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(Approved by the AICTE, Recognized by DTE (Mah.) and affiliated to Savitribai Phule University of Pune)

## Best Practices

### 7.2.1 Describe at least two institutional best practices (as per NAAC Format)

#### Response:

#### Best Practice I

#### Title of the Practice: Curriculum ++ (Powered Curriculum)

#### Objectives of the Practice:

1. To improve the Employability readiness and Technical competence of students
2. To offer activities and projects in order to encourage Innovation and Research among the students
3. To further enhance the Experiential Learning aspect of the existing Curriculum

#### The context:

One of the core objective of the DYPIMCAM is to “Focus on Students’ Development”. As Employers expect students to be job ready and possessing good Technical Knowledge, Communication Skills etc. we offer a host of Technical Certificate Courses, Value added courses and allied activities.

#### The Practice:

The following efforts and initiatives are taken to enhance the Technical Competence and of the students:

#### Certificate Courses by External Agencies:

- IIT Bombay Spoken Tutorial Certification exam held in academic year 2019-20. Examinations were conducted for various technical subjects such as Introduction to Computers, C Language, CPP, Core Java, Joomla. Total 363 students of MCA successfully qualified the exam and received the certificate.
- Internal Hackathon was organized on 20<sup>th</sup> February 2020. There were 17 students participated for this event. Mr. Syam Kumar, Connexis Pvt. Ltd was judge for this event. Total 5 teams were nominated for Smart India Hackathon 2020.
- Institute organized Microsoft Certification examination on R Programming MCA I and MCA-II year students on 9th January 2020. This examination was conducted by Microsoft Authorized Education Partner and eligible students got certificate from Microsoft.
- Webinar on “Agile Methodology” organized was held on 11th May 2020 on Zoom Meeting App. Mr. R. Vaidhyanathan, Jile Product Consultant, TCS was the Speaker for the webinar. Total 431 participants attended the webinar from across India.

- Institute has organized Courses on ‘Communication Skills’ ‘Presentation Skills’ and ‘Email Etiquettes’ were organized in association with TCS iON Digital Learning Hub from 25<sup>th</sup> March to 29<sup>th</sup> March 2020. Total 32 MBA students got certification from TCSiON Digital Hub.
- Value added course on R Programming was conducted for MCA students, from 2<sup>nd</sup> December 2019 to 5<sup>th</sup> January 2020.
- Value added course on Use of Statistical Package for Social Science for Data Analysis conducted for MBA students from 15<sup>th</sup> December 2019 to 5<sup>th</sup> January 2020.

**Evidences of Success:**

- Total 363 students of MCA successfully qualified the IIT Bombay Spoken Tutorial Certification exam and received the certificate.
- 5 teams of MCA students were nominated for Smart India Hackathon 2020
- 431 participants attended Webinar on “Agile Methodology” from across India.
- 32 MBA Students got certified in Presentation skills, E-mail etiquettes and Communication Skills
- 53 Students got trained on SPSS. Students will use SPSS in data presentation and data analysis.

**Problems Encountered:**

- It is difficult to accommodate the Training and Certification Programs in the tight framed yearly Academic Calendar of the University.
- Making appropriate resource persons available to conduct workshops and seminars due to their own professional commitments.

**Resources Required:**

- Well-equipped Computer Labs
- ICT-enabled Seminar halls
- Availability of Eminent Resource persons from Industry and Academia.

## **Best Practice II**

### **Title of the Practice: Differential Monitoring and Mentoring**

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

1. To help the students identify their niche area of specialization in keeping with the current multidisciplinary approach to Higher Education.
2. To manoeuvre the personal and professional growth of students.
3. To strengthen the bonhomie w.r.t to trust, accountability and mutual understanding between the mentor and mentee.
4. To counsel and guide students to further encash their strengths and overcome their Weaknesses

#### **The context:**

In today's competitive era, students are overburdened with academic pressures, parent's expectations and peer pressures. Thus, in order to assist them in combating these pressures, the Institute has introduced the differential monitoring and mentoring practice.

#### **The Practice:**

The following efforts and initiatives are taken for monitoring and mentoring the students:

##### **Guardian Faculty Member**

This practice enables the faculty members to be second parents to a selected group of students and hence the faculty member is called as Guardian Faculty Member (GFM). At the commencement of every academic year, each faculty is assigned a batch of 20 students, wherein the faculty takes the responsibility of mentoring, counselling and grooming these students on the personal and professional front.

The responsibilities of the GFM includes:

- Monitoring of the students attendance
- Monitoring of students performance
- Counselling of students
- Communication with parents
- Periodic meetings with students
- Information communication to the higher authorities

##### **Student Counselling Day (SCD):**

One day every semester is allocated as SCD wherein the Head of the Department interacts with students one on one. The HOD counsels the students on physiological problems, strategies to cope with challenging situations, areas of improvement, and guidelines for successful careers etc. This activity helps the students in understanding themselves better and develop a rapport with the HOD.

##### **Letter to Parents**

It is essential to communicate students' progress to their parent consistently. In view of this, letters depicting academic progress, status of assignment submission, competency based activity,

project completion status, college re-opening date, parent-teacher meeting date etc. are sent to the parents at the end of every semester.

#### **Open House Session**

In this session all the students are made to sit in a class and all the faculty members are made to sit in front of them as a panel. The faculty coordinator opens the session by appealing the students to share their problems and concerns regarding overall functioning of the department. Accordingly, the students give their inputs which are noted down by the faculty coordinator as minutes of the meeting for further actions.

#### **Evidences of Success:**

- Improvement in student Attendance
- Positive Behavioral Change in Students.
- Social Values imbibed in students.
- Enhanced academic performance of the students
- Improved placements.
- Proactive participation of students in Co-Curricular and extra-Curricular activities.

#### **Problems Encountered**

- Students take time to share their concerns with faculty members.
- Parents are found to be casual in their approach of handling the problems faced by their wards.

#### **Resources Required**

- ICT enabled classrooms for counselling sessions
- Dedicated Time Slot for GFM meeting and counselling.

### **Best Practice III**

#### **Title of the Practice: IIT Bombay Virtual Lab Activity**

Under the guidance of Dr. K. Nirmala, Director and Dr. Kavita Suryawanshi, HOD, Nodal Coordinator, we our Institute is approved as IIT Bombay Virtual Lab Nodal center 42. The main motivation behind is this can, at-the-best, provide an approximate version of the 'real-world' experiment. Providing measured data for virtual lab experiments corresponding to the data previously obtained by measurements on an actual system.

#### **Evidences of Success:**

- Students got an opportunity to revise and explore knowledge about the fundamentals concepts from various subjects like Data Structure, Programming languages, Software Engineering, Database as well as English communication.
- Virtual Lab Tests really helped student during the pandemic situation also. Giving students an experience of performing lab using very user friendly computer interfaces helped students to give essence of their practical sessions. More than 200 Students got benefitted from Virtual lab.

#### **Best Practice IV**

##### **Title of the Practice: Upskilling and Enrichment Programs**

##### **Objectives of the Practice:**

- 1.To improve the Employability readiness and Technical competence of students by offering them Certificate Courses in the current IT and Management technology.
- 2.To offer activities and projects in order to encourage Innovation and Research among the students.
- 3.To encourage students to apply and explore curriculum through experiential learning.

##### **The context:**

A practice placement has a direct bearing on your ability to work effectively and integrate theory to practice. It is important to ensure that students are getting proper supervision and support towards their preparation for placement and provide to provide a high quality learning environment.

##### **The Practice:**

The following efforts and initiatives are taken to enhance the Technical Competence of the students:

- Online Quiz Series and Programming Test Series on various fundamental subjects such as Data Structures, Aptitude, DBMS and PLSQL, Java, PHP, Python, JavaScript/ CSS/ HTML and Case Study on PLSQL were conducted for third year MCA students from 8<sup>th</sup> July - 19<sup>th</sup> July and 12<sup>th</sup> August – 23<sup>rd</sup> September 2019.
- Forum Activities – Field work was assigned to MBA students according to their program specializations. Students completed Data collection and Data analysis from 10<sup>th</sup> January to 27<sup>th</sup> March 2020.
- Up-skilling activities- ‘Lakshya Activities-Series’ conducted for MBA students from 11th January to 28 March 2020. Activities comprised of Presentations, Group Discussion, Mock Interviews, Role Plays, Business Quiz.

##### **Evidence of Success-**

- Online Quiz Series helped students to get prepared for Placement technical aptitude rounds.
- Programming Test Series exposed students to programming skills required to solve real world problems.
- Field works conducted under forum activities exposed students to real life problems. Students learned the possible barriers in Survey method for data collection. Students got hands on experience on Data collection and Data analysis.
- Lakshya Activities helped students to boost their confidence and overcome their stage fear and public speaking fear.



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