

Minutes of the Meeting of Board of Studies (BoS) of Data Science Department, was held on 5th September, 2023 through mail circulation.

The mail for suggestion/confirmation was sent to the following BoS members-

1. Dr. Alka Mahajan, Dean, MPSTME, NMIMS University
2. Dr. Prasad Ramanathan, Senior Director, Capgemini - Industry Expert
3. Soumitra Das, Senior Analytical training consultant, SAS Institute - Academic expert
4. Ekta Shah, Senior Machine Learning Engineer, Quantiphi -Alumni
5. Prof. Sarada Samantaray, HOD (PG) and Associate Dean, Data Science Department
6. Dr. Siba Panda, HOD (UG), Assistant Professor, Data Science Department
7. Prof. Jaykrishna Joshi, Assistant Professor, Data Science Department

1. The BoS members confirmed the minutes of meeting of BoS in Data Science Department that was through circulation in the month of December 3, 2022.

2. The BoS members considered the revision in the curricula of B Tech/MBA Tech Data Science program. They approved the following:

- Introduction of Teaching and Examination Scheme for the MBA Tech Data Science, semester VI for the students admitted in AY 2021-22 onwards. The syllabi of all courses are approved except "Interpersonal Skills" in the B Tech Data Science. (Encl. - I)

- i. Computer Vision and Applications
- ii. Applications of Machine Learning
- iii. Advance Data Structure for Analytics
- iv. Big Data Analytics
- v. Interpersonal Skills (Approved course of Basic Science and Humanities)
- vi. Department Elective - III
 - a. Quantitative Finance
 - b. Marketing Strategy and Analytics
 - c. Non-parametric Statistical Inference
 - d. Supply chain and Analytics
- vii. Open Elective III
- viii. Open Elective IV

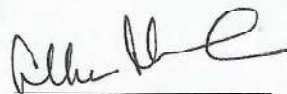
3. To consider and deliberate upon the revision in the curricula of B Tech (Integrated) Data Science, semester VI program by way of-

- Introduction of Teaching and examination scheme for BTI Data Science, which is approved in the BOS of Computer Engineering Department and Syllabi of all the courses are approved in B Tech (Integrated) Computer Engineering, Information Technology and Basic Science and Humanities department. This will be applicable to the students admitted in AY 2021-22 onwards. (Encl. - II)

Information Item:

Minor revision in Course Structure due to shifting of Courses of B Tech Data Science for the students admitted in AY 2023-24 (Encl. - III)

- Swapping the courses on 'Management Accounting for Engineers' and 'Database Management Systems' in Semester III and IV.



Dean, MPSTME
Chairperson, Board of Studies



Minutes of the Meeting of Board of Studies (BoS) of Data Science Department, was through email circulation on 14th February, 2024.

The mail for suggestion/confirmation was sent to the following BoS members:

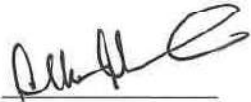
1. Dr. Alka Mahajan, Dean, MPSTME, NMIMS University
 2. Dr. Ajaya Kumar Panda, Associate Professor, NITIE, Mumbai - Academic expert
 3. Dr. Prasad Ramanathan, Senior Director, Capgemini - Industry Expert
 4. Ms. Ekta Shah, Senior Machine Learning Engineer, Quantiphi -Alumni
 5. Prof. Sarada Samantaray, HoD (PG) and Associate Dean, Data Science Department
 6. Dr. Siba Panda, HoD (UG), Assistant Professor, Data Science Department
 7. Prof. Jaykrishna Joshi, Assistant Professor, Data Science Department
1. The BoS members considered and deliberated upon the revision in the curricula of MBA Tech Data Science and B Tech Integrated Data Science. They approved the following:

Reporting Items -

- A. The following existing courses approved in earlier academic councils by respective departments, which will be offered to MBA Tech Data Science Semester VII along with Course Structure and Teaching & Examination Scheme for the students admitted in AY 2021-22 onwards. **(Encl.-I)**
 - i. Neural Networks and Deep Learning
 - ii. Speech and Natural Language Processing
 - iii. MLOps
 - iv. Open Elective - V
 - v. Technical Internship (Approved by the BoS of Computer Department)
- B. The following existing courses approved in earlier academic councils by respective departments, which will be offered to MBA Tech Data Science Semester VIII along with Course Structure and Teaching & Examination Scheme for the students admitted in AY 2021-22 onwards. **(Encl.-II)**
 - i. **Department Elective - IV & V**
 - a. Advanced Database Management Systems
 - b. Advanced Computer Vision
 - c. DevOps
 - d. Metaverse
 - e. Reinforcement Learning
 - f. Quantum Machine Learning
 - ii. Capstone Project
- C. The following existing courses approved in earlier academic councils by respective departments, which will be offered to B Tech Integrated Data Science Semester VII along with Course Structure and Teaching & Examination Scheme for the students admitted in AY 2021-22 onwards. **(Encl.-III)**
 - i. Optimization Methods
 - ii. Principles of Economics and Management
 - iii. Managing Uncertainty
 - iv. Data Wrangling
 - v. Information Security and Privacy
 - vi. Data Structures and Algorithms
 - vii. Technical Communication
 - viii. Community Service

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- D. The following existing courses approved in earlier academic councils by respective departments, which will be offered to B Tech Integrated Data Science Semester VIII along with Course Structure and Teaching & Examination Scheme for the students admitted in AY 2021-22 onwards. (Encl.-IV)
- i. Stochastic processes and Applications
 - ii. Statistical Structures in Data and Inference
 - iii. Database Management Systems
 - iv. Data Handling and Visualization
 - v. Introduction to Data, Signal and Image Analysis
 - vi. Mobile Application Development



Dean, MPSTME
Chairperson, Board of Studies



Minutes of Meeting

The BoS meeting NMIMS MPSTME - LTIMINDTREE was held on **8th June 2024**, in 6th floor Department Seminar Hall, at 09:30 am, MPSTME new building.

The following members were present in the meeting-

1	Dr. N C Shivaprakash, Indian Institute of Science, Bangalore
2	Dr. Ajaya Kumar Panda, Associate Professor (Financial Analytics), IIM Mumbai
3	Dr. Rakesh Verma, Professor (Analytics and Data Science), IIM Mumbai
4	Dr. Rathinavelu Arumugam, Principal-Consulting, Lead - Education Programs and Academia Engagement, LTIMindtree
5	Dr. Siba Panda (Head of Department, Data Science)
6	Prof. Jaykrishna Joshi, Assistant Professor, Data Science Department
7	Prof. Swati Vaishnav, Assistant Professor, Data Science Department
8	Prof. Kshamta Mathur, Assistant Professor, Data Science Department

NMIMS and L&T EduTech have officially signed a Memorandum of Understanding (MoU) to develop, and offer advanced, industry-integrated M.Tech programs. This collaboration will enhance our existing AICTE-approved M.Tech programs in Data Science and Artificial Intelligence with advanced cutting-edge industry technology by introducing courses like Generative Adversarial Networks, ML Engineering for production, Applications of Gen AI and Responsible AI, Security essential in Applied AI, Edge computing, etc. The second year will be dedicated to industry-oriented training and hands-on project experience at L&T Group and LTE partner companies. This ground-breaking alliance represents a crucial advancement in higher education, aiming to bridge the gap between industry and academia with LTI Mindtree as a Knowledge partner.

Sr. No.	Points Discussed
	In BoS meeting, Course Structure, Syllabi of M Tech Data Science (Business Analytics) and M Tech Artificial Intelligence were discussed and members suggested some modifications as stated below:
1	BoS members suggested that as the program is collaborated with LTIMindtree with vision of Industry oriented program, the program educational objectives (PEO's) should be clear, comprehensible and different from other existing PG programs.
2	BoS members suggested that each course should have pre-requisite.
3	<p>Change in nomenclature of a few Courses (Encl. - I & II)</p> <ul style="list-style-type: none"> • BoS members suggested the change in nomenclature of few subjects in order to make it more course specific. • The courses for which nomenclature change is suggested by members is listed below: <ol style="list-style-type: none"> 1. Applied Statistics- M Tech AI, Semester I 2. Programming for Data Science - M Tech AI, Semester I 3. Spark-Distributed Data Processing - M Tech AI, Semester II 4. Professional Soft Skills - I - M Tech AI & DS, Semester I 5. Professional Soft Skills - II - M Tech AI & DS, Semester II 6. Project / Thesis - I - M Tech AI & DS, Semester III 7. Python for Data Science - M Tech DS, Semester I

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4	<p>Credits Distribution</p> <ul style="list-style-type: none">• In the course structure provided by LTIMindtree, the course and respective lab was mentioned separately. So BoS members suggested integrating respective course and its lab. If kept separately then the lab should have proper course objectives and outcomes.• For majority of the courses, members suggested to have evenly distribution of credits in each semester with a max credit of 3 for any course.• In semester IV of M Tech AI project credits listed is 12 and in M Tech DS credit listed is 16. Members suggested to make it nearly equal.
5	<p>E-resources</p> <ul style="list-style-type: none">• BoS members suggested to add E-resource link of each course along with text and reference books that are mentioned in syllabus.
6	<p>Introduction of Teaching & Examination Scheme and Syllabi of M Tech Data Science (Business Analytics) and M Tech AI programs, Semester I offered by the Data Science Department for the students admitted in academic year 2024-25 onwards (Encl. - III A,B & IV)</p>

The meeting ended with a vote of thanks.

Action taken: All the above suggestions will be incorporated in the Course Structure, Teaching Scheme and Syllabi.



Dean, MPSTME
Chairperson, Board of Studies

