



## INSTITUTIONAL BEST PRACTICES

### Best Practice – I

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

#### 2. Goal

Objectives of this best practice are to enhance professional skills of student to improve their employability and organize trainings 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, technologies are rapidly updating. Students must be aware about 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, Technical Event functional committee is formed at the Institution level, in which functional head and faculty representative from each department are actively working to achieve the objectives.

#### 4. The Practice

Enhancing out of box thinking of students is 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 for imparting knowledge of latest trends in Industries.
- Technical events are organized to improve professional and technical skills of students to enhance their employability.
- Faculty members and students are active members of professional bodies like ACM, 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 co-ordinators 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 professional work culture of Industries.

## **5. Evidence of success**

- ISTE student chapter received “ISTE Best Student Chapter” award for Maharashtra & Goa Section for 2018-19.
- ISHRAE student chapter received “Most Promising Student Chapter” award from ISHRAE, Pune Chapter
- ISTE and ACM student chapters has organized inter-collegiate Hackathon “Hacksprint v 1.0”, 36 hours coding competition on 22<sup>nd</sup> - 24<sup>th</sup> March 2019.
- ISTE Students’ Chapter in collaborated with ISTE Students’ Chapter Maulana Azad National Institute of Technology (MANIT) Bhopal has conducted national level Quiz competition “Chimera-X’s” banner on 1<sup>st</sup> February, 2019.
- Ms. Pooja Kad from E&TC department has successfully completed “Japanese Language NAT-TEST” with International Level test Grade A.
- Mr. Ameya Darekar and Mr. Aditya Kulkarni, TE Computer students secured second rank at “Hackathon (CSI)” held at MIT WPU.
- Mr. Soham Bhave won 3<sup>rd</sup> prize at “E-yantra” National Level Robotic competition at IIT, Bombay.
- Mr. Adarsha Surkunde & Mr. D. Palave from Mechanical department has secured 3<sup>rd</sup> prize in paper presentation at TECHNOCHILL 18-19 organized at COEP.
- Electrical department organized ‘Resume Writing’ competition under EESA students Association.

- Students' Association 'ITSA', IT Department has organised "Thinkathon2018" technical event on 29<sup>th</sup> Sep 2018.
- SUPRA SAEINDIA team of MMCOE secured 24th rank among 125 teams all over India.

## **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 background and have poor communication skills in English which needs to be improved.

## **Best Practice – II**

### **1. Title of the Practice: 'Industry Institute Interaction'**

#### **2. Goal**

Main objective is to establish and maintain relationship with corporate world through MoUs, Center of Excellence, sponsored projects, industrial visits and in-plant trainings for students and faculty members.

#### **3. The Context**

Institution has taken initiative to interact with various industries through 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 their knowledge. To achieve academic excellence, students are encouraged to interact with industries and research organizations through FDP, industrial visits, sponsored projects, trainings, internships, consultancy etc. Industry professionals are regularly invited for sharing their knowledge with the students. It opens up a fresh avenue to young enthusiastic 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, DICCI, IGCC etc. Institution is a member of Education

Excellence Forum under CII. Including MMCOE, CII has shortlisted three Institutions in SPPU which provides numerous interventions, architected solutions, recommendations and training to academia throughout the year. EEF focuses on faculty development program, student development program, curriculum review, and international linkages. Industrial Liaison program is aimed at developing meaningful relationships with industries to create and strengthen mutual 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/ trainings.
- **Student Development Program** – For 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 Academic Advisory Board which comprises of experts from various industries. Their suggestions are incorporated into the curriculum through various add-on courses/guest lectures.
- **International Linkages** – 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

- Tata Technology Ltd, Science and Technology Park and Marathwada Mitra Mandal jointly established Center for Innovation, Invention and Incubation (MMCIII) .
- Fourteen students from E&TC Department got internship at Local Machines, Pune in Embedded PLC domain.
- Eight days workshop on “Applied Psychrometry & Heat Load Calculation” by Mr. Ranade, Adjunct faculty, MMCOE was organized by Mechanical department.
- Ms. Sharanya Nair(BE COMP) placed in "DIVA CORPORATION" Tokyo, Japan with a package of 40 lac ₹ (26 Lacs INR)
- Institution has strong Industry connect through which students get project sponsorship. Industry sponsored project count for various departments are Mechanical : 22 , E&TC : 12, Computer : 20, IT: 04 , Electrical: 02

- Each department has MoUs with various well known Industry. Number of MoUs with various departments are Computer:14, Mechanical: 11, IT: 5, MBA: 2, Electrical: 4, E&TC: 3.
- Electrical department organized guest lecture on “Solar Thermal and Technology and Market Trends” by Mr. Sahebrao Satpute, Chairman, RUDAI.
- Electrical department organized Industrial Visit for 60 SE students on 13<sup>th</sup> February 2019 at TransFab Power Pvt. Ltd. At Mulshi, Pune.
- ACES , student association of Computer department organized add-on course on “ Advance Data Structure using C++” by Mr. Visha K. Sahu, Sr. S/W Developer, ExtremityIndia Technologies, Pune for SE students on 2<sup>nd</sup> March 2019.
- Electrical department organized two days Industrial Visit for 57 SE students at “Bhira Hydroelectric Power plant and Automatic Electric Ltd” on 4<sup>th</sup> - 5<sup>th</sup> Sep 2018.
- Mechanical department organized industrial visit at Acrex at Mumbai.

#### **6. Problems Encountered –**

- Sometimes it is a hurdle to call speakers from prominent companies for expert sessions because of their busy schedule.
- Lack of sponsored project for final year students.

**PRINCIPAL**