VISION
To develop world class engineering professionals with good moral characters and make them capable to exhibit leadership through their engineering ability, creative potential and effective soft skills which will improve the quality of life in society.

MISSION OF THE DEPARTMENT
To impart quality technical education to the students through innovative and interactive teaching and learning process to acquire sound technical knowledge, professional competence and to have aptitude for research and development. Develop students as excellent communicators and highly effective team members and leaders with full appreciation of the importance of professional, ethical and social responsibilities.

FROM HOD's DESK

Dr. D. B. Kshirsagar (Head of Department)

It gives me an immense pleasure to express my views towards the development of Computer Engineering Department. Besides a very strong and disciplined Academics, Department has started various practices for the overall development of students which includes SPEAK and Coding Club for enhancing the Employability Skills, , RID Forum for the Project development based on innovative ideas, Software Consultancy Cell for software development , Mentorship activities and regular Alumni interaction with students. Students are having enormous talents and creativity which are being explored by extra co-curricular activities like Group Discussion, debate, Extempore, Programming contests, project competition etc. organized under different professional bodies like IEEE, CSI as well Departmental association.

Every year we observe lots of achievements in both academics and extra-curricular activities. Throughout the year on behalf of professional bodies and department association, lots of activities are conducted. Many students participated in these activities and the activities outside the college and bagged number of prizes. Hearty congratulations to all of them!!!

FROM EDITOR's DESK

Prof. Atul Mokal (Dean IIIC)

Dear Spectators,

"Remember that you will find treasure wherever your heart is". Some opportunities make us feel alive, engaged, connected and fulfilled. I am thankful to our honourable management and director Dr. Ajaykumar Thakur and our head Dr. D. B. Kshirsagar for providing me the chance to serve as editor of the Computer Engineering newsletter, which is published twice a year. We are able to deliver the special and worthwhile reading edition of Computer Engineering Newsletter "July 2023", thanks to our ongoing work. I am honoured to acknowledge the contributions made towards the completion of this issue by my students, illustrious alumni, and my academic colleagues. I anticipate continuing to receive the same level of support. We want to set up the new editorial board in the following semester. Students, alumni, and faculty members who are interested may contribute. See you in the next Edition.

NEWS AT GLANCE

- **An International Expert Talk on "Going Global"**

    This remarkable gathering, organized by ACES, brought together a diverse audience to listen to the inspiring journey of Mr. Puranik. As the first Indian/Asian-origin assemblyman, Indian-origin gazetted officer, and the first foreign-origin public school principal in Japan, Mr. Puranik's insights were truly eye-opening. The event provided valuable perspectives on the challenges and opportunities of "Going Global."

- **FDP on "NEP2020 in Creating Engaging Environment for Learning & Technology Leadership"**

    The event report for the FDP (Faculty Development Program) held on 12th March 2023, focused on "NEP2020 in Creating Engaging Environment for Learning & Technology Leadership," is now available. This insightful session, featuring a guest lecture by RPG Zensar, delved into the dynamics of the National Education Policy 2020 and its implications on fostering engaging learning environments and nurturing technology leadership. The report captures the key highlights and key takeaways from this informative event.

- **Guest Lecture on "Building Self Confidence by increasing Self Love"**

    "Building Self Confidence by increasing Self Love," and featuring Ms. Priya Jain, a renowned psychologist from KLH Deemed to be University in Hyderabad, is now available. This lecture provided valuable insights and strategies on enhancing self-confidence through self-love. The report summarizes the key points and takeaways from this empowering session.

Industry Programs & Social Events Under IIIC

- **"Coding Contest & Project Competition in ProFest 2K23"**

    A Coding Competition arranged by ACES in collaboration with Geeksforgeeks Student Chapter SCOE

- **Arsh Goyal's Talk on "Your Dream Career"**

    This event was organised on 10th February 2023. The event aimed to bridge the gap between different-tier colleges. Dr. M.B. Gawali highlighted achievements in International Relations. Arsh Goyal acknowledged MITACS internship recipients. The session emphasized the importance of networking, proactiveness, and early initiation. It recommended four steps for engineering students, discussed passion versus tradition, and stressed self-development. The conclusion featured a vote of thanks by Prof. Atul Mokal. Organized by ACES & Geeksforgeeks Student Chapter, Dr. S.R. Deshmukh managed the event, concluding with the national anthem.

Best Academic Practices

- **ICT based learning:** Use of LCD projectors/smart boards and provision for interactive teaching learning.
- **Collaborative / Cooperative teaching / learning:** Students share knowledge or discuss topics in small group or in peer mode.
- **NPTEL and SWAYAM:** The faculty members are using E-sources such as NPTEL and SWAYAM courses for effective teaching. The same also provided to the students in order to develop self-learning and life-long learning skills.
- **Assignments based problem solving:** Assignments are given to students on problems and they solved by themselves. Assignments are based on COs which helps to achieve Program Outcomes.
- **Laboratory / video based demonstration:** Demonstration of system or parts of a real world system using modern tools.
- **Group discussion/ presentation:** Students learn through group discussion or asked to deliver short presentation on a topic.
- **Expert Lecture:** Department, with the prime vision of enhancing technical competency of our students, has organized various guest lectures by inviting experts from Industry and Academia to lend valuable guidance on latest technical drive, industry expectations and avenues for knowledge
- **Internship:** At the end of every semester or in vacation time students is allowed to carry out internship in reputed industries/companies to get practical exposure from industries. It helps the students to bridge the gap between the subject's studies and industrial need.
- **Industrial Visits:** Industrial visits are arranged to get the student's acquainted with industrial environment and work ethics.
- **Project Based Learning (PBL):** Project Based Learning (PBL) is significantly more effective than traditional instruction to train competent and skilled practitioners and it promotes long-term retention of knowledge and skills. It is an innovative practice that is used to implement Outcome Based Education Students is encouraged to carry out mini projects to apply their engineering knowledge from third semester onwards till seventh semester.
- **Continuous Internal Assessment CIA:** Continuous assessment is conducted for theory as well as laboratory courses. In theory courses, questions are asked based on the Course Outcomes and RBT levels. Whereas in lab courses, continuous assessment is conducted on the basis of predefined rubrics.
- **Mentoring System:** Faculty members assigned 20 students of respective class and accordingly mentor them to achieve their goals and grades. Mentoring happens at the departmental level.
- **Foreign Languages** exposure for global opportunities.
- **Foreign University** collaborations.
- Choice Based Subjects.
- **Professional** and **open electives**.
- **Online Courses**, **training** and **certification courses**.
- Industry based **training** and **hire program**.

Faculty Achievements

Dr. A. V. Brahmane

Publications:

- Artificial Intelligence- Based Energy management System for regenerate energy sources
- IEEE Conference 2023
- Hybrid Optimization Algorithm for Big Data Classification
- IEEE Conference 2023

Patent: Published in IPR A Smart Tile with Health Monitoring System

PhD Award in Computer Science and Engineering (Feb 2023).

Prof. P. M. Dhanrao

Admission for PhD at Indian Institute of Information Technology (An Institution of National Importance).

Student Achievements

Vaishnavi Wakchaure represented college at university level at Pune for youth festival and 2nd price in group dance at YIN mahostav Karjat (S_stepper's).

Trupti Nabriya got selected for zonal in youth festival and got 3rd price in dance competition in YIN (s_stepper's and Saaz).

Bhalerao Samiksha, Akolkar Shravani, Bombe Vidya got 1st prize in zonal level for installation in youth festival (kaladalan).

Programs Educational Objectives (PEOs)

1. To prepare the committed and motivated graduates by developing technical competency, research attitude and life-long learning with support of strong academic environment.
2. To train graduates with strong fundamentals and domain knowledge and update with modern technology to analyse, design and create novel products & provide effective solutions for social benefits.
3. To exhibit employability skills. Leadership and right attitude to succeed in their professional career.

Program Specific Outcomes (PSOs)

1. The ability to apply knowledge of problem solving , algorithmic analysis, software engineering, Data Structures, Networking, Database with modern recent trends to provide the effective solutions for Computer Engineering Problems.
2. The ability to inculcate best practices of software and hardware design for delivering quality products useful for the society.
3. The ability to employ modern computer languages, environments, and platforms in creating innovative career paths.

Editorial Board

Dr. Ajaykumar Thakur
Director SCOE

Dr. D. B. Kshirsagar
Head

Prof. Atul Mokal
Editor-in-chief

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Mr. Tanay Sasane
Student Member

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