CIVIL VOICE II

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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

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.

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 Bhirdi

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

DEPARTMENT OF CIVIL ENGINEERING

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.

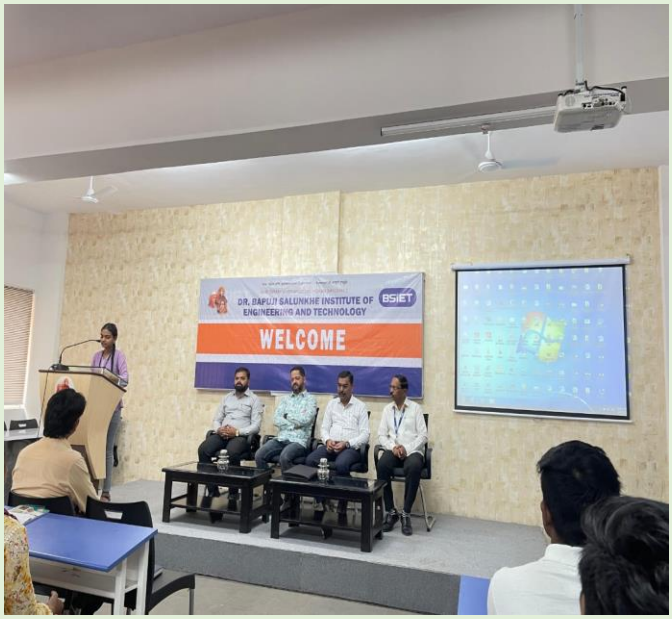
Mr. Rhituraj Patil

MISSION

- **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.**

Expert Lecture

- **Valuation & Tendering**



An expert lecture on Valuation & Tendering was organized by the Department of Civil Engineering to enhance students' understanding of estimation and contract procedures in construction projects. The resource person explained the concept and importance of property valuation and its practical applications in engineering works. Students learned different methods of valuation such as land and building valuation, depreciation, and market value assessment. The lecture also covered the tendering process including preparation of tender documents, types of tenders, and contract conditions. Emphasis was given on BOQ preparation and cost control. The session helped students understand real-time professional practices and improved their technical knowledge and industry awareness.

- **Advanced Construction Material**

An expert lecture on Advanced Construction Materials was organized by the Department of Civil Engineering to introduce students to modern materials used in construction. The speaker explained properties and applications of materials such as self-compacting concrete, fibre-reinforced concrete, geopolymer concrete, and high-performance concrete. Emphasis was given on durability, sustainability, and strength enhancement in structures. Students also learned about eco-friendly materials and recycling techniques in construction. The lecture highlighted current industry trends and quality requirements. The session enhanced students' knowledge of modern construction practices and encouraged adoption of innovative materials in future projects.

- **Design & Project Management Tools in CMA**

An expert lecture on Design & Project Management Tools in Construction Management Applications (CMA) was organized by the Department of Civil Engineering to familiarize students with modern planning and management practices. The resource person demonstrated the use of software tools for project scheduling, resource allocation, and cost control. Students learned about bar charts, CPM/PERT techniques, and monitoring of project progress. The importance of coordination, documentation, and time management in construction projects was emphasized. Practical examples from real projects were discussed. The session improved students' understanding of project execution and enhanced their managerial and technical skills.

- **Demonstration & Hands on Training on NDT of Concrete**

A demonstration and hands-on training session on Non-Destructive Testing (NDT) of Concrete using Ultrasonic Pulse Velocity (UPV) was organized by the Department of Civil Engineering. The expert explained the principle and importance of NDT in assessing the quality and integrity of concrete structures. Students learned about the UPV test procedure, equipment handling, and interpretation of test results. The session covered detection of cracks, voids, and honeycombing in concrete without damaging the structure. Practical testing was performed on concrete specimens. The training enhanced students' practical knowledge of quality control and structural health assessment techniques.

Industrial Visit

- **ESR, Satara**

The Department of Civil Engineering organized an educational visit to the Elevated Service Reservoir (ESR) at Satara to understand water storage and distribution systems. Students observed the components of ESR such as staging, container, inlet and outlet arrangements. The engineer explained design considerations, capacity calculation, and construction methodology. Emphasis was given on water pressure maintenance and supply management. Students also learned about maintenance practices and safety measures. The visit helped students relate theory with practical water supply engineering concepts and improved their technical understanding.

- **New College, Kolhapur**

The Department of Civil Engineering organized an educational visit to the proposed under-construction building at New College, Kolhapur to study real-time construction practices. Students observed site layout, excavation, foundation work, and RCC structural elements. The site engineer explained construction methodology, reinforcement detailing, and material usage. Emphasis was given on quality control, curing practices, and safety measures. Students also learned about drawings interpretation and site supervision. The visit helped students connect theoretical concepts with practical execution and enhanced their understanding of building construction

DEPARTMENT OF CIVIL ENGINEERING

- **Water Treatment Plant**

The Department of Civil Engineering organized an educational visit to a Water Treatment Plant to understand the process of making raw water safe for drinking. Students observed various treatment stages such as aeration, coagulation, sedimentation, filtration, and disinfection. The plant officials explained the functioning of different units and equipment. Emphasis was given on water quality standards and testing procedures. Students also learned about operation, maintenance, and safety practices followed at the plant. The visit helped students relate theoretical knowledge with practical water supply engineering applications and enhanced their technical understanding.

- **Visit To CSMT**

Under the subject RBT (Railway, Bridge & Tunnel Engineering), an educational visit to the CSMT Kolhapur Railway Station was organized by the Department of Civil Engineering. Students observed railway track components such as rails, sleepers, ballast, and fastening systems. The layout of platforms, points and crossings, and drainage arrangements was explained by officials. Emphasis was given on track maintenance, safety measures, and passenger circulation planning. Students learned about gauge, signalling basics, and load considerations in railway structures. The visit helped students relate theoretical concepts of railway engineering with practical field conditions and enhanced their technical understanding.

- **Sewage Treatment plant**

Under the subject Environmental Engineering, an educational visit to a Sewage Treatment Plant (STP) was organized by the Department of Civil Engineering. Students observed treatment stages such as screening, grit removal, sedimentation, aeration, and disinfection. The functioning of aeration tanks, clarifiers, and sludge treatment units was explained by plant officials. Emphasis was given on wastewater recycling and pollution control. Students also learned about safety and maintenance practices. The visit helped relate theoretical concepts with real-time wastewater treatment processes and enhanced practical understanding of sanitation engineering.

Civil Highlights

1. **January 2025** – Atal Setu Traffic Monitoring
   Performance and structural monitoring of the Mumbai Trans Harbor Link was reviewed after public usage increased.
2. **January 2025** – Tunnel Construction Safety Reviews
   Authorities strengthened geotechnical investigation and monitoring practices in tunnel projects.
3. **February 2025** – Metro Project Expansion in Maharashtra
   Progress accelerated on Mumbai and Pune metro corridors for sustainable urban transport.
4. **February 2025** – Riverfront Development Announcements
   Urban waterfront and riverfront development projects were proposed for flood control and city beautification.
5. **March 2025** – AI & Drone Surveying in Infrastructure
   Drones and digital surveys increasingly used for highway inspection and progress monitoring.
6. **March 2025** – Rise of Precast Construction
   Developers adopted precast and modular construction methods to reduce construction time.
7. **April 2025** – Smart Water Management Systems
   Cities introduced leakage detection and smart metering for efficient water supply.
8. **April 2025** – Nationwide Road Safety Audit Drive
   Authorities conducted audits to identify accident-prone road locations.
9. **May 2025** – Heat-Resistant Road Materials Tested
   New pavement materials tested to withstand high temperatures and rutting.
10. **May 2025** – Focus on Sustainable & Green Construction
    Growing use of eco-friendly materials and energy-efficient construction practices.

Academic Topper

DEPARTMENT OF CIVIL ENGINEERING

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