



MarathwadaMitraMandal's
COLLEGE OF ENGINEERING
S. No.18, Plot No.5/3, Karvenagar, PUNE - 411 052
Accredited with 'A' Grade by NAAC
Recipient of "Best College Award 2019" by SPPU
Accredited Mechanical and Electrical Departments by NBA

INSTITUTIONAL BEST PRACTICES

Best Practice – I

1. Title of the Practice – Professional Skills exposure to students

2. Objectives

Objectives of this best practice are to enhance the professional skills of students to improve their employability and organize training programs to motivate students for higher education and Entrepreneurship. So as to empower them with current Industry needs and job requirements.

3. The Context

Industry needs are frequently changing, and technologies are rapidly updating. Students must be aware of these changes and update their skill sets. Though the students are good in academics, few of them are lacking in presentation and technical skills. They are needed to be groomed in technical as well as presentation aspects so that they can fulfil soft skill requirements in Industry. Hence, a Technical Event functional committee is formed at the Institution level, in which the functional head and a faculty representative from each Department are actively working to achieve the objectives.

4. The Practice

Enhancing out of box thinking of students is a noteworthy point of this practice. Efforts taken for the same are mentioned as follows:

- Organizing University sponsored workshops on emerging technologies for faculty members and students
- Students enthusiastically participate/ publish their ideas in National/International Conferences and Journals.
- Expert/Guest lectures are frequently conducted for students by Industry Professionals to impart knowledge of the latest trends in Industries.

- Technical events are organized to improve the professional and technical skills of students to enhance their employability.
- Faculty members and students are active members of professional bodies like ACM, IEEE, CSI, ISTE, SAEINDIA, ISHRAE, ASHRAE, IEI, QCFI, IAENG, ISRD, etc.
- Various student associations such as ITSA, MESA, ACES, BETA and EESA are formed. Technical and non - technical events are organized under the dynamic leadership of student coordinators of each student association.
- Every Department conducts add-on courses/certification courses for students to enhance their technical skills.
- Industrial visits are organized to understand the professional work culture of Industries.

5. Evidence of success

- “Team Achilles” secured AIR 1st and won the best CAE award in Efficycle event held on 17th October 2021 and 13th November 2021. Team Achilles also won total prizes worth Rs 35500/-.
- “Team Abhedya Racers” secured AIR 8th in overall event, AIR 6th in Cost and Manufacturing event, and AIR 8th in Design Event in FORMULA BHARAT competition held at Coimbatore from 20th to 25th January 2022.
- “Team Abhedya” participated in BAJA SAEINDIA 2022 competition held from 4th to 10th April 2022 at Pithampur, Madhya Pradesh. Team Abhedya secured AIR 5th in sales event, AIR 6th in Suspension and traction event, AIR 12th in CAE event, AIR 18th in Overall static event.
- Soham Pingat, Chinmay Mahagaonkar, Aayush Gavande BE Computer Engg. students received “Best Paper Award” in IEEE Conference.
- Team Rudra of ROBOCON won “Best Aesthetic” award of Rs 50,000/- in National ROBOCON competition held on 16th and 17th July at IIT, Delhi.

6. Problems Encountered and Resources required

- It is difficult to find the right person from the Industry who can authoritatively deliver sessions on the latest technologies. It is challenging to maintain a balance between academic activities and technical event activities.
- Some students are from vernacular backgrounds and have poor English communication skills, which need to be improved.

1. Title of the Practice: ‘Industry Institute Interaction’

2. Objectives

The main objective is to establish and maintain relationships with the corporate world through MoUs, Center of Excellence, sponsored projects, industrial visits and in-plant training programs for students and faculty members.

3. The Context

The institution has taken the initiative to interact with various industries through the Industry Institute Interaction committee that maintains professional relations with industries. Industrial visits are arranged for students and faculty members to gain practical exposure and keep abreast of their knowledge. To achieve academic excellence, students are encouraged to interact with industries and research organizations through FDP, industrial visits, sponsored projects, training programs, internships, consultancy etc. Industry professionals are regularly invited to share their knowledge with the students. It opens up a fresh avenue for enthusiastic young minds and faculty members to develop skills across diverse areas, including managerial skills, social responsibilities and Industry liaison.

4. The Practice

To strengthen the Industry Institution Interaction, Institution is a member of reputed Industry professional bodies like MCCIA, CII etc. The Institution has established the Make It Happen Center for Invention, Innovation and Incubation (MCIII). MCIII is established in collaboration with Tata Technologies Ltd. and Science and Technology Park. The main motto behind the MCIII is enabling domain exploration through working principles, application and hands-on experience to make students deployable. It facilitates training, manufacturing, R&D activities, incubation center and many more. The industrial liaison program is aimed at developing meaningful relationships with industries to create and strengthen mutually beneficial relationships between Institution and Industry.

- **Faculty Development Program** – To upgrade professional skills, various FDPs are conducted which includes interactive sessions by Industry experts and Industry workshops/ training.
- **Student Development Program** – For the overall development of students, various programs are conducted like personality development, career counseling, technical competitions, industry training programs, industrial visits, add on courses etc.

- **Curriculum Review** – The Institution has constituted an Academic Advisory Board which comprises experts from various industries. Their suggestions are incorporated into the curriculum through different add-on courses/guest lectures.
- **International Linkages** –The institution is trying to build International linkages by availing membership of professional bodies, MoUs with various Industries and partnership between Industry and academia through consultancy. MoUs are signed with various companies and different activities such as project sponsorships, competitions, seminars, workshops and technical events are conducted.

5. Evidence of Success

Some major outputs are listed below:

Branch	Number of Sponsored BE Projects	Number of MoUs Signed	Number of Guest/Expert Lectures Conducted	Industrial Visits
Computer	7	6	17	01
Electrical	01	06	06	03
E&TC	09	05	10	03
IT	14	03	24	01
Mechanical	15	04	05	04

6. Problems Encountered

- Industry expects students to work full time for sponsored projects which is not feasible due to academic schedules.
- Sometimes it is a hurdle to call speakers from prominent companies for expert sessions because of their busy schedules.