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 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 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" which in turn plays a key role in the growth of the Institute. This is because, we consider students as the most essential and crucial stakeholder of the Institute. As Employers expect students to be job ready and possessing good Technical Knowledge, Communication Skills etc. and also for the fact that our students come from diverse Socio-economic background, 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:**

Sr. No.	Title of the Course	Certifying Agency	Course Outcome	Date
1	**IIT Bombay Certificate Course** - Advanced CPP, Java, Python	IIT Bombay, Powai	IIT Bombay Certificate	29th -30th June 2021
2	**AICTE, Youth4Work, Skill based Talent Test** – Aptitude, English, C, C++, HTML, Object Oriented Programming , Core Java, DBMS, Computer Networking, Data Structure, JavaScript	Youth4Work	Certificate	15th-16th February 2021 2021,12th April 2021 1st-7th , 8th - 14th June 2021

Evidences of Success:

- **IIT Bombay Spoken Tutorial Certification Examinations**

Sr. No.	Date of Exam	Class	Subject	Appeared Students	IIT Bombay certified Students
1	29/06/2021	MCA-III (Sem V)	Advanced CPP	71	60
2	30/06/2021	MCA-III (Sem V)	Java	63	55
3	30/06/2021	MCA-III (Sem IV)	Python 3.4.3	30	19
			Total Students Participated		**134**

- **Youth4Worl Skill based Talent Tests:**

Date of Exam	Class	Subject	Appeared Students
15/2/2021	MCA-II	Core Java	33
	MCA-III	DBMS	27
		Selenium	24
		Asp. Net	22
16/3/2021	MCA-I	C	81
		C++	81
		HTML	80
12/4/2021	MCA-I	Core Java	94
12/4/2021	MCA-I	Object Oriented Programming	91
1/6/2021 - 7/6/2021	MCA-I	Aptitude	114
		English	109
8/6/2021 - 14/6/2021	MCA-I	Computer Networking	87
		Data Structure	90
		JavaScript	86

- **Value Added Courses:**
  1. **Value added course on Digital Marketing conducted for MBA students from February to April 2021- 25 Sessions.**

     Objective:
     - To make learner familiar with Digital Marketing concepts & various tools.

2	Session on 'Transformation with DevOps: The Easy Way'	Cloud Counselage Pvt. Ltd.	• To get insights of the DevOps Technology	13th February 2021
3	Webinar on 'Hello Machine Learning (ML) and Deep Learning (DL)'		• To get in-depth understanding promising of subsets of Artificial Intelligence and its application areas	13th March 2021
4	Webinar on 'Harnessing Artificial Intelligence'		• To know about Artificial Intelligence, its history and importance.	17th April 2021

Problems Encountered:
- Identifying appropriate resource persons for conducting 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 encourage students for participating in Curriculum ++, Co- and extra-Curricular activities
5. To counsel and guide students to further encash their strengths and overcome their Weaknesses

The context:

The holistic development of students is one of the KRA's of DYPIMCAM. 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 been proactive in introducing the differential monitoring and mentoring practice. Under which we have Guardian Faculty Member (GFM), Parent Teacher Meet, Counselling, and Open House Sessions etc. each of these activities are neatly recorded through reports. An impact analysis is done to further understand the important concerns of the students.

- Learner should be able to use Google Analytics & Data Studio, Email Marketing, and Content Creation

Evidence of success: Total 136 students of MBA successfully cleared the assessment test and received the certificate.

2. **Value added course on topic "Inventing HR with Artificial Intelligence" conducted for MBA students from February to April 2021- 22 Sessions.**

Objective:
- The objective of this course is to provide students with a solid foundation of incorporation of
- AI and machine learning in the HR functions.
- To incorporate such tools in the digital HR strategy
- On completing this course the students will become more fluent in understanding what are the impact of AI is on HR and how the Future of Work is impacting present and future.

Evidence of success: Total 134 students of MBA successfully cleared the assessment test and received the certificate.

3. **Value added course on "Financial Analyst "conducted for MBA students from February to April 2021- 22 Sessions**

Objective:
- Understand the fundamentals of financial statements, including how the statements link and the key accounting principles that govern them
- Analyze the balance sheet of companies and assess their position
- Adjust and consistently analyze the income statement of companies and assess their performance
- Carry out ratio analysis and assess the drivers of performance

Evidence of success: Total 23 students of MBA successfully cleared the assessment test and received the certificate.

- **Seminars/ Workshops:**

Sr. No.	Title of the Course	Organization	Objectives	Date
1	Webinar on 'Art of Resume Building'		• Help transform the resume into a powerful tool to showcase professional abilities. • Share resources for creating a professional resume	30th January 2021

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 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

IIT Bombay Virtual Labs been officially confirmed as Nodal Center in Year January 2020. Our Institute D Y Patil Institute of MCA and Management, Akurdi approved as Nodal center 42. Under the guidance of Dr. K. Nirmala, Director and Dr. Kavita Suryawanshi, HOD, Nodal Coordinator, we achieved Nodal center. 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.

The Practice:

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

GFM (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. GFM training is also done by Dr. Sapna Sharma, Spiritual Counselor, Motivational Speaker, Life Coach & Trainer.

The responsibilities of the GFM includes:
- Monitoring of the students attendance
- Monitoring of students performance
- Counselling of students
- Parent calling
- Periodic meetings with students
- Information communication to the higher authorities
- Impact analysis

Result Monitoring

The result monitoring of every student is done after declaration of Unit Test, Mid-Term, End-Term and Savitribai Phule Pune University (SPPU) examination. Based on the result analysis of Unit Test, Mid Term and End-Term examinations, slow and advanced learners are identified. For slow learners, remedial classes are conducted to improve their performance and for advanced learners various extra activities like Certificate Courses are conducted.

Parent-Teacher Meet (PTM)

PTM is conducted every semester as it plays a crucial role in enhancing the communication between parents, teachers and students. This is a platform wherein the parents understand the academic and overall performance of their ward. They get to know the faculty members personally and also develop an insight into the culture of the Institute. In these meetings the GFM, HOD and Director interact with parents and also showcase answer sheets, attendance records and achievements of students.

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.

The institute has conducted Test Series based on various fundamental subjects and technologies from 9th July to 30th July 2020. Test series covered all those subjects, technologies which are mainly asked for technical interview or technical tests. We have covered programming languages like C++, Java, Python and to make sure students has good understanding about database we have arranged tests on DBMS, SQL/PLSQL as well. Test Series also included HTML & CSS, JavaScript which are the fundamental technologies for building Web pages. These tests certainly helped students to brush up their technical knowledge.

Going ahead we have planned Programming Test Series to give students practice for logic building and problem solving using various programming language to help them improve their programming skills. While designing programming tests, faculty made it sure that students will think over and explore their programming skills to solve problem statement.

The Practice:

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

● **Academic Test Series**

Sr. No.	Course	Outcome	Date
1	Online Quiz on - Data Structures, Aptitude, DBMS and PLSQL, Java, PHP, Python, JavaScript/ CSS/ HTML	Students got practice in view of preparation for placement technical aptitude.	9th July to 30th July 2020
2	Programming Test - Data Structures, C++, Java, Python, JavaScript/ CSS/ HTML , Case Study on PLSQL	Students got to explore programming skills to solve various real world problems.	3th 5th 7th 10th August 2020 11th, 14th September 2020

Evidences of Success:

Feedback collected from students and students and following points were highlighted.
1. Students got revision of fundamental concepts which they learned from their first semester.
2. Test Series gave students a platform where they can discuss their queries and doubts with subject in charge and prepare for the subject.
3. Problem statements designed for programming test series tested students' logic building ability and problem solving skills.
4. Students' preparation for Test series helped them for placement activities.

● **Employability Enhancement Skills Program organized by MBA**

▪ To encourage the all-round development of students by focusing on Soft Skills.

In A.Y 2020-2021 (Jan-June 2021) we planned this V Lab for several subjects like, Java Programming, Data structures and Algorithm, Network technology, Computer Programming Lab, Artificial Neural Network, Natural language Processing, Queuing Model etc.

Following is the actual usage of Virtual Labs activities carried throughout the semester:

Sr. No	Month	Total Usage
1	July	195
2	August	235
3	September	671
3	October	226
Total		**1327**

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.

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.
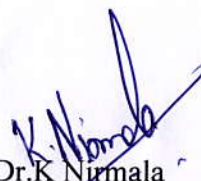
- To make the management students aware of the importance, the role and the content of soft skills through instruction, knowledge acquisition, and practice.
- To develop and nurture the soft skills of the students through individual and group activities.
- 134 students of MBA successfully cleared the assessment test and received the certificate

- **Employability Enhancement & Project Management Workshop organized for MBA**
  MBA(1st & 2nd Year) & PGDM Students Topic-

  Project Management & Current Trends in Project Management
  Industry Expectations from MBA Graduates & Leadership Skills

  The workshop aims to foster concepts of Project Management, current trends in project management and also industry expectation from MBA / PGDM graduates. The workshop was conducted by industry stalwarts and gave first-hand information about projects, problems faced during handling projects, how to handle multiple projects etc. During the workshop, students were also informed about the industry expectations from fresh MBA / PGDM graduates.

Dr.Kavita Suryawanshi
HOD(MCA) & Vice-Principal

Dr.K Nirmala
Director