

Minutes of the Meeting of Board of Studies (BoS) of Information Technology Department, that was held on Sept 3rd, 2022 at 10.00 AM on Microsoft Teams platform.

The following members were present:

1. Dr. Ketan Shah, Head, Department of Information Technology, Associate Dean (Accreditations), MPSTME
2. Dr. Lov Kumar, Assistant Professor, BITS-PILANI, Hyderabad - Academic Expert
3. Dr. Akhilesh Srivastava (Director of Product Management, Research & Development, GROK Learning Pvt Ltd.) - Industry Expert
4. Dr. Ashwini Rao, Assistant Professor, Department of Information Technology, MPSTME

Leave of absence is granted to the following member:

1. Dr. Alka Mahajan, Dean, MPSTME, NMIMS University
2. Dr. Sanjay R Sinvhal (Corporate Legal Counsel, V-HAL Consulting) - Industry Expert

1. The BoS members confirmed the minutes of meetings of BoS in Information Technology Department held online in April 2022.
2. The BoS members considered and deliberated upon the revision in the curricula of B Tech/MBA Tech and B Tech (Integrated) Information Technology program. They approved the following:

A. Minor revision of curricula of B Tech and MBA Tech Information Technology programs by way of -

- i. Revision in course structure for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 onwards (Encl. - Ia)

-It was discussed that change in the course structure was only due to changes in the nomenclature of below listed courses.

- "Machine Learning" to "Machine Learning Algorithms"
- "Project based Internship" to "Project"

- ii. Revision in course structure for the students admitted in AY 2020-21 and direct second year students admitted in AY 2021-22 (Encl. - Ib)

Action taken: The above suggestions are incorporated into the revised curriculum.

B. Revision in Teaching & Examination Scheme and syllabi of the listed courses of Semester IV for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 onwards (Encl. - II)

- Object Oriented Programming (Common with B Tech/MBA IT and B Tech Cyber)

-It was suggested that an unit on "Modelling classes" to be introduced in the syllabus

- Programming for Analytics
 - BoS members appreciated the inclusion of this as a core IT course
 - It was suggested that an unit on analysing data sets and creating reports to be included

The remaining courses are approved in earlier AC meetings/placed for approval by other departments.

Action taken: The above suggestions are incorporated into the revised curriculum.

C. Introduction of Teaching and Examination Scheme and syllabi of Semester VI courses for the B Tech and MBA Tech Information Technology programs. This will be applicable to the students admitted in 2020-21 (Encl. - III)

- Machine Learning Algorithms
 - BoS members suggested to include a unit on "Introduction to Neural Networks" in the syllabus
 - It was suggested to move section of the syllabus dealing with feature selection to earlier units

- Software Project Management
- System Administration
- Department Elective - III & IV
 - a. Software Quality Assurance (Common with B Tech/MBA Tech IT and Computer)
 - b. UI and UX Design
 - c. Cyber Forensics
 - d. Advanced Web Programming
 - e. Advanced Database Management Systems
 - f. E-Commerce
 - g. Blockchain Technology (Common with B Tech/MBA Tech IT and B Tech AI)

The remaining courses are approved in earlier AC meetings/placed for approval by other departments.

Action taken: The above suggestions are incorporated into the revised curriculum.

D. Minor revision of curricula of B. Tech Integrated program by way of -

- i. Revision in course structure for the students admitted in AY 2021-22 onwards (Encl. - IV).

-It was discussed that change in the course structure was only due to changes in the nomenclature of below listed courses.

- "Machine Learning" to "Machine Learning Algorithms"

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- "Project based Internship" to "Project"

Action taken: The above suggestions are incorporated into the revised curriculum.

- E. Introduction of Teaching and Examination Scheme and syllabi of Semester IV course for the B Tech (Integrated) Information Technology program. This will be applicable to the students admitted in 2021-22 onwards (Encl. - V).
- Data Structures
 - Introduction to Linux

The remaining courses are approved in earlier AC meetings/placed for approval by other departments.

Action taken: The above suggestions are incorporated into the revised curriculum.



Chairperson
Dean, Board of Studies



Minutes of the Meeting of Board of Studies (BoS) of Information Technology Department, that was held on 26th Nov, 2022 at 10.40 AM on Microsoft Teams platform.

The following members were present:

1. Dr. Ketan Shah, Head, Department of Information Technology, Associate Dean (Accreditations), MPSTME
2. Dr. Lov Kumar, Assistant Professor, BITS-PILANI, Hyderabad - Academic Expert
3. Dr. Akhilesh Srivastava (Director of Product Management, Research & Development, GROK Learning Pvt Ltd.) - Industry Expert
4. Dr. Sanjay R Sinvhal (Corporate Legal Counsel, V-HAL Consulting) - Industry Expert
5. Dr. Ashwini Rao, Assistant Professor, Department of Information Technology, MPSTME

Leave of absence is granted to the following member:

1. Dr. Alka Mahajan, Dean, MPSTME, NMIMS University
Comments and suggestions received prior and incorporated

1. The BoS members confirmed the minutes of meetings of BoS in Information Technology Department held online in September 2022.
2. The BoS members considered and deliberated upon the revision in the curricula of B Tech/MBA Tech and B Tech (Integrated) Information Technology program. They approved the following:

A. Minor revision of curricula of B Tech and MBA Tech Information Technology programs by way of

- - i. Revision in Teaching & Examination Scheme and introduction of syllabi for the listed courses of Semester V for the students admitted in AY 2021-22 onwards (Encl. - Ia, Ib and II)
 - a. Visual analytics
 - b. Advanced Data Structures (Department Elective)
- It was discussed that Visual Analytics that was an elective in the earlier scheme is now changed to a regular course taking into consideration the demand for Data Analytics profile for the IT students.
- Dr. Ashwini also discussed that change in the syllabus of Advanced Data Structures was primarily because of the change in the introductory data structure course content of the earlier semester.
- Dr. Kumar suggested that lab for this advanced course should be properly planned and executed to improve the coding skill of students.
- ii. Approval of Teaching & Examination Scheme for B Tech and MBA Tech IT of Semester VI for the students admitted in AY 2021-22 onwards for a course "Interpersonal Skills". (Encl. - II)

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- B. Introduction of Teaching and Examination Scheme and syllabi of all the courses of Semester VII for the B Tech and MBA Tech Information Technology programs. This will be applicable to the students admitted in AY 2020-21. (Encl. - IIIa, IIIb and IIIc)
- i. Information Systems Security (B Tech. / MBA Tech)
 - ii. Cloud Computing (B Tech.)
 - iii. Department Electives - V & VI
 - a. Software Testing (B Tech. / MBA Tech)
 - b. Deep Learning (B Tech. / MBA Tech)
 - c. Advanced Machine Learning (B Tech.)
 - d. Distributed Computing (B Tech. / MBA Tech)
 - e. Visual Analytics (B Tech.)
 - f. Database Administration (B Tech.)
 - g. Image and Video Processing (B Tech.)
 - h. Ethical Hacking (B Tech. / MBA Tech)
 - i. Network design (B Tech. / MBA Tech)
 - iv. Open Elective - V
 - v. Capstone Project
- Dr. Kumar suggested that the topic of Mutation Testing that checks for quality of test cases being created to be included in the syllabus along with a section on software metric that is used to indicate the complexity of a program.
- Members raised a concern about section of the syllabus that is an overlap in the course of Machine Learning Algorithms, Advanced Machine Learning and Deep Learning. It was hence decided that the department will once again review the contents of these courses and list down the overlapping content along with percentage matching across the same.
- Dr. Ashwini also discussed about few other courses that are approved in earlier AC meetings/placed for approval by other departments.

Action taken:

- Faculty experts in the domain of AI/ML reviewed the syllabus of all the three courses. More than 35% of the content in the course of Advanced ML was found overlapping with the earlier approved syllabus of Machine Learning Algorithms and Deep Learning. A comparison document was sent across to our BoS members. Dr. Kumar have suggested changes in the units that were overlapping, which is incorporated into the revised syllabus.
- C. Minor revision of curricula of B. Tech Integrated program by way of -
- i. Revision in course structure for the students admitted in AY 2021-22 (Encl. - VIIa)
 - It was discussed that change in the course structure was only due to changes in the nomenclature of the course "Fundamentals of English Communication" to "English Communication" and shuffling of few courses to balance the credits.
 - ii. Revision in course structure for the students admitted in AY 2022-23 (Encl. - Va, Vb and Vc).
 - It was discussed that change in the course structure was only due to changes in the nomenclature of the course "Data Structures" to "Basic Data Structures" and revision in syllabus.

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- iii. Revision in Course Structure and teaching scheme of Semester I and II due to renaming and shifting of few courses (approved by Mechanical BOS) for the students admitted in AY 2023-24 onwards (Encl. - VIa, VIb and VIc).

Action taken: The above suggestions are incorporated into the revised curriculum.

- D. Teaching and Examination Scheme and syllabi of the listed courses of Semester V for the B Tech (Integrated) Information Technology program. This will be applicable to the students admitted in AY 2021-22 onwards (Encl. - VIIb & VIIc).

- i. Calculus (Syllabus is approved by BSH Dept.)
 - ii. Elements of Biology (Syllabus is approved by BSH Dept.)
 - iii. Introduction to Data Communication and Networks
 - iv. Introduction to IT Infrastructure Landscape
 - v. Design Thinking (Syllabus is approved by BSH Dept.)
 - vi. English Communication (Syllabus is approved by BSH Dept.)
 - vii. Python Fundamentals*
 - viii. Introduction to Cloud computing and Blockchain Technology
 - ix. Entrepreneurship (Syllabus is approved by Tech Management Dept.)
- Dr. Akhilesh appreciated the contents in the course of "Introduction to IT Infrastructure Landscape. He felt that such a course would help the students to be aware of fundamental terms and technologies being used in IT industry.
- Dr. Sanjay suggested that an introduction to physical Infrastructure and storage of Data centers can be part of the IT infrastructure landscape syllabus.
- Dr. Ashwini discussed about few other courses that are approved in earlier AC meetings/placed for approval by other departments.

Action taken: The above suggestions are incorporated into the revised curriculum.



Chairperson
Dean, Board of Studies



Minutes of the Meeting of Board of Studies (BoS) of Information Technology Department, that was by circulation.

1. The BoS members confirmed the minutes of meeting of BoS in Information Technology Department that was through circulation.
2. The BoS members considered the revision in the curricula of B Tech/MBA Tech and B Tech (Integrated) Information Technology program. They approved the following:
 - A. Minor revision in the structure of B Tech and MBA Tech Information Technology programs by way of -
 - i. Revision in Teaching & Examination Scheme of Semester VI and VII for the students admitted in AY 2021-22 onwards (Encl. - I)
 - The revision is by the way of reduction in the number of department electives from 6 to 5.

Action taken: The above changes are incorporated into the revised teaching and examination scheme.

- B. Revision in the syllabi of the listed courses of Semester V for the B Tech (Integrated) Information Technology program. This will be applicable to the students admitted in AY 2021-22 onwards (Encl. - II).
 - i. Introduction to Data Communication and Networks
 - Revision was done in unit of "Introduction to Data Communications and Networking" to accommodate the basics of Data Communication such as Types of signals, Transmission modes, Signal propagation etc.
 - The unit on "Connective Devices" was deleted from the syllabus as the content was on the heavier side and is covered in the Computer Network course of Sem IV.
 - The unit on "Network security introduction" was deleted from the syllabus as it is covered in the Information Systems Security course of Sem VII and a unit on "Network Protocols and Reference models" is added in the revised syllabus.
 - ii. Introduction to Cloud computing and Blockchain Technology
 - The unit on "Cloud Eco-System" was deleted from the syllabus as content on Cloud Computing was on the heavier side and is covered in the Cloud Computing course of Sem VII.

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- The unit on "Types of Blockchain Networks" was deleted from the syllabus as it is covered in the Blockchain Technology course of Sem VI and unit on "Applications of Blockchain" is added in the revised syllabus.
- Content is now aligned as per the prescribed text book mentioned in the syllabus

Action taken: The above changes are incorporated into the revised curriculum.



Chairperson
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