Madhav Institute of Technology & Science, Gwalior-474 005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)
Department of Information Technology

Date: 29th May 2024

Minutes of Meeting of Board of Studies (BoS) in Information Technology

The Meeting of **Board of Studies (BoS)** in **Information Technology** was held on 29th May 2024 at 11:30 A.M. onwards **in offline mode / online mode (through video conferencing)**. During the meeting, following were present.

1.	Dr. Sanjiv Sharma, Assistant Professor, Programme Coordinator	Chairman
2.	Dr. Deepak Garg Vice-Chancellor, SR University, Telangana	External Member (Academics)
3.	Dr. Nisha Chaurasia, Assistant Professor, Department of Information Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar (Punjab)	External Member (Alumnus)
4.	Dr. Vivek Tiwari, Department of Computer Science Engineering, International Institute of Information Technology, Naya Raipur (IIIT-NR)	Invitee Member (Academics)
5.	Dr. Akhilesh Tiwari, Professor	Member
6.	Dr. Punit Kumar Johari, Assistant Professor	Member
7.	Mr. Vikas Sejwar, Assistant Professor	Member
8.	Dr. Abhilash Sonker, Assistant Professor	Member
9.	Mr. Rajeev Kumar Singh, Assistant Professor	Member
10.	Ms. Neha Bhardwaj, Assistant Professor	Member
11.	Dr. Saumil Maheshwari, Assistant Professor	Member
12.	Dr. Vikram Rajpoot, Assistant Professor	Member
13.	Dr. Abhishek Dixit, Assistant Professor	Member

The following external and internal members could not attend the meeting.

1.	Dr. Surya Prakash Discipline of Computer Science and Engineering, School of Engineering, Indian Institute of Technology Indore Indore-453552, Madhya Pradesh, India	External Member (Academics) *(Nominee of Hon'ble Vice Chancellor RGPV Bhopal)*
2.	Dr. Dinesh Kumar Vishwakarma, Professor, Department of Information Technology, Delhi Technological University (DTU), Delhi	External Member (Academics)
3.	Mr. Abhinav Mishra, Co-Founder & CEO at Altysys and Former Sr. Director, Persistent System Limited	External Member (Industry)
4.	Dr. Nidhi Saxena, Assistant Professor	Member

The following student members/ representatives were also present in the meeting.

1.	Joel Joy (0901AD221039)	B. Tech IT II Year
2.	Abhishek Kumar Shrivastava (09011T221003)	B. Tech IT II Year
3.	Shivalik Sharma (09011T221067)	B. Tech IT II Year

1 | P a g e
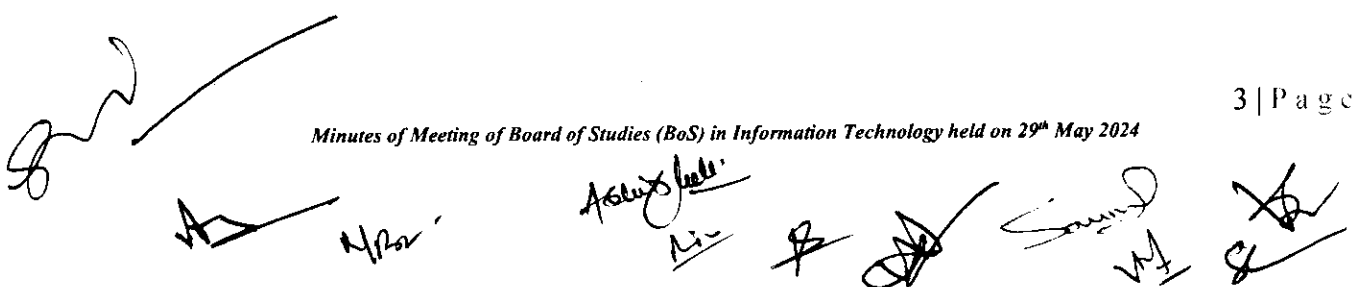
The following deliberation took place in the meeting:

ITEM IT-1:	To confirm the minutes of previous BoS meeting held in the month of December 2023. **The minutes of previous Board of Studies (BoS) meeting held on 1st December 2023 were presented, discussed and confirmed.**
ITEM IT-2:	To review and finalize the scheme structure of B.Tech. VII Semester with the provision of Three (03) Departmental Electives (DEs) and Open Category (OC) Course. (Out of which One (01) Elective and o1 Open category course is to be offered in traditional mode and remaining Two (02) Departmental Electives are to be offered in online mode with credit transfer for the batch admitted in 2021-22. **The scheme structure of B. Tech VII semester [Information Technology] (batch admitted 2021-22), were discussed and recommended. The Scheme is annexed as Annexure-I.**
ITEM IT-3:	To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC based Platforms, to be offered in **online mode for Two (02) Departmental Electives (DE)** Course, with credit transfer in the B.Tech. VII Semester under the flexible curriculum (Batch admitted in 2021-22). **The list of Departmental Elective (DE-3 & DE-4) courses to be offered from SWAYAM/NPTEL/MOOC based learning platform (in online mode) for B. Tech VII Semester [Information Technology] (under flexible curriculum) were discussed and finalized, as per the following detail** <table><tr><th>DE-3 (B. Tech IT):</th><th>DE-4 (B. Tech IT):</th></tr><tr><td>• Software Testing (12 Weeks) • Google Cloud Computing Foundations (8 Weeks) • Social Network Analysis (12 Weeks)</td><td>• Deep Learning (12 Weeks) • Big Data Computing (8 Weeks) • Computer Vision (12 Weeks)</td></tr></table> *In continuation, it is also discussed and recommended that the above mentioned list of Departmental Elective (DE) course may be kept dynamic and newly emerging courses may be inducted in line with the industrial need and emerging developments (as and when desired).*
ITEM IT-4:	To prepare and finalize the syllabus of courses to be offered (for batch admitted in 2021-22) under Departmental Elective (DE) Course (in traditional mode) for B. Tech. VII Semester along with their COs. **The courses to be offered under Departmental Elective (DE-2) category (in offline mode) for B. Tech VII Semester [Information Technology] (under flexible curriculum) were discussed and finalized, as per the following detail. The detailed syllabi (along with their COs) is Annexed as Annexure - II.** <table><tr><th>DE-2 (B. Tech IT):</th></tr><tr><td>• Optimization Methods in Engineering • Pattern Recognition • Mobile Computing</td></tr></table>
ITEM IT-5:	To prepare and finalize the syllabus of courses to be offered (for batch admitted in 2021-22) under the Open Category (OC) Courses (in traditional mode) for B.Tech. VII semester students of other departments along with their COs.

	The courses to be offered under Open Category (OC) Courses for B. Tech VII Semester (for the students of other departments) under flexible curriculum, were discussed and finalized, as per the following detail
	<table><tr><td colspan="1">OC-2:</td></tr><tr><td>• Soft Computing • Software Testing</td></tr></table> *It is further discussed that the Open Category (OC) courses are meant only for the students of other departments; therefore the above list of courses may be kept dynamic (as per the need and demand from other departments).* The detailed syllabi (along with their COs) is annexed as **Annexure-III.**
ITEM IT-6:	To review and finalize the Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B. Tech. VII semester (for batches admitted in 2021-22). **The experiment list / lab manual for the Laboratory Courses for B. Tech VII semester [Information Technology] were discussed and finalized. The same is annexed as Annexure-IV.**

ITEM IT-7:	To propose the list of "Additional Courses" which can be opted for getting an
	    (i) Honours (for students of the host department)
	    (ii) Minor Specialization (for students of other departments)
	These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. *VII semester students (for the batch admitted in 2021-22) and for* B.Tech. *V semester (for the batch admitted in 2022-23)*
	
	The courses available on SWAYAM/NPTEL/MOOC based learning platforms for Honours and Minor Specialization were discussed and identified. The details of courses under Honours Specialization (through SWAYAM/NPTEL portal) has been concluded and summarized. Further, it was decided that the list of honours and Minor specialization will remain dynamic (i.e. can be changed as per the demand/need of stakeholders). The Same is annexed as Annexure-I & V.

ITEM IT-8:	To review and finalize the scheme structure of B.Tech. V Semester under the flexible curriculum (Batch admitted in 2022-23) **The Scheme of B. Tech. V semester [Information Technology] (batch admitted 2022-23), were discussed and recommended. The Scheme is annexed as Annexure-V.**
ITEM IT-9:	To review and finalize the syllabi for all Departmental Core (DC) Courses of B. Tech. V Semester (for batch admitted in 2022-23) under the flexible curriculum along with their COs. **The Syllabi (along with the Course Outcomes) of B. Tech. V [Information Technology] (batch admitted 2022-23), were discussed and finalized. The same is annexed as Annexure- VI.**
ITEM IT-10:	To review and recommend the Experiment list/ Lab manual for all the Laboratory Courses to be offered in B. Tech. *V Semester (for* batch admitted in 2022-23) **The experiment list / lab manual for B. Tech V semester [Information Technology] were discussed and finalized (The list must be treated as dynamic). The same is annexed as Annexure-VII.**

ITEM IT-11:	To review and recommend the list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B.Tech. V Semester (for the batch admitted in 2022-23). **The list of projects for the laboratory courses for B. Tech V semester [Information Technology] were discussed and finalized (The list must be treated as dynamic). The same is annexed as Annexure-VIII.**
ITEM IT-12:	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batch admitted in 2022-23) in online mode under Self-Learning/ Presentation, in the B.Tech. V Semester. **The courses to be offered under Self-Learning/ Presentation through SWAYAM / NPTEL based learning platform for B. Tech. V semester (2022-23 admitted batch) [Information Technology], under flexible curriculum were discussed and finalized, as per the following** **B. Tech. V Semester** • Python for Data Science (4 Week) • Demystifying networking (4 Week) *To promote the self-learning, it is mandatory to register for one online course (as per above list) from the SWAYAM / NPTEL platform under the Seminar / Self Study Course. Further, the evaluation will be based on attendance, assignments and presentations, etc*
ITEM IT-13:	To review and finalize the scheme structure of B.Tech. III Semester under the flexible curriculum (Batch admitted in 2023-24). **The Scheme of B. Tech. III semester [Information Technology] (*batch admitted 2023-24*) were discussed and finalized. The scheme is annexed as Annexure-IX.**
ITEM IT-14:	To review and finalize the syllabi for all Departmental Core (DC) Courses of B. Tech. III Semester (for batch admitted in 2023-24) under the flexible curriculum. **The syllabi for all Departmental Core (DC) *(along with the Course Outcomes)* of B. Tech. III semester [Information Technology] (*batch admitted* 2023-24) were discussed and finalized. The detailed syllabi is annexed as Annexure-X.**
ITEM IT-15:	To review and recommend the list of experiments and skill-based mini projects of B.Tech. III semester (for batch admitted in 2023-24). **The experiment list / lab manual and skill based mini project for the Laboratory Courses for B. Tech III semester [Information Technology] were discussed and finalized (The list must be treated as dynamic). The same is annexed as Annexure-XI.**
ITEM IT-16:	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered in the B.Tech. III Semester (for batches admitted in 2023-24) in online mode under Self-Learning/ Presentation. **The courses to be offered under Self-Learning/ Presentation through SWAYAM / NPTEL based learning platform for B. Tech. III semester (2023-24 admitted batch) [Information Technology], under flexible curriculum were discussed and finalized, as per the following** **B. Tech. III Semester** • Programming, Data Structures And Algorithms Using Python (8 Week) • Getting Started with Competitive Programming (12 Week)

	To promote the self learning, it is mandatory to register for one online course (as per above list) from the SWAYAM / NPTEL platform under the Seminar / Self Study Course. Further, the evaluation will be based on attendance, assignments and presentations, etc.
ITEM IT-17:	To review and recommend the Scheme structure & Syllabi of PG Programme (M.E./ M.Tech./ MCA/ MBA) along with their Course Outcomes (COs). **The Scheme of M. Tech. III semester [Information Technology] (*batch admitted 2023-24*) were discussed and finalized. The scheme is annexed as Annexure-XII.**
ITEM IT-18:	To review the CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for all the courses taught during July-Dec 2023 session. **The attainment levels of Course Outcomes (COs) for all the courses pertaining to July-December 2023 semester were presented and reviewed. The house appreciated the same and observed the achievement of target attainment levels for almost all the courses. The same is enclosed as Annexure-XIII.**
ITEM IT-19:	To review and finalize the CO-PO mapping matrix for all the courses to be taught in July-Dec 2023. **The CO-PO mapping matrix with attainments and gap analysis for July-Dec 2023 were discussed and reviewed. The same is annexed as Annexure-XIV.**
ITEM IT-20:	To review curricula feedback from various stakeholders, its analysis and impact. **The summarized report of curricula feedback from various stakeholders (students, faculty members and alumni etc.) (July-Dec 2023) was presented and discussed. This was based on various considered parameters. Further, the house has reviewed the feedback & its summarized report and efforts made where appreciated. The report is annexed as Annexure-XV.**

Suggestions by External Experts / Members:

- It was suggested to update the list of Micro, Macro and Mini Skill Based Project of the course Data Science Using Python in B. Tech V Semester.
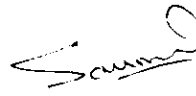- It was suggested to add laboratory in the course cloud computing in B. Tech V Semester.

The meeting ended with the vote of thanks to all the members.

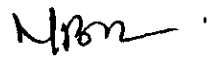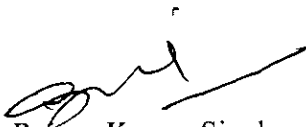Dr. Abhishek Dixit   Dr. Vikram Rajpoot   Dr. Saumil Maheshwari   Ms. Neha Bhardwaj

Mr. Rajeev Kumar Singh   Dr. Abhilash Sonker   Mr. Vikas Sejwar   Dr. Punit Kumar Johari

Online Present

Dr. Nisha Chaurasia
Assistant Professor,
Department of Information
Technology, Dr. B. R. Ambedkar
National Institute of Technology,
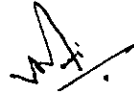Jalandhar (Punjab)

Online Present

Dr. Vivek Tiwari
Associate Professor,
Department of Computer
Science Engineering,
ABV- Indian Institute of
Information Technology and
Management, Gwalior

Online Present

Dr. Deepak Garg
Vice-Chancellor,
SR University, Telangana

Dr. Sanjiv Sharma
Assistant Professor & Coordinator Department of IT,
Chairman, BoS

Dr. Akhilesh Tiwari,
Professor
Department of Information Technology