetjal@gmail.com

