

CIVIL VOICE I

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December 2024

Department of
Civil Engineering
BSiET



S. S. V. S. S's
Dr. Bapuji Salunkhe Institute of
Engineering & Technology.

A.I.C.T.E, D.T.E, Approved M.S.B.T.E. Affiliated

2130, E, Tarabai Park, Kolhapur-416003

DEPARTMENT OF CIVIL ENGINEERING

Director's Message

BSIET

VISION

- To be the institute of quality engineering education and research for producing capable industry professionals with responsibilities towards nation building.



It is my pleasure to welcome you to Dr. Bapuji Salunkhe Institute of Engineering & Technology (BSIET), an institution under the well known education trust established in 1954, Shri. Swami Vivekanand Shikshan Sanstha (SSVSS), Kolhapur. The motto “Dissemination of Education through Knowledge, Science and Refined Culture” is given by the founder of SSVSS, Shikshan Maharshi Dr. Bapuji Salunkhe.

Among the top technical institutes, BSIET has made a name for itself. Thanks to its inspiring environment for knowledge development, assimilation, and dissemination with a focus on social commitment, human values, and social responsibility.

Experiential learning and outcome-based education (OBE) are given particular attention at BSIET. The main goals of the academic activities are to give the

MISSION

- M1 – To imbibe and implement outcome-based education for effective teaching-learning process.
- M2 – To upbring critical thinking, research aptitude and problem-solving attitude among the students & teachers.
- M3 – To strengthen industry interactions for upskilling and solving real world problems towards better internship & job opportunities.
- M4 – To sensitize all the stakeholders towards ethics, values, harmony, humanity & environment and lifelong learning.

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students a strong theoretical foundation and the skills necessary to put it into practice. We continuously assess our setup to ensure that it is current and effective, all the while fostering in our students the development of critical thinking, analytical frameworks, entrepreneurialism, and interpersonal and communication skills.

BSIET has established strong industry links across India as well as abroad. BSIET has a strong track record of placements over the past years wherein students across all streams get placed in well reputed industries.

At BSIET, students are encouraged to showcase their talents through a variety of co-curricular and extracurricular activities that offer numerous opportunities. BSIET makes sure that the students demonstrate that they are not just highly skilled engineers but also excellent, responsible citizens of our nation.

I am confident that with our collective efforts, we will continue to elevate BSIET to new heights of success and distinction.

Here's to a transformative and rewarding academic year ahead!

Mr. Viren D Bhiridi

DEPARTMENT OF CIVIL ENGINEERING

Principal's Message

BSIET

VISION

- To be the institute of quality engineering education and research for producing capable industry professionals with responsibilities towards nation building.



It gives me great pleasure to welcome you to BSIET, Kolhapur — an institute dedicated to providing quality education in science and technology along with strong values and ethics. Our aim is not only to produce competent engineers but also responsible and cultured citizens who can contribute meaningfully to society.

Situated in the historic city of Kolhapur within the peaceful surroundings of Tarabai Park, the institute offers a conducive academic environment for learning and innovation. BSIET provides diploma programs under MSBTE in Civil, Mechanical, Electrical, Computer Science & Engineering, and Artificial Intelligence & Machine Learning, along with B.Tech. programs in Computer Science & Engineering, CSE (AI & ML), Electrical Engineering, Electronics & Telecommunication Engineering, and Electronics & Computer Engineering. These programs are designed to meet

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current industry requirements and prepare students for global opportunities.

We believe that education extends beyond classroom teaching. Our teaching-learning process focuses on outcome-based education, practical exposure, and project-based learning to enhance analytical thinking, problem-solving ability, and research aptitude. The institute promotes a healthy atmosphere that encourages creativity, innovation, and professional growth.

Our experienced and dedicated faculty members strive to provide an excellent learning experience supported by modern teaching practices. Students are encouraged to participate in co-curricular and extracurricular activities such as technical competitions, sports, cultural programs, hackathons, workshops, and paper presentations, which help in developing confidence and leadership skills.

Strong industry interaction through industrial visits, internships, and expert lectures enables students to understand real-world engineering practices and improve employability. We continuously guide students for career development and placement opportunities in reputed organizations.

I warmly invite sincere and committed students to join BSIET and assure them a rewarding academic journey filled with knowledge, discipline, and success.

Dr. Suhas G Sapate

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HOD's Message

BSIET

VISION

- To be the recognized department reinforcing knowledge and skill for developing competent and responsible civil engineers towards sustainable civilized society.



Civil Engineering is one of the oldest and core branches dealing with infrastructure such as buildings, roads, bridges, dams, water and sewerage systems. Our department provides strong academic and practical knowledge through well-equipped laboratories, experienced faculty, and departmental library facilities. Students are encouraged to participate in technical activities and competitions. With industry collaborations and consultancy services, we focus on enhancing practical skills, problem-solving ability, and overall professional development.

- M1 – To strengthen students with sound technical knowledge imparted through activity and experiential based teaching-learning process.
- M2 – To develop critical thinking and problem-solving attitude for supervising and solving real world construction problems
- M3 – To motivate students for higher education and professional skills through onsite internships and industry interactions.
- M4 – To in still social ethics and moral values among students and teachers towards sustainable development of eco-friendly society.

Mr. Rhituraj Patil

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Expert Lecture

Advanced Tools & Techniques used in Estimation of Building

An expert lecture on *Advanced Tools & Techniques used in Estimation of Building* was conducted for SY & TY students. The session was delivered by Mr. Makrand P. Randive, Parman Civil Consultant. He explained modern methods of building estimation. Students learned about software and digital tools used in estimation. Practical examples of quantity calculation were discussed. The importance of accuracy in cost estimation was highlighted. Students understood rate analysis and BOQ preparation. The expert shared industry practices. Career opportunities in estimation field were discussed. The session enhanced students' technical skills.



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Expert Lecture on Scope of Civil Engineering (Guru Pournima)

An expert lecture on *Scope of Civil Engineering* was organized for SY & TY students on the occasion of Guru Pournima. The resource person was Dr. Jaydeep M. Shinde, Associate Professor. He explained various career paths in civil engineering. The importance of higher education and skill development was discussed. Students learned about opportunities in design, construction, and consultancy. The role of civil engineers in nation building was highlighted. Motivation towards ethical practice was given. Students were inspired by real-life examples. The lecture was informative and motivating.



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Solar Powered Electrolytic Defluoridation of Drinking Water

An expert lecture on *Solar Powered Electrolytic Defluoridation of Drinking Water* was conducted for SY & TY students. The lecture was delivered by Dr. Prshant Bhagawati, Associate Professor. He explained the problem of excess fluoride in drinking water. The working principle of defluoridation system was discussed. The use of solar energy was highlighted. Students learned about sustainable water treatment methods. Practical applications in rural areas were explained. Environmental benefits were discussed. The session improved awareness of green technology.



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Design of RCC Structures

An expert lecture on *Design of RCC Structures* was organized for TY students. The resource person was Prof. Mahesh S. Salunkhe, Associate Professor. He explained basics of RCC design. Students learned about beams, slabs, and columns. Design concepts as per IS codes were discussed. Load calculation and reinforcement detailing were explained. Practical design examples were shared. The importance of safety and economy was highlighted. Students clarified their doubts. The session strengthened structural design concepts



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Industrial Visit

Visit to Dudhganga Kalamwadi Dam, Canal, Intake Chamber & Percolation Tank

An industrial visit to Dudhganga Kalamwadi Dam and associated structures was organized for TY students. Students observed dam structure and its components. The functioning of canal system was explained. Students learned about intake chamber and its purpose. Percolation tank working was discussed. Water storage and distribution methods were explained. Safety measures at hydraulic structures were highlighted. Students understood the importance of irrigation projects. Practical exposure to water resources engineering was gained. The visit strengthened theoretical concepts.



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Stone Crusher Plant & RMC Plant

An industrial visit to a Stone Crusher Plant and RMC Plant was organized for SY students. Students observed crushing and screening operations. The process of aggregate production was explained. Students learned about grading of aggregates. The working of Ready Mix Concrete plant was demonstrated. Quality control tests were discussed. Safety precautions in plant operation were explained. Students understood material handling systems. Practical exposure to concrete production was gained. The visit enhanced industrial awareness.



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Yashwantrao Chavan Rural Development School, Shivaji University, Kolhapur

An industrial visit to Yashwantrao Chavan Rural Development School was organized for SY students. Students learned about rural development activities. Various government schemes were explained. Importance of infrastructure in rural areas was discussed. Students understood water supply and sanitation projects. Housing and road development works were highlighted. Sustainable development practices were explained. Interaction with experts was arranged. Students gained social and technical awareness. The visit was informative.

Water Treatment Plant

An industrial visit to a Water Treatment Plant was organized for TY students. Students observed different stages of water treatment. The processes of coagulation, sedimentation, and filtration were explained. Disinfection methods were discussed. Students learned about plant components. Importance of safe drinking water was highlighted. Quality testing procedures were explained. Operation and maintenance aspects were discussed. Practical exposure to environmental engineering was gained. The visit enhanced understanding.

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Civil Highlights

Water Treatment Infrastructure Strengthened (Dec 2024)

New and upgraded water treatment plants were implemented across various regions. The focus is on providing safe and reliable drinking water.

Irrigation & Dam Modernization Projects Accelerated (Dec 2024)

Several dam rehabilitation and canal modernization projects progressed. These projects aim to improve irrigation efficiency and water storage.

Growth of Ready Mix Concrete (RMC) Industry (Dec 2024)

Increased use of RMC plants helped in faster and quality construction. It also reduced material wastage at sites.

Expansion of Stone Crushing & Aggregate Processing Units (Dec 2024)

Modern stone crusher plants are being established to meet infrastructure demand. Emphasis is given to dust control and safety.

Promotion of Rural Infrastructure Development (Dec 2024)

Government schemes supported development of rural roads, housing, and water supply systems. This improved living standards in villages.

Focus on Sustainable Water Management (Dec 2024)

Rainwater harvesting, percolation tanks, and reuse of treated water are promoted. These measures support groundwater recharge.

Quality Control in Construction Emphasized (Dec 2024)

Strict testing of materials and workmanship is encouraged. This improves durability and safety of structures.

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Academic Toppers

BSIET

"ज्ञान, विज्ञान आणि सुसंस्कार यांचाही शिक्षण प्रसार" - शिक्षणमहर्षी डॉ.बापूजी साळुंखे
SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S
DR. BAPUJI SALUNKHE INSTITUTE OF
ENGINEERING AND TECHNOLOGY

TOPPERS OF MSBTE WINTER EXAM 2024

DEPARTMENT OF CIVIL ENGINEERING

THIRD YEAR

1st



Ms.Nair Sridevi

95.00%

2nd



Ms.Bangl Aljarin

94.90%

3rd



Mr.Shinde Sairaj

90.30%

SECOND YEAR

1st



Mr.Singh Prince

81.88%

2nd



Mr.Yadav Parth

81.29%

3rd



Ms.Matawade Prachi

79.18%

Congratulations

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