

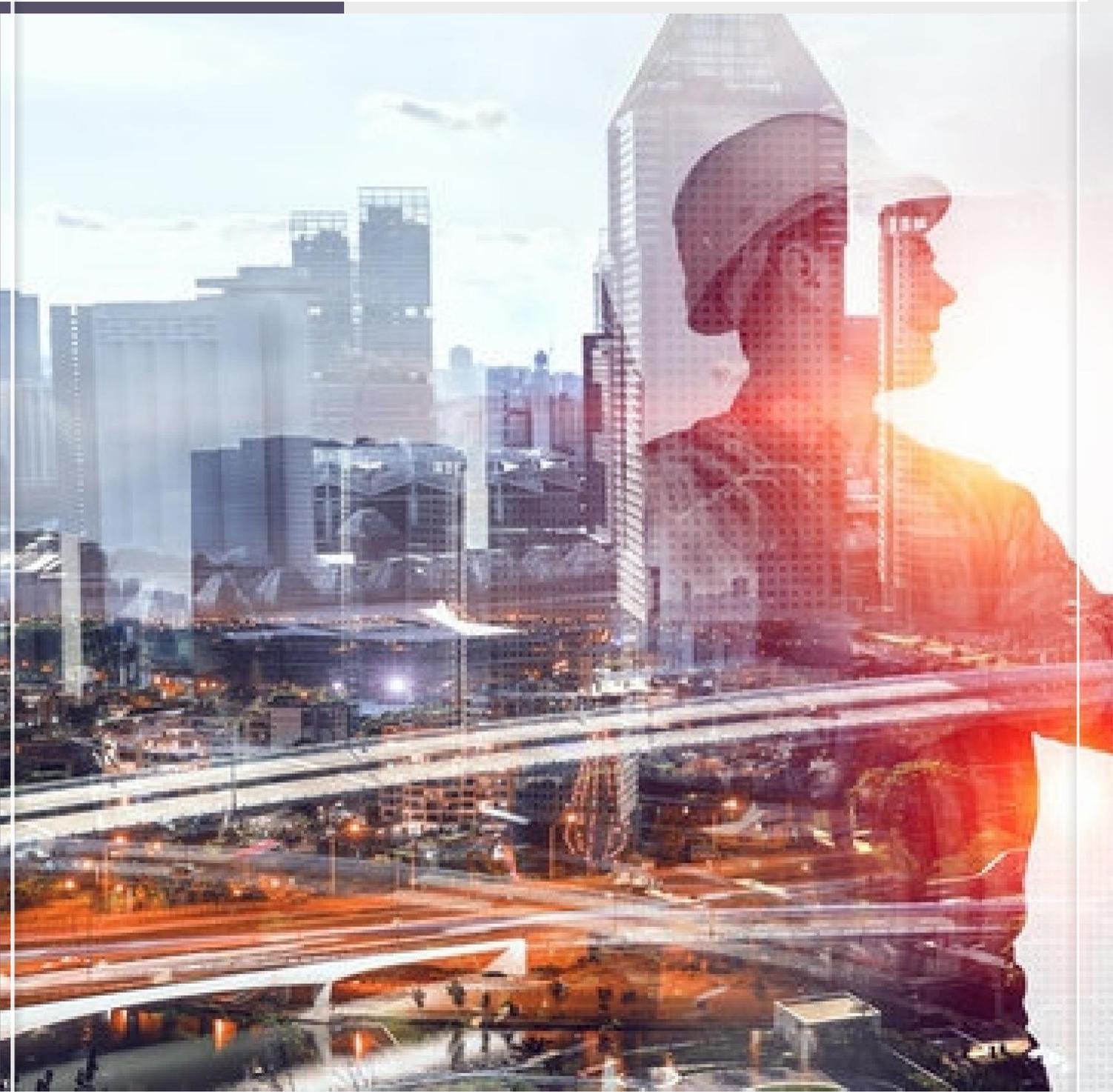


S. S. V. S. S's
**Dr. Bapuji Salunkhe Institute of Engineering
& Technology.**

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 OFFICIAL MAGAZINE

Concrete Times Volume 3



2130, E, Tarabai Park, Kolhapur-416003

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Editorial Team

Concrete Times – Volume 3

Vision

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



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.



VISION

“To provide quality technical education for fulfilling social needs as a civil engineer”

MISSION

To impart quality teaching, hands on training and value education to students.

To inculcate professional ethics through quality and modern construction practices.

To facilitate students for self – employability and pursue career enhancing courses.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1 - Provide socially responsible, environment friendly solutions to Civil engineering related broad-based problems adapting professional ethics.

PEO 2 - Adapt state-of-the-art Civil engineering broad-based technologies to work in multidisciplinary work environments.

PEO 3 - Solve broad-based problems individually and as a team member communicating effectively in the world of work.

PROGRAM OUTCOMES (POs)

PO 1. Basic knowledge: Apply knowledge of basic mathematics, sciences and basic engineering to solve the broad-based Civil engineering problems.

PO 2. Discipline knowledge: Apply Civil engineering knowledge to solve broad-based Civil engineering related problems.

PO 3. Experiments and practice: Plan to perform experiments and practices to use the results to solve broad-based Civil engineering problems.

PO 4. Engineering tools: Apply relevant Civil technologies and tools with an understanding of the limitations.

PO 5. The engineer and society: Assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to practice in field of Civil engineering.

PO 6. Environment and sustainability: Apply Civil engineering solutions also for sustainable development practices in societal and environmental contexts.

PO 7. Ethics: Apply ethical principles for commitment to professional ethics, responsibilities and norms of the practice also in the field of Civil engineering.

PO 8. Individual and team work: Function effectively as a leader and team member in diverse/ multidisciplinary teams.

PO 9. Communication: Communicate effectively in oral and written form.

PO 10. Life -long learning: Engage in independent and life-long learning activities in the context of technological changes also in the Civil engineering and allied industry.



Program Specific Outcomes (PSOs)

PSO1: Civil Engineering Fundamentals

Apply fundamental concepts of civil engineering such as building construction, surveying, structural engineering, transportation engineering, geotechnical engineering, and water resources engineering to solve practical engineering problems.

PSO2: Planning, Design, and Execution

Assist in planning, designing, estimation, and execution of civil engineering projects using standard codes, drawings, and specifications with the help of modern tools and software.

PSO3: Site Practices and Quality Control Perform site supervision, material testing, quality control, and safety practices in construction projects by following standard procedures and professional ethics.

PSO4: Sustainability and Professional Practice Apply sustainable construction practices, environmental considerations, and ethical responsibilities while working in civil engineering projects and professional environments.

ABOUT INSTITUTE

BSIET, established in 2009, is a pioneering institution where engineering and technology converge to address real-world challenges. Rooted in the founding motto of Theory and Practice, we strive to impart the latest knowledge in engineering and technology, focusing on its societal impact and improving quality of life. Recognized by All India Technical Education-New Delhi and affiliated with the Maharashtra State Board of Technical Education, our academic programs span across diploma, bachelor's fostering the growth of innovators, inventors, entrepreneurs, and leaders.

In 2023, we marked a significant milestone with the inauguration of our engineering college. Affiliated with D.BATU Lonere, this new venture offers Bachelor of Technology (B.Tech) programs with specializations including Artificial Intelligence and Machine Learning (AIML), Computer Science & Engineering(CSE), Electrical Engineering, and Electronics and Telecommunication Engineering. This expansion underscores our commitment to providing cutting-edge education aligned with industry demands, empowering students with the skills and knowledge to thrive in today's dynamic technological landscape.

Situated amidst the vibrancy of a bustling city, BSIET's 5-acre campus offers a convenient central location, providing easy access to urban amenities and nearby industrial areas. Our dedicated faculty, engaged in world-class research, work closely with students, offering countless opportunities for hands-on learning and problem-solving. Through project-based learning and a commitment to excellence in teaching and learning, we prepare our students not only to excel academically but also to make a tangible difference in the world through engineering and technology.

ABOUT DEPARTMENT



Dr Bapuji Salunkhe Institute of Engineering and Technology Kolhapur was established in 2009 and Department of civil Engineering is part of the institute since its inception. The departmental activities embrace planning, design, construction and management. The department has developed strong interaction with the construction industry. Many of the faculty members have completed their post-graduation. Besides high quality teaching department is actively involved in consultancy. It undertakes industrial consultancy work as a part of its interaction with industry and also organizes seminars for professional interaction. Many of our alumni hold prestigious position in leading academic institutions, industry and government. The department contributes to the interdisciplinary academic and various activities of the institute

Principal's Message



MR VIREN D BHIRDI

Dear Readers, It is my pleasure to present this edition of our biannual newsletter, highlighting the Department of Civil Engineering's achievements, innovations, and initiatives. Civil Voice reflects our commitment to excellence, leadership, and continuous learning. I applaud the team's dedication in crafting this platform, which fosters engagement and inspires progress. My heartfelt gratitude to all contributors for their hard work in making this possible. As we move forward, I am confident Civil Voice will grow stronger, capturing more milestones and sparking greater creativity. Let's keep turning ideas into action and shaping a brighter future together.

HOD's Message



MR RHITURAJ PATIL

Department mainly equips its students with diploma level expertise and appropriate skills in the field of civil engineering. This semester we organized guest lecture and Industrial visit which helped students to learn Advanced Civil Engineering software's, Construction Practices & Hands on Training on different surveying instruments. We also organized "CESA Departmental activities" a department level technical event.

ABOUT DEPARTMENT FACULTIES

The Department of Civil Engineering is always imparting quality and real-time technical education including techno-social ethics, soft skills, and leadership qualities. Always motivating intellectual skill development and entrepreneurship among the graduates to handle projects independently.

Teaching Faculty



Mr Rhituraj Kishor Patil
Designation: Head Of Department
Qualification: BE Civil, MBA, MTech App
Teaching Experience: 15 Years
Industrial Experience: 3 Years
Areas of Interest: Construction Management



Mr. A. B. Sonalkar
Designation: Lecturer
Qualification: B.E (Civil)
Teaching Experience: 10 Years
Industrial Experience: 10 Years
Areas of Interest: Surveyor



Mrs. S. P. Mengane
Designation: Lecturer
Qualification: M.Tech.(Structures)
App, B.E (Civil)
Teaching Experience: 10 Years
Industrial Experience: 1 Years
Areas of Interest: Structures, Estimation



Mr Mahesh Tukaram Tirale
Designation: Lecturer
Qualification: BE Civil
Teaching Experience: 6 Years
Industrial Experience: 2 Years
Areas of Interest: Structure, Hydraulics



Mr Hemant Vitthal Kumbhar
Designation: Lecturer
Qualification: DCE, BE Civil, ME App
Industrial Experience: 2 Years
Teaching Experience: 11 Years
Areas of Interest: Construction
Management



Mrs Taslim Badiwali
Designation: Lecturer
Qualification: BE Civil
Teaching Experience: 1 Years
Areas of Interest: Environment

Non-Teaching Staff



Mrs. M. R. Patil
Designation: Lab Assistant
Qualification: Diploma (Civil)



Mr. D. D. Taral
Designation: Peon
Qualification: HSC

Technical Information about Surveying

Mr. A. B. Sonalkar (Faculty)

Surveying is the science and art of determining the relative positions of points on, above, or below the surface of the earth by measuring distances, directions, and elevations. It is one of the oldest branches of civil engineering and forms the backbone of planning, design, and construction activities. Before any engineering project such as a building, road, bridge, dam, or canal is started, surveying is carried out to collect accurate data about the site. Without proper surveying, it would be impossible to plan projects correctly or execute them safely and economically.

The primary purpose of surveying is to prepare maps and plans that represent the physical features of the land. These maps help engineers and planners understand the terrain, locate natural and artificial features, and make informed decisions about design and alignment. Surveying is also essential for establishing property boundaries, resolving land disputes, and maintaining land records. In construction projects, surveying is used to transfer the design from drawings to the ground, a process known as setting out.

Surveying can be broadly classified into plane surveying and geodetic surveying. Plane surveying is carried out for small areas where the curvature of the earth is neglected, and measurements are considered to be on a flat surface. This type of surveying is commonly used for local projects such as building construction, road layouts, and small land parcels. Geodetic surveying, on the other hand, is used for large areas and takes into account the curvature of the earth. It is mainly employed for national mapping, large infrastructure projects, and control surveys.

Several methods of surveying are practiced depending on the nature and accuracy required. Chain surveying is the simplest method and is used in small, open areas with fairly level ground. Compass surveying involves measuring directions using a magnetic compass and is suitable for rough surveys. Levelling is used to determine the elevation or height of points relative to a reference level, which is essential for designing drainage systems, roads, and foundations. Modern surveying techniques use advanced instruments such as total stations, GPS receivers, and drones, which provide fast and highly accurate results.

A wide range of instruments is used in surveying. Traditional instruments include chain, tape, compass, theodolite, and dumpy level. The theodolite is used to measure horizontal and vertical angles with high precision, while the dumpy level and auto level are used for levelling work. Modern instruments such as total stations combine distance measurement, angle measurement, and data recording in a single device. GPS equipment uses satellite signals to determine the position of points on the earth's surface, making it extremely useful for large-scale surveys.

Surveying plays a crucial role in ensuring quality and safety in construction. Accurate surveys help in correct alignment, proper leveling, and precise positioning of structures. This reduces errors during construction, minimizes wastage of materials, and saves time and money. Surveying also supports maintenance and monitoring of existing structures by detecting settlement, deformation, or movement over time.

In today's rapidly developing world, surveying has become more advanced with the use of digital technology. Computer-aided drafting (CAD) software and geographic information systems (GIS) are widely used to process and present survey data. These technologies improve efficiency, accuracy, and data management. As infrastructure projects continue to grow in size and complexity, the importance of surveying will remain fundamental to civil engineering.



Civil Engineering Student Association and Update

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's
Dr Bapuji Salunkhe Institute of Engineering and Technology

2130, Tarabai Park, Kolhapur-416001

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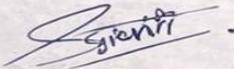
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ACADEMIC YEAR: 2023-24

DEPARTMENT: CIVIL ENGINEERING

**CESA 2023-24
COMMITTEE MEMBERS**

Sr. No.	Position	Names
1	President	Bhandari Satyajeeet
2	Vice-President	Dhamane Rohan
3	Treasurer	Shreyash Vatkar
4	Printing And Notice Board	Pratiksha Bakare, Varad charan, Sairaj shinde *
5	Stage Decoration	Neha Mali, Gauravi Sawant, Nadim Fakair, Yusuf Zari.
6	Event Management	Attar Bhushara, Bangi Alajarin, Alvekar Sakshi.
7	Food And Refreshment	Abhishek Pisal, Mayuresh koli, Rohit Mandal *
8	Sports	Saad Bargir, Shahid Fharas
9	Photography	Pranav Gade, Suraj Patil



CESA Co-ordinator
(Mr. H.V. Kumbhar)



H.O.D,
(Mr. R.K. Patil)

Head of Department (Civil Engg.)
Dr. Bapuji Salunkhe Inst. of Engg. & Tech.
Kolhapur

Civil Engineering Student Association

The Civil Engineering Student Association (CESA) is a professional student body established with the objective of fostering academic excellence, technical competence, and holistic development among civil engineering students. The association serves as a platform that enables students to enhance their knowledge beyond the classroom by organizing and participating in a wide range of technical, academic, and co-curricular activities such as seminars, workshops, expert lectures, technical competitions, industrial visits, and training programs. Through these initiatives, CESA strives to bridge the gap between theoretical concepts and practical applications, thereby preparing students to meet the evolving demands of the civil engineering profession.

CESA also plays a significant role in nurturing leadership qualities, teamwork, discipline, and ethical values among students. By actively involving students in planning and execution of events, the association encourages responsibility, creativity, and effective communication. Furthermore, CESA promotes interaction between students, faculty members, and industry professionals, creating an environment conducive to learning and innovation. With a commitment to continuous improvement and professional growth, the Civil Engineering Student Association contributes meaningfully to the development of competent, confident, and socially responsible civil engineers.

Traditional Day

Traditional Day was celebrated with great enthusiasm, showcasing the rich cultural heritage and diversity of India. Students adorned traditional attire and participated in cultural performances, creating a joyful and colorful atmosphere on campus. The event promoted unity, cultural awareness, and provided a memorable experience for all.



Annual Social Gathering Jallosh 2024

The Annual Social Gathering *Jallosh 2024* was celebrated with great enthusiasm and energy, making it one of the most memorable events of the academic year. The program provided a vibrant platform for students to showcase their talents in dance, music, drama, and other cultural performances. The event reflected the creativity, unity, and teamwork of students and faculty members, while encouraging overall personality development. *Jallosh 2024* concluded on a joyful note, leaving behind cherished memories for everyone involved.



Impulse 2k24

Impulse 2K24 was a dynamic technical event organized to encourage innovation, creativity, and technical excellence among students. The program featured various technical competitions, project exhibitions, and interactive activities that provided students with a platform to showcase their skills and knowledge. The event successfully promoted a spirit of learning, teamwork, and healthy competition, making Impulse 2K24 a memorable and inspiring experience for all participants.



Engineer's Day

Engineer's Day was celebrated with great enthusiasm and respect to honor the invaluable contributions of engineers in shaping modern society and advancing technological progress. The occasion provided an excellent platform for students to showcase their talents, knowledge, and innovative ideas through a well-balanced combination of technical and non-technical events. Technical activities such as project exhibitions, paper presentations, technical quizzes, and problem-solving competitions encouraged students to enhance their analytical thinking, practical understanding, and application of engineering concepts. At the same time, non-technical events including fun games, creative competitions, and interactive sessions promoted creativity, teamwork, communication skills, and confidence among students.



Academic toppers

BSIET | **DR. BAPUJI SALUNKHE INSTITUTE OF ENGINEERING AND TECHNOLOGY**
2130, E Ward, Tarabai Park, Kolhapur - 416 003

TOPPERS OF MSBTE WINTER EXAM 2024

DEPARTMENT OF CIVIL ENGINEERING

THIRD YEAR TOPPERS

Rank	Name	Percentage
1st	SriLaxmi J, Nair	91.10%
2nd	Pratiksha B Gawade	82.60%
2nd	Pratiksha B Gawade	82.60%

SECOND YEAR TOPPERS

Rank	Name	Percentage
1st	Alajarin A Bangi	93.67%
3rd	SriDevi J Nair	92.33%
3rd	Neha A Mali	86.67%

Congratulations

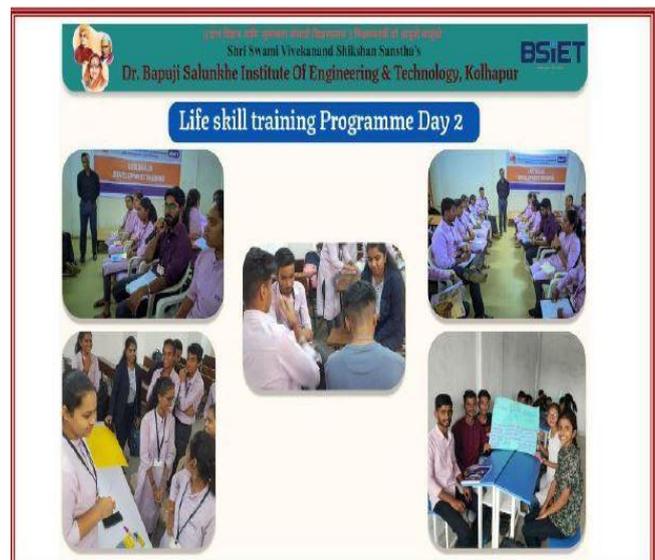
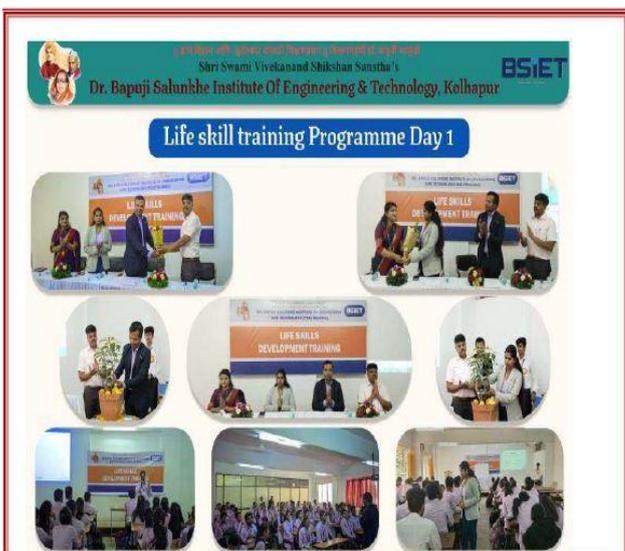
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960 750 9292 | 960 750 4342

Academic Toppers Felicitation



Photo Gallery







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