

## **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 stakeholders of the educational institute. So, the prime focus should be on the students' 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 skills of innovative thinking.
- To develop the skills of working in a team or a group.
- To encourage the students to present their ideas or project models effectively in the competitions.
- To learn the emerging technologies.

**The Practice:** The institute or department makes the announcement regarding the technical competitions among the students well in advance through R&D Cell and Student Council. 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 projects (like, Team MH08 Formula student car) required more funds for participating in an international competition. So, the funds were raised through sponsorship and support from the teaching and non-teaching faculty members as well as Alumni.

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

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

- Avishkar Research Convention 2018-19, University of Mumbai
- A National level event sponsored by BHARAT FORGE- RIT Hackathon - 2K19.

- SMART INDIA HACKATHON 2019.
- AICTE-ECI-ISTE Chhatra Vishwakarma Awards-2018.
- Team MH08 Racing to represent India at formula student UK – 2019.
- Winner of most Lightest race car of India in the year 2018, held at Kari Motors Speedway, Tamil Nadu. Also, winner of Best Design of Car.
- Formula Student United Kingdom 2019 awarded Team MH-08 Racing by the award “Craig Dawson Most Valuable Team Member Award” on 20<sup>th</sup> July 2019.
- Team MH-08 Racing has got 27th National Ranking among 70 teams by Formula Bharat 2020 on 28<sup>th</sup> 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
- Avishkar Research Convention 2020-21, University of Mumbai.
- Formula Bharat 2020.
  - Formula Student EV Concept Design Challenge 34th rank
  - Robo cart Developed for use at covid-19 treatment center.

### **Resources Required:**

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

### **Contact Details:**

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## **Best practice No: 02**

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

**The context:** Engineering being a professional education programme, it needs exposure to the latest developments in Industries and it is also required to bridge the gap between Industry and Institute. 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 in variety of organizations/Industries. Curriculum of many universities is blended with specific credits assigned to Industrial Internships. In the University of Mumbai curriculum this provision is not yet implemented. Hence, RMCET has taken the initiative to promote the students to undergo summer and winter Internship 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 Institute.
5. To inculcate professionalism in students by observing the working culture and industrial practices.
6. To enhance the employability of students.

### **The practice:**

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

1. Industry Institute Interaction Cell has been established at RMCET to promote the industrial Internship 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 Internship.
3. Industry Institute Interaction Cell Coordinator of every department receives the applications for undergoing the industrial Internship and issues the letters to the concerned students.
4. Students undergo the industrial Internship for minimum two weeks duration during summer and winter vacations after completion of their university examinations.
5. The Industry Institute Interaction Cell Coordinator of every department receives the industrial Internship reports from individual student after completion of their internship.
6. In consultation with the HOD, Industry Institute Interaction Cell Coordinator of every department conducts the presentations of industrial Internships to verify the learning outcomes through the industrial Internship.

### **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 around which makes it difficult for students to undergo industrial Internship.
3. Industries are not showing much interest in extending the industrial Internship to students.

**Strategies to Overcome the obstacles:**

1. Counselling the students through various interactions regarding the importance of industrial Internships.
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 Internship has been well received by students and more than 60% students are undergoing the industrial Internship regularly. Few students have received final year projects based on the actual industrial requirements.

**Resources required**

NA

**Contact person for further details**

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