

Best Practices-I

The primary goal of education is to promote the holistic development of students, few Initiatives aimed at enhancing skills, knowledge, and values for students in the context of Engineering education

Objectives

- To strengthen problem-solving, design, and practical skills
- To develop practical coding skills necessary for engineering applications and global competitiveness.
- To encourage students to integrate these values in their professional lives, promoting responsible leadership.
- To establish the “for fostering student innovation and interdisciplinary activities.
- To streamline course management, assignments, and performance tracking for a better learning experience.
- To improve professional credentials, making students more competitive in the job market.
- To create a foundation for sustainable growth and entrepreneurial success.

The Practices

1. Guest Lecture on IoT Based Sensors and Wireless Evaluation

- To introduce students to the latest trends and innovations in IoT and wireless sensor technology.
- To strengthen problem-solving, design, and practical skills in electrical engineering.
- To provide hands-on examples and case studies that prepare students for real-world applications.

2. Value-Added Workshop on JAVA

- To enhance students' proficiency in Java programming through immersive, hands-on training.
- To develop practical coding skills necessary for engineering applications and global competitiveness.
- To support students in becoming practicing engineers with robust programming capabilities.

3. Guest Lecture on Human Values

- To raise awareness of human values and ethical responsibilities among engineering students.



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- To encourage students to integrate these values in their professional lives, promoting responsible leadership.
- To inspire future engineers to contribute positively to society through ethical decision-making.

4. Under Avishkar Club”

- To establish the “for fostering student innovation and interdisciplinary activities.
- To utilize grant funding to provide resources and events that encourage new ideas and technical skills.
- To support talent development by organizing workshops, seminars, and competitions.

5. Utilization of Learning Management System (LMS)

- To improve educational support and communication for students and parents.
- To streamline course management, assignments, and performance tracking for a better learning experience.
- To leverage LMS tools for remote learning, assessment, and feedback.

6. Encouragement for National and Global Certifications

- To motivate students and faculty to earn recognized certifications from esteemed organizations.
- To improve professional credentials, making students more competitive in the job market.
- To support continuous learning and specialization in relevant engineering fields.

7. Establishment of Ecosystem for Innovation, Entrepreneurship, and Startup

- To foster a supportive environment for student-led innovation and entrepreneurial activities.
- To provide resources, mentorship, and networking opportunities for startups within the department.
- To create a foundation for sustainable growth and entrepreneurial success.

Problems encountered/ resources required:

Problems Encountered:

- Access to experts in IoT technology; balancing theory with hands-on learning within limited time; ensuring students' foundational knowledge for advanced topics.
- Access to enough computers for all participants; varying skill levels among students affecting engagement; need for qualified instructors experienced in Java.
- Student interest in non-technical topics; difficulty in relating human values to engineering; challenges in interactive engagement.

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- Efficient use of limited grant funds for a wide range of activities; need for long-term sustainability of the club beyond initial funding; ensuring active student participation.
- Initial technical issues with the LMS; limited training for students and faculty on LMS features; ensuring consistent use for communication and feedback.
- Financial constraints for students/faculty to pay certification fees; time management alongside academic workload; awareness of certification opportunities

Resources Required:

- IoT and s Problems Encountered: Lack of initial resources or seed funding; limited mentorship opportunities for students; challenges in building industry connections. Ensor modules for demonstrations, guest speakers with specialized knowledge, multimedia equipment, and hands-on lab access.
- A computer lab with up-to-date systems, experienced Java instructors, and specialized software tools for Java programming.
- Engaging guest speakers with a background in ethics and human values, interactive case studies, and resources for discussions or group activities.
- Budget management resources, event planning tools, mentorship for project development, and physical space for club activities.
- LMS licenses, training sessions for faculty and students, technical support, and periodic system upgrades.
- Funding support or fee waivers for certifications, informational sessions on benefits and process, and access to online study materials.
- Seed funding, access to workspace and prototyping labs, mentorship from experienced entrepreneurs, and networking events with industry partners.

Best Practices-II

Objectives

- To provide in-depth knowledge on the subject matter to the newly recruited faculty.
- To enhance the technical competency and presentation skills in the classroom.
- To improve instructional methods and curriculum content for better student learning outcomes.
- To provide students with hands-on experience in Engineering designing, coding, programming skills, assembling, and fabrication.

The Practices

- KITS follow the employs a transparent recruitment process for faculty and staff. Faculty requirements are advertised in leading newspapers, and the interview process is conducted by a Staff Recruitment Committee led by the Principal. Selection and

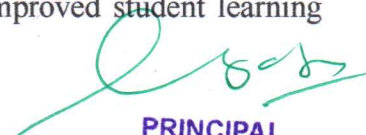
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appointments are based solely on merit. Recruited faculty undergo performance reviews for three consecutive academic years by academic experts, who provide critical feedback and suggestions for improvement.

- Since many individuals join educational institutions as faculty immediately after completing their postgraduate studies, often without formal teacher training, KITS has developed a systematic approach to enhance faculty technical expertise and English communication skills. Guided by feedback from the IQAC, this approach emphasizes "Faculty and Education Development," focusing on academic strengthening and advancement. The goal is to ensure that the education provided equips learners to excel academically, perform well in competitive exams, and succeed in placements.
- To enhance faculty knowledge in Artificial Intelligence and IoT, equipping them with cutting-edge skills.
- To improve instructional methods and curriculum content for better student learning outcomes.
- To enable faculty to support advanced research and innovation in emerging technology areas.
- To provide students with hands-on experience in Engineering designing, coding, programming skills, assembling, and fabrication
- To increase practical skills and technical knowledge relevant to electronic engineering.

The evidence of the Successes

- Faculty members are systematically trained in technical skills and English communication, guided by IQAC's input, which strengthens academic quality. This development empowers faculty to enhance students' learning experiences and prepares them to excel in academics, competitions, and placements.
- Faculty receive specialized training in areas like Artificial Intelligence and IoT, equipping them to bring cutting-edge knowledge into the classroom, support curriculum improvement, and foster research and innovation in new technology fields.
- With improved instructional methods and curriculum content, faculty are better able to deliver effective, up-to-date education, contributing to improved student learning outcomes.


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