BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Bangalore-560064

Report on Open course 2021-22

Preamble: Programme Outcomes (POs) are the accomplishments of graduates of a programme immediately after their graduation. POs are formulated broadly based on knowledge, skill and attitude. Knowledge and skills are imparted through the curriculum. In principle, the curriculum, pedagogy and assessment should support the attainment of this set of outcomes in order to make the programme a truly outcome-based one.

Curriculum mapping is a tool for checking the extent to which the outcomes are achieved. A curriculum mapping can be conceptualised as an analysis of the provision of opportunities for learning in a curriculum in relation to the curriculum's intended learning outcomes. By constructing a curriculum map, you will have an overview of how far and where in your programme each intended outcome is being addressed. We can then determine whether the learning opportunities provided are sufficient and in appropriate sequence so that adjustments can be made accordingly.

Value Added Programs / Open Courses: These are additional (over and above the curriculum) courses where the faculty/department can offer to bridge the gap found in the curriculum. These courses add value to the existing courses which enable the students acquire all the graduate attributes (POs) to become successful professionals. Therefore open course conduction for this semester as per Calendar of events was decided between **13.6.2022 to 17.06.2022.**

I. Initiation:

There may be some gaps in the curriculum prescribed by the university. Hence, identifying the gaps based on Programme Outcomes (POs) /Graduate Attributes (GAs) of the UG/PG programme was taken up. The PAC (Programme Assessment Committee) of the department was asked to adopt the following procedure for identification of gaps and to decide the Value-Added Programmes / Open courses (VAPs):

- *The departments (PAC) to discuss the **additional learning** requirements (Open Courses) for the students/representatives of each semester to bridge the gaps of curriculum.*
- *Programme Assessment Committee (PAC)to hold the meetings with the faculty members to decide or identify the required VAPs/Open Courses.*
- *PAC to identify the appropriate resource persons / experts to teach the value-added programmes/Open courses*
- *Approval of the **additional learning** requirements (Courses) by Internal Quality Assurance Cell (IQAC) / Principal to ensure quality is essential.*

II. Implementation of Open-Course(Instruction given to the Departments):

- Depending on the nature of the course, the teaching methodology may be adopted.
- Minimum of 25 hours should be engaged (with Maximum hands-on sessions).
- 50% of the experts / resource persons must be from Industry(external). Remaining 50% from the hosting department (Internal). Remuneration/TA for external experts may be paid as per the institutional norms. There shall be no remuneration for internal experts.
- There shall be minimum of 10 students and maximum of 60 students.
- Information about the course had been notified to all the students of the institute well in advance.

Note:

- *Each department had identified and nominated the coordinator (Faculty member) for Open Courses.*
- *Open Course was made mandatory for all the students of BMSIT&M.*
- *Registration of the courses were through ONLINE. Maximum permissible number of students for each course is 60.*

Following procedure were asked to follow in conducting VAPs/Open Courses:

- Request letter / mail along with the course contents of the Open Course from the department to the expert/resource person shall reach at least two weeks prior to the event.
- Receiving the acceptance from the Expert / Resource Person with his requirements (Lab/ICT).
- HoDs to arrange the required lab facilities / Infrastructure.
- Share the contents of the course with the students well in advance.

III. Impact Analysis to be done:

- Quiz/Assignment/Test was conducted on 5th day (Friday) of the Programme, and the results was considered for PO attainment of the programme.
- Feedback from the students on the quality of the course delivery was taken.

Note: All the supporting documents of each phase (Initiation, Implementation and Impact Analysis) must be maintained in the Department.

SCHEDULE of the Open-course Execution:

- Conduction of PAC meeting to identify the gaps (To decide the Courses): **25.5.2022**
- Identification of Courses and preparation of Course Contents: **26.5.2022**
- Define the Course Outcomes (COs) and mapping to POs: **26.5.2022**
- Identification of resource Persons (Industry): **28.05.2022**
- Duration of Conduction: **13.6.2022 - 17.6.2022**
- Assessment and Evaluation (Test/Quiz and Feedback): **17.6.2022**
- Online Registration Opens on: **30.05.2022**
- Registration Fee (decided by the Department): **28.5.2022**
- Brochure printing and publicity by the department : **30.5.2022**

No. of Courses to be offered by the departments were decided as follows:

SL.NO	DEPARTMENT	COURSE TITLE	Students Registered	Students Attended
1	ECE	Software Testing	12	13
2		Network, Communication and IoT	27	25
3		Artificial Intelligence in 5G Technology	18	18
4	CSE	Cyber Security	62	56
5		Python for Machine Learning	60	62
6		Java for Placements	62	62
7		Mobile Application Development	62	56
8		Cloud Computing	53	50
9		Full Stack Web Development	92	95
10		Internet of Things	49	49
11		Web Technology	45	7
12	ISE	Deep Learning - Building Conversational AI Applications	60	25
13		Introduction to Python Application Programming	60	26
14		Placement for IT Career	60	34
15		Internet of Things	65	55

16		Programming in JAVA and C++ with practical approach	60	30
17		Data Analytics -Boot Camp	67	32
18		Hands on approach to Cyber Security and Cyber Forensics	62	40
19		Full Stack Web Development using Nodejs	60	47
20	AIML	Visualization of Data Analytics - Unleash with POWER BI	61	32
21		Linux System Programming	22	7
22	ME	Fusion360- A future of all Industries	63	41
23		Designing Lithium-ion Battery pack for Electric Vehicle and varied Applications	26	13
24	ETE	PCB Design, Fabrication and Testing	62	58
25		Embedded systems for IOT	29	24
26	CV	Basics of Remote Sensing and GIS	62	48
27		Home Interior Design by using REVIT Architecture	60	47
28	MATHS	GATE Mathematics	13	7

We are happy to inform that the total participants for the open courses were 1051. The experts both internal and external had put in great efforts in delivering topics that are leading technologies. This will not only enhance the student's employability but also creates a talent pool at the department and the college level.

Interestingly, for some courses, there is a high demand from the students to increase the course period and teach them the advanced topics in that courses. Having understood their eagerness and interest in learning the topics, an honest attempt was made to collect feedback from students so as to improvise on conduction, preparedness, offering the right courses, engaging the right resources persons, etc... in the times to come. This feedback will certainly shape the planning process of conducting open course nest time.

The final report of the open course 2021-22 will be submitted along with the feedback from all stakeholder and the outcome analysis of all open course at the earliest.