

## **Best Practice No: 01**

**Title of the Practice:** Encouraging students to participate in state and national level technical competitions.

**The Context:** The students are the main stakeholder of the educational institute so the prime focus should be on the student's development. The institute encourages the students to develop the various technical skills to face the competition at state level or national level. Due to the participation in different competitions the students will learn a lot of things. They can become more competitive by learning the different advanced technologies. Therefore, the institute is supporting persistently to the students to participate in the technical competitions.

### **Objectives of the practice:**

- To promote the students to participate in state and national level technical competitions.
- To develop the skill of innovative thinking.
- To develop the skills of working in a team or a group.
- To encourage the students to present their idea or project model effectively in the competition.
- To learn the emerging technologies.

**The Practice:** The institute or department makes the announcement regarding the technical competitions among the students well in advanced. The departmental coordinator collects the information about the interested students and makes the group or team and submits the details to institute level coordinator for further processing.

The institute level coordinator submits these proposals to the Principal. The Principal examines and verifies the proposals and selects the eligible and suitable groups or teams. The selected groups or teams will be asked to participate in the competition. The institute provides the monetary support to the eligible groups or teams.

The institute appreciates the efforts of the competition winners and their guides.

### **Evidence of Success:**

The certificates and trophies of the participants are collected and maintained at the respective department. Also, some models are displayed in the respective department.

### **Obstacles faced if any:**

Some project (MH08 Formula car) required more fund for designing the car and participating into international competition so the fund is raised by sponsorship and support from the teaching and non-teaching faculty members.

### **Impact of the practice:**

The students have participated in various competitions and won the prizes. Following are the some competitions in which our students have participated.

International Level Participation & Awards:

- Formula Student United Kingdom 2019 awarded Team MH-08 Racing by the award "Craig Dawson Most Valuable Team Member Award" on 20th July 2019.
- Team MH08 Racing to represent India at formula student UK – 2019

#### National Level Participation & Awards:

- Winner of Lightest race car of India in the year 2018, held at Kari Motors Speedway, Tamil Nadu. Also, winner of Best Design of Car.
- Team MH-08 Racing has got **27th National Ranking** among 70 teams by Formula Bharat 2020 on 28th January 2020.
  
- Formula Karting Design Championship (FKDC3) Pune2019
  - 8th Rank - In Design Report
  - 7thRank - In Cost report
  - 8th Rank - Skid-Pad Test
  - 11th Rank - Out of 60 teams
- Formula Karting Design Championship (FKDC4) Coimbatore 2019
  - 2nd Rank - In Design & CAE Report
  - 2nd Rank - In Cost Report
  - 2nd Rank – Autocross Test
  - 5th Rank - Out of 48 teams
  
- AICTE-ECI-ISTE Chhatra Vishwakarma Awards-2018.
  
- Formula Bharat 2020.
  - Formula Student EV Concept Design Challenge 34th rank
  
- AUTO INDIA RACING CHAMPIONSHIP (PUNE) 2023
  - TFT (Team Full Throttle) received 3<sup>rd</sup> rank
  - Best Captain award
  
- GO KART DESIGN CHALLENGE(COIMBATORE) 2024
  - 9<sup>th</sup> rank- All over India
  - Best Captain award

#### State Level Participation & Awards:

- Avishkar Research Convention 2021-22, University of Mumbai
- Avishkar Research Convention 2020-21, University of Mumbai.
- Avishkar Research Convention 2019-20, University of Mumbai.
- Avishkar Research Convention 2018-19, University of Mumbai
- Avishkar Research Convention 2017-18, University of Mumbai
- A National level event sponsored by BHARAT FORGE- RIT Hackathon - 2K19.
- SMART INDIA HACKATHON 2019.
- SMART INDIA HACKATHON 2023
- SMART INDIA HACKATHON 2024
- Hackceltial 2024 (Software edition)

#### Resources Required:

The respective department laboratories with required amenities, library and faculty advisor.

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## **Best practice No: 02**

**Best practice:** Promoting students to undergo the Industrial Internships.

**The context:** The sole objective of internship is to create awareness about the latest trends in industries and also provide opportunity to complete the final year project work based on industrial requirements. The internship may be in the form of Skill based training/Mini Projects/Project based Learning/Task oriented internship etc.

Engineering being a professional education programme needs exposure to the latest developments in Industries and bridge the gap between Industry and Academia. The students are learning various technical subjects during their curriculum. To understand the practical implications of the theoretical concepts, it is necessary to undergo Internships/Industrial Training in variety of organizations /Industries. Many universities curriculum itself is blended with specific credits assigned to Industrial training. Unfortunately, University of Mumbai curriculum lacks this component. Hence, RMCET has taken the initiative to promote the students to undergo Industrial Internships after Second- and Third-year exams.

### **Objectives of the practice:**

RMCET has started the policy of promoting the students to undergo Industrial Internships with the following objectives:

1. To understand the practical implications of the theoretical technical concepts.
2. To create awareness among students about the latest trends and developments in technology.
3. To encourage students to select their final year project based on the industry requirements.
4. To bridge the gap between industry and academia.
5. To inculcate professionalism in the students by observing the working culture and industrial protocols.
6. To enhance the employability of students.

### **The practice:**

The process of promoting the students to undergo industrial training is carried out in following manner.

1. Industry Institute Interaction Cell has been established at RMCET to promote the industrial training and internships to students.
2. Notifying the students of Second- and Third-year engineering in the month of March to identify the probable industries wherein they are willing to undergo Industrial training.
3. Industry Institute Interaction Cell Coordinator of every department receives the applications for industrial training letter and issues the letters to the concerned students.
4. Students undergo the industrial training for minimum two weeks duration during December and June/July month after completion of their Odd and Even semester university examinations.
5. The Industry Institute Interaction Cell Coordinator of every department receives the industrial training reports from individual student in the month of August.
6. In consultation with the HOD, Industry Institute Interaction Cell Coordinator of every department conducts the presentations of industrial trainings in the month of September/October to verify the learning outcomes through the industrial training.

### **Obstacles faced if any and strategies adopted to overcome them:**

Following are the obstacles faced:

1. As Industrial Internship is not included in the university curriculum, there is a casual approach and ignorance from students.
2. The region in which college is situated is geographically remote and has very few industries which makes it difficult for students to undergo industrial Internships.
3. Industries are not showing much interest in extending the industrial Internships to students.

Strategies to Overcome the obstacles:

1. Counselling the students through various interactions regarding the importance of industrial trainings.
2. Encouraging students for industry-based projects for final year.
3. Maintaining relationship with the authorities at various industries through Industry Institute Interaction Cell.

### **Impact of the practice:**

The policy of promoting the students to undergo industrial training has been well received by students and more than 60% students are undergoing the industrial training regularly. Few students have received final year projects based on the actual industrial requirements.

- Academic Year 2019-2020- Total 45 students have completed internship
- Academic Year 2020-2021- Total 30 students have completed internship
- Academic Year 2021-2022- Total 161 students have completed internship
- Academic Year 2022-2023- Total 105 students have completed internship
- Academic Year 2023-2024- Total 135 students have completed internship

### **Resources required**

NA

### **Contact person for further details**

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