Minutes of the Meeting of Board of Studies (BoS) of Artificial Intelligence, was held on 10th September, 2022 at 9.30 AM on Microsoft Teams platform.

The following members were present:
1. Dr. Manjunath Joshi, Professor, DA-IICT. Ahmedabad.
2. Dr. Vaishali Kulkarni, Professor, Chairperson (Artificial Intelligence), MPSTME, Mumbai.
3. Dr. Nitin Choubey, Professor, Computer Engineering, MPSTME, Shirpur.
4. Ms. Radhika Chapaneri, Assistant Professor, MPSTME, Mumbai.
5. Dr. Shubham Joshi, Assistant Professor, MPSTME, Shirpur.
6. Mr. Yogesh Jadhav, Assistant Professor, STME, Kharghar.

Leave of absence was granted to the following members:
1. Dr. Alka Mahajan, Dean, MPSTME, NMIMS University
2. Dr. Jitendra Mudhol, Founder and CEO, CollaMeta Sunnyvale, California
3. Mr. Sujay Madbhavi, Data Scientist, General Mills, Mumbai

1. The members of BoS confirmed the minutes of a meeting of the Board of Studies in Artificial Intelligence held on 30th April 2022.

2. The BoS members considered and deliberated upon the revision in the curricula of B Tech. and MBA Tech. programs. They approved the following:

   A. A minor revision of curricula of B Tech and MBA Tech by way of –

      I. Revision in course structure of B Tech Artificial Intelligence and MBA Tech Artificial Intelligence for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 **(Encl. - Ia)**
         - Compulsory course, 'Robotic Process Automation' of semester VI is shifted as an elective course in semester VI.
         - Shifting of a course 'Software Engineering' from semester VII to VI
         - Introduction of course 'Advanced Topics in Machine Learning' in semester VII

      II. Revision in course structure of B Tech Artificial Intelligence for the students admitted in AY 2020-21 and direct second year students admitted in AY 2021-22 **(Encl. - Ib)**
         - Compulsory course, 'Robotic Process Automation' of semester VI is shifted as an elective course in semester VI.
         - Shifting of a course 'Software Engineering' from semester VII to VI
         - Introduction of course 'Advanced Topics in Machine Learning' in semester VII

      III. Revision in course structure of B Tech in Artificial Intelligence and Machine Learning for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 **(Encl. - Ic)**

      IV. Revision in course structure of B Tech in Artificial Intelligence and Data Science for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 **(Encl. – Id)**

B. Minor revision in the teaching and examination scheme of semester IV of B Tech Artificial Intelligence for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 (Encl.-II)

I. Minor revision in the syllabi of the course 'Signal and Image Processing'

The course outcomes are revised as per the contents of the course. The detailed contents to be covered under the topic, 'Image enhancement' and 'Morphological Image Processing' have been mentioned in the revised syllabus.

BoS Committee suggestions: -
1. The BoS members suggested to add Discrete Time Fourier Series (DTFS) and Discrete Time Fourier Transform (DTFS) in the beginning of second unit for continuity of the topics.

Action Taken: -
The above suggestions are incorporated in the revised curriculum.

II. Introduction of the course 'Environmental Science'. Syllabus is approved in earlier AC meeting

C. Introduction of Teaching and Examination Scheme of semester IV of the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 for the following programs. All Syllabi of all the courses are approved and adopted from B Tech Artificial Intelligence.
   I. MBA Tech Artificial Intelligence **(Encl.-III)**
   II. B Tech Artificial Intelligence and Machine Learning **(Encl.-IV)**
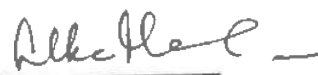   III. B Tech Artificial Intelligence and Data Science **(Encl.-V)**

D. Introduction of Teaching and Examination Scheme and Syllabi of semester VI of B Tech Artificial Intelligence for the students admitted in AY 2020-21 and direct second year students admitted in AY 2021-22 **(Encl.-VI)**
   i. Artificial Intelligence
   ii. Robotics
   iii. Department Elective – III & IV
       a. Robotic Process Automation
       b. Cryptography and Network Security

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

BoS Committee suggestions in the following courses:
1. Artificial Intelligence- The BOs members confirmed whether continuity of this course with the earlier course on 'Introduction to AI' has been maintained. The program chair confirmed that due care has been taken to maintain continuity.
2. Robotics, Robotic Process Automation and Cryptography and Network Security – The syllabi of these course was presented and the BoS members approved the same.

Chairperson
Dean, Board of Studies

195

Minutes of the Meeting of Board of Studies (BoS) of Artificial Intelligence, was held on 12ᵗʰ December, 2022 at 9.30 AM on Microsoft Teams platform.

The following members were present:
1. Dr. Alka Mahajan, Dean, MPSTME, NMIMS University.
2. Dr. Manjunath Joshi, Professor, DA-IICT Ahmedabad, Academic expert.
3. Mr. Sujay Madbhavi, Data Scientist, General Mills, Mumbai, Industry expert.
4. Dr. Vaishali Kulkarni, Professor, Chairperson (Artificial Intelligence), MPSTME, Mumbai.
5. Dr. Nitin Choubey, Professor, Computer Engineering, MPSTME, Shirpur.
6. Ms. Radhika Chapaneri, Assistant Professor, MPSTME, Mumbai.
7. Dr. Shubham Joshi, Assistant Professor, MPSTME, Shirpur.
8. Mr. Yogesh Jadhav, Assistant Professor, STME, Kharghar.

Leave of absence was granted to the following members:
1. Mr. Jitendra Mudhol, Founder and CEO, CollaMeta Sunnyvale, California

1. The members of BoS confirmed the minutes of a meeting of the Board of Studies in Artificial Intelligence held on 10ᵗʰ September 2022.

2. To consider and deliberate upon the revision in the curricula of B Tech/MBA Tech Artificial Intelligence programs by way of–

   A. Minor revision in Course Structure and Teaching and Examination schemes of **semester III and IV for B Tech Artificial Intelligence and MBA Tech Artificial Intelligence** for the batch admitted in the academic year 2022-23 onwards. **(Encl.-Ia, Ib, IIa and IIb)**
      i. The courses "Database Management Systems" shifted from semester III to semester IV and revision in syllabus.
      ii. The courses "Signal and Image Processing" shifted from semester III to semester IV.
      iii. The courses "Intelligent Systems - I" shifted from semester IV to semester III.
      iv. The courses "Operating Systems" shifted from semester IV to semester III.

   B. Minor revision in Teaching & Examination Scheme for the following courses for **B Tech Artificial Intelligence, Semester V** for the students admitted in AY 2021-22 onwards. **(Encl.-III)**
      i. Minor revision in the syllabus of the course, "Computer Networks".
      ii. Introduction of course "Design and Analysis of Algorithms" in the Department Elective basket I and II. The common course and Syllabus as approved in BOS of Computer Engineering
      iii. The course 'Cyber Security' is revised and replaced by "Cryptography and Network Security" and is shifted from semester VI to V in the Department Elective basket I and II
      iv. The course "Database Management Systems" removed from the Department Elective basket I and II.

   C. Introduction of Teaching and Examination Scheme for the **MBA Tech Artificial Intelligence, semester V** for the students admitted in AY 2021-26 onwards. The syllabi and teaching scheme of all courses are approved in the B Tech Artificial Intelligence program. **(Encl.-IV)**
      i. Computer Networks
      ii. Deep Learning
      iii. Natural Language Processing
      iv. Department Elective I and II
         a. Compiler Design
         b. Mobile Application Development
         c. Distributed Computing
         d. Cryptography and Network Security
         e. Web Programming
         f. Design and Analysis of Algorithms

177

D. Introduction of Teaching & Examination Scheme and Syllabi of the following courses for **B Tech Artificial Intelligence for Semester VII** for the students admitted in AY 2020-21 onwards. **(Encl.-V)**

    i. Computer Vision

    ii. Advanced Topics in Machine learning

    iii. Human Computer Interaction (Approved course of CE program)

    iv. Department Elective - V & VI (Any Two)

        a. Recommendation Systems

        b. Evolutionary Computing

        c. Applied Time Series Analysis (Approved of DS program)

        d. DevOps (Approved in BoS of Data Science)

        e. Reinforcement Learning (Approved in BoS of Data Science)

        f. Cloud Computing (Approved in BoS of Computer Engg.)

        g. Big Data Analytics (Approved in BoS of Data Science)

    v. Capstone Project (Common scheme and syllabus at institute level for all B Tech programs)

BoS Committee Suggestions –

Dr. Manjunath Joshi suggested the following:

    i. To reduce the content on feature extraction for the course "Computer Vision" of semester VII.

    ii. Add Motivation and applications of evolutionary computing for the course "Evolutionary Computing" of semester VII.

Action taken: Changes have been incorporated in the curriculum.

E. Introduction of Teaching & Examination Scheme and Syllabi of the course, "Project" for common scheme and syllabus at institute level for all B Tech programs for **Semester VIII** for the students admitted in AY 2020-21 onwards. **(Encl.-VI)**

3. To consider and deliberate upon the revision in the curricula of B Tech Artificial Intelligence and Data Science programs by way of–

A. Minor revision in Course Structure and Teaching and Examination schemes of **semester III and IV for B Tech Artificial Intelligence and Data Science** for the batch admitted in the academic year 2022-23 onwards. **(Encl.-VII and VIII)**

    i. The courses "Database Management Systems" and "Signal and Image Processing" shifted from semester III to semester IV

    ii. The courses "Operating Systems" and "Statistical Methods" shifted from semester IV to semester III.

    iii. The courses "Intelligent Systems - I" replaced by "Artificial Intelligence" and shifted from semester IV to semester III

B. Minor revision in Course Structure and Introduction of Teaching and Examination Scheme for the **B Tech Artificial Intelligence and Data Science, semester V**, for the students admitted in AY 2021-25. The common course and Syllabus as approved in BOS of Artificial Intelligence, Data Science and Computer Engineering. **(Encl.-IX)**

    i. Computer Networks (Approved in AI)

    ii. Data Handling and Visualization (Approved in DS)

    iii. Mobile Application development (Approved in CE)

    iv. Department Elective – I and II (Any Two)

        a. Web Programming (Approved in AI)

        b. Cryptography and Network Security (Approved in AI)

        c. Compiler Design (Approved in AI)

        d. Predictive Analysis (Approved in DS)

        e. Biometrics (Approved in CS)

        f. Operation Research (Approved in CS)

178

4. To consider and deliberate upon the revision in the curricula of B Tech Artificial Intelligence and Machine Learning programs by way of–

   A. Minor revision in Course Structure and Teaching and Examination schemes of **semester III and IV for B Tech Artificial Intelligence and Machine Learning** for the batch admitted in the academic year 2022-23 onwards. **(Encl.-X and XI)**

      i. The courses "Database Management Systems" and "Signal and Image Processing" shifted from semester III to semester IV

      ii. The courses "Operating Systems" and "Intelligent Systems - I" shifted from semester IV to semester III.

   B. Introduction of Teaching & Examination Scheme and Syllabi for the **B Tech Artificial Intelligence and Machine Learning, semester V** for the students admitted in AY 2021-25 onwards. **(Encl.-XII)**

      i. Computer Networks (Approved in AI)

      ii. Deep Learning (Approved in AI)

      iii. Natural Language Processing (Approved in AI)

      iv. Department Elective – I (Any One)

         a. Robotics: Computational Motion Planning

         b. Web Programming (Approved in AI)

         c. Cyber Security (Approved in CE)

         d. Biometrics (Approved)

      v. Department Elective II (Any One)

         a. IoT for Smart Cities

         b. Blockchain Technology (Approved in IT)

         c. Machine Learning with Big Data

         d. Robotic Process Automation (Approved in AI)

Dean, MPSTME
Chairperson, Board of Studies

179