

SVKM's NMIMS
Mukesh Patel School of Technology Management & Engineering

Minutes of Meeting of BOS - Data Science

On 16th September, Department of Data Science proposed changes in teaching scheme and syllabus of M. Tech. (Data science) and B. Tech. (Data Science). Since proposed changes are minor, agenda was circulated to members by email.


Agenda items were sent to the following members:

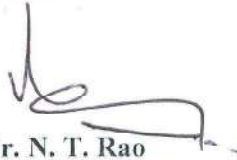
1. Bhargave Shreyas, SPM, Cap Gemini
2. Venkatakrishnan Iyer, VP Cap Gemini
3. Satish Mittal, VP Facebook
4. Dhananjaya Kumat, CEO, Shezartec
5. Pankaj Mittal, SVP AXIS Bank
6. Nimish Somaiya, AVP, Reliance InfoTech

Following agenda items were sent to BOS members.

- A. In B. Tech Data Science Semester V, the course of "Research Methodology" evaluation method is changed from Term End Examination (TEE) to Internal Continuous Assessment (ICA) as per the approved teaching scheme and syllabus of other departments.
- B. There are two typing mistakes in the teaching scheme and syllabus details are as follows:
 - 1) In teaching scheme of B. Tech Data Science Semester IV, Practical hours for the course of "Operating Systems" should be 2 hours instead of 0.
 - 2) In syllabus of "Operations Research", M. Tech Data Science, Semester II, the word 'Lab' is mentioned in duration of the lecture. Instead it should be number of hour.

Board of Studies members have confirmed the above items by email.


Prof. Sarada Samantaray
Head of Department, Data Science


Dr. N. T. Rao
Dean, MPSTME



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Minutes of Meeting Board of Studies for Data Science and Artificial Intelligence

The BOS meeting of Data Science department was held on 11th January 2020 at 09.00 a.m. at Mukesh Patel School of Technology Management and Engineering, Mumbai. This year (2020), we are launching B. Tech Artificial Intelligence, a new branch of Engineering.

Attended by:

1. Dr Archana Bhise, Associate Dean, Research, MPSTME
2. Dr. Shailaja Rego, Associate Professor, Chairperson, MBA-DNA(NMIMS), MS-BAIM (Purdue)
3. Prof. Sarada Samantaray, Associate Dean, HOD, MPSTME
4. Mr. Shreyas Bhargave, SPM, Cap Gemini
5. Dr. Prasad Ramanathan, SPM, Cap Gemini
6. Dr. Ajaya Kumar Panda, Assistant Professor, NITIE
7. Dr. Soumitra Das, Senior Consultant, SAS
8. Dr. Siba Panda, Assistant Professor, Data Science
9. Prof. Jaykrishna Joshi, Assistant Professor, Data Science
10. Prof. Avani Joshi, Assistant Professor, Data Science
11. Prof. Pranav Nerurkar, Assistant Professor, Data Science
12. Prof. Neepa Patel, Assistant Professor, Mechanical Engg.

Leave of absence:

1. Mr. Satish Mittal, Facebook
2. Mr. Dwiraj Bose, Bajaj Allianz
3. Mr. Pankaj Mittal, Axis Bank
4. Mr. Dhananjay Kumar, CEO Shezartech Consulting

Agenda of the meeting: -

1. Introduce a new program of B Tech (Artificial Intelligence) with proposed syllabus and teaching scheme for Semesters I and II.
2. Teaching scheme and syllabus for B. Tech (Data Science) course, 4th year- Semesters VII and VIII.



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3. Minor revision in teaching scheme and syllabus of B. Tech Data Science (second and third year), M. Tech data science (first year) and M. Tech Artificial Intelligence (first year).

The BOS members suggested the following amendments:

B. Tech Data Science:

- A. In B. Tech Data Science, fourth year was introduced for 2020. Board members reviewed all teaching schemes and syllabus for the same. After reviewing it, they gave a confirmation for SEM VII only and suggested SEM VIII should be introduced in next BOS meeting as major changes are required. Agenda no. 2 was presented as below:

- For SEM- VII below subjects are newly introduced:
 Internship

- B. Minor changes in Teaching scheme and syllabus (Existing) of B. Tech Data Science, the details Agenda no. 3 was presented below:

- In syllabus of B. Tech Data Science III subject "Data Gathering and Cleaning - ETL process",
 - i. Rechristening unit names - Adding Titles according to the contents
 - ii. Removal of Clover-ETL
- In syllabus of B. Tech Data Science IV Subject "Internet of Things",
 - i. Changed objective, outcomes and text books.
 - ii. In unit 1 to added content on Social mobility and cloud
 - iii. In unit 6 to added content on Revue latest research papers on IOT
- In syllabus of B. Tech Data Science V Subject "Machine Learning",
 - i. In unit 2 to added content on Normal equation
 - ii. In unit 3 to added content on Cost function. Back propagation. Activation function.
 - iii. In unit 4 to added new content of Machine Learning System Design
 - iv. In unit 7 to added content on Principal Components Analysis, Anomaly detection and large scale machine learning.
- In syllabus of B. Tech Data Science VI Subject "Deep Learning",
 Changed objectives, outcomes, text books and reference book.



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- In syllabus of B. Tech Data Science VI Subject "Financial Institution and Market",
 - i. Removal of lease evaluation and Mortgage instruments.
 - ii. In unit 10 to added new content on Mutual Funds.

M. Tech Data Science

A. Minor changes in Teaching scheme and syllabus (Existing) of M. Tech Data Science, the details Agenda no. 3 was presented below:

- In M. Tech Data Science SEM I, the teaching scheme and syllabus of subject "Programming for Analytics" is modified as follow:
 - i. Theory hours per week changed from 3 to 4 and hence credit also changed accordingly.
 - ii. Duration of hours increased from 45 hours to 60 hours
- In M. Tech Data Science SEM II, the teaching scheme and syllabus of subject "Operations Research" is modified as follow:
 - i. Theory hours per week changed from 2 to 3 and hence credit also changed accordingly.
 - ii. Duration of unit hours increased from 30 hours to 45 hours
- In M Tech (Data Science) SEM - II, audit subjects removed from elective list in teaching scheme.
- In M. Tech Data Science SEM II, the syllabus of subject "Finance Analytics",
 - i. In unit 1 to added content on Corporate finance
 - ii. In unit 3 to added new content on Working capital
 - iii. In unit 7 to added content on Capital budgeting under risk and uncertainty
- In M. Tech Data Science SEM III the teaching scheme and syllabus of subject "Capstone Project",

The below subjects are converted from 4 practical hours to 4 theory hours and hence credit also changed accordingly.:

 - i. Advanced Financial Analytics
 - ii. Advanced Marketing Analytics
 - iii. Advanced Operations and Supply Chain Analytics

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M. Tech Artificial Intelligence

A. Minor changes in Teaching scheme and syllabus (Existing) of M. Tech Artificial Intelligence, the details Agenda no. 3 was presented below:

- In M. Tech Artificial Intelligence SEM I, the teaching scheme and syllabus of subject "Application of Artificial Intelligence – I" replace with "Research Project - I"
- In M. Tech Artificial Intelligence SEM II, the teaching scheme and syllabus of subject "Application of Artificial Intelligence – II" replace with "Research Project - II"



Prof. Sarada Samantaray
HOD, Data Science

