

Agenda Item No. 5

Mukesh Patel School of Technology Management & Engineering

- A. To consider the recommendation of Board of Studies of Department of **Basic Sciences and Humanities**
- a. Revision in the curricula B Tech and MBA Tech by introducing Teaching & Examination Scheme and Syllabus of Semester I and II for the batch admitted in 2021-22 onwards
 - 'Chemistry' for B. Tech and MBA Tech Mechanical, B. Tech Civil, Semester II.
 - Replace subjects, 'Linear Algebra and Ordinary Differential Equations', 'Differential Equations and Linear Algebra', 'Differential Equations and Matrices' by 'Linear Algebra and Differential Equations' for B. Tech and MBA Tech all program except B. Tech Computer Science and Business Systems, B. Tech Computer Science and Engineering (Data Science), Semester - II.
 - Data Structures and Algorithms for B. Tech and MBA Tech all programs except Civil, Mechanical, Computer Science and Business Systems and Computer Science and Engineering (Data Science), Semester - II.
 - b. Introduction of the subject 'Chemistry' in Semester - IV in B. Tech Mechatronics Engineering Program for the students admitted in 2021-22 onwards.
 - c. Replace subject, 'Introduction to Earth Sciences' by 'Geology' for B. Tech Civil Engineering of Semester-III for the batch 2021-22 onwards.
 - d. Minor revision in the syllabus of 'Probability and Statistics' for B. Tech and MBA Tech IT, Mechanical, B. Tech Mechatronics, B. Tech Cyber Security Program of Semester-IV for the students admitted in 2020-21.
 - e. Introduction of the following new courses in Semester - IV for the students admitted in 2020-21
 - 'Integral Transforms' for B. Tech Civil, B. Tech and MBA Tech Computer Engineering, B. Tech Artificial Intelligence Program
 - 'Transforms and Series' for B. Tech and MBA Tech EXTC Program
 - 'Classical Physics' for B. Tech Mechanical Engineering Program, Semester-IV.
- B. To consider the recommendation of Board of Studies of Department of **Information Technology**
- a. Revision in the course structure of B Tech Information Technology program and MBA Tech Information Technology for the students admitted in academic year 2020-21 onwards, and direct second year students admitted in the academic year 2021-22
 - Revision of Teaching and Examination Scheme of Semester IV
 - Replace Open elective I by "Data Warehousing and Mining" in semester IV.
 - Replace course "Image and Video Processing" by "Signals and Systems" in semester IV.
 - b. Revision in the curricula B Tech and MBA Tech by introducing Teaching & Examination Scheme of Semester III for the students admitted in 2021-22 onwards and direct second year students admitted in the academic year 2022-23.
 - c. Revision in the curricula B. Tech. (Integrated) - Information Technology by introducing course structure for the students admitted in the AY 2021-22.



54th Academic Council Meeting

SVKM's NMIMS Deemed-to-be University
Mukesh Patel School of Technology Management and Engineering

Minutes of the Meeting of Board of Studies (BoS) of Information Technology Department, that was held on April 16th, 2022 at 10.30 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 (Senior Consultant, Corporate Research and Innovation, TCS) - 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

1. The BoS members confirmed the minutes of meetings of BoS in Information Technology Department held online in August 2021.
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.
 - i. Revision in course structure for the students admitted in AY 2022-23 and direct second year students to be admitted in AY 2023-24 onwards (**Encl. - I**)
 - Shifting of a course Environmental Science from Semester III to II of B Tech and I of MBA Tech IT
 - Increasing the practical hours from 2 to 4 and the credits from 3 to 4 for the course "Programming for Problem Solving" in Semester I of B Tech and MBA Tech IT (Approved in BoS of Computer Dept.)
 - Increasing the theory hours from 2 to 3 and the credits from 3 to 4 for the course "Data Structure and Algorithms" in Semester II for B Tech and MBA Tech IT (Approved in BoS of Computer Dept.)
 - Introducing the course "Digital Manufacturing Laboratory" (Approved in BoS of Mechanical Dept.) and "Electrical and Electronics Workshop" (Approved in BoS of EXTC Dept.) in place of "Workshop Practice" in Semester II for B Tech IT and Semester I for MBA Tech IT
 - Splitting the course "English Communication" of 3 credits in Semester II of B Tech IT and Semester I of MBA Tech IT into three courses for 1 credit each
 - "English Communication" in Semester II for B Tech IT and in Semester I for MBA Tech IT (Approved in BoS of BSH Dept.)
 - "Technical Communication" in Semester III for B Tech and MBA Tech IT (Approved in BoS of BSH Dept.)
 - "Employability Skills" in Semester VI for B Tech and MBA Tech IT (Approved in BoS of BSH Dept.)
 - Shifting of a course "Signals and Systems" from Semester IV to III of B Tech and MBA Tech IT
 - Shifting of a course "Web Programming" from Semester IV to III of B Tech and MBA Tech IT
 - Shifting of a course "Object Oriented Programming" from Semester III to IV of B Tech and MBA Tech IT

54th Academic Council Meeting

SVKM's NMIMS Deemed-to-be University
Mukesh Patel School of Technology Management and Engineering

- Renaming the course "Computer Architecture" to "Computer Organization and Architecture" in Semester III of B Tech and MBA Tech IT
 - Introducing of course of "Python Programming", in Semester III of B Tech and MBA Tech IT (Syllabus approved in BOS of AI)
 - Shifting of a course "Management Accounting for Engineers" from Semester VI to IV of B Tech and MBA Tech IT
 - Introducing the course of "Programming for Analytics", in Semester IV of B Tech and MBA Tech IT
 - Introducing the course of "Visual Analytics", in Semester V of B Tech and MBA Tech IT
 - Shifting of "Department Elective II" course from Semester V to VI of B Tech and MBA Tech IT
 - Shifting of "Department Elective IV" course from Semester VI to VII of B Tech and MBA Tech IT
 - Removal of "Department Elective VI" course from Semester VII of B Tech and MBA Tech IT
 - Renaming the course "Minor Project" to "Capstone Project" in Semester VII with increase in credits from 2 to 4 for B Tech IT
 - Renaming the course "Major Project" to "Project based Internship" in Semester VIII with reduction in credits from 12 to 10 in Semester VIII for B Tech IT
 - Removing "Minor Project" from Semester VII for MBA Tech IT
 - Increase in credits for course "Technical Internship" from 0 to 4 in Semester VII for MBA Tech IT
 - Removing the course "Technical Internship" from Semester VII for B Tech IT
 - Reducing the credit from 8 to 5 of course "Major Project" from Semester VIII for MBA Tech IT
- ii. Revision in Teaching and Examination Scheme for Semester I & II for the students admitted in AY 2022-23 onwards (**Encl.-Ia**)

II.

- 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.-II**)
- Shifting of a course "Signals and Systems" from Semester IV to III of B Tech and MBA Tech IT
 - Shifting of a course "Web Programming" from Semester IV to III of B Tech and MBA Tech IT
 - Shifting of a course "Object Oriented Programming" from Semester III to IV of B Tech and MBA Tech IT
 - Renaming the course "Computer Architecture" to "Computer Organization and Architecture" in Semester III of B Tech and MBA Tech IT
 - Introducing of course of "Python Programming", in Semester III of B Tech and MBA Tech IT (Syllabus approved in BOS of AI)
 - Shifting of a course "Management Accounting for Engineers" from Semester VI to IV of B Tech and MBA Tech IT
 - Introducing the course of "Employability Skills", in Semester VI of B Tech and MBA Tech IT
 - Introducing the course of "Programming for Analytics", in Semester IV of B Tech and MBA Tech IT
 - Introducing the course of "Visual Analytics", in Semester V of B Tech and MBA Tech IT
 - Shifting of "Department Elective II" course from Semester V to VI of B Tech and MBA Tech IT

54th Academic Council Meeting

SVKM's NMIMS Deemed-to-be University
Mukesh Patel School of Technology Management and Engineering

- Shifting of "Department Elective IV" course from Semester VI to VII of B Tech and MBA Tech IT
 - Removal of "Department Elective VI" course from Semester VII of B Tech and MBA Tech IT
 - Renaming the course "Minor Project" to 'Capstone Project' in Semester VII for B Tech IT with increase in credits from 2 to 4 for B Tech IT
 - Removing the course "Technical Internship" from Semester VII for B Tech IT
 - Renaming the course "Major Project" to "Project based Internship" in Semester VIII with reduction in credits from 12 to 10 in SEM VIII for B Tech IT
 - Removing "Minor Project" from Semester VII for MBA Tech IT
 - Increase in credits for course "Technical Internship" from 0 to 5 in Semester VII for MBA Tech IT
 - Reducing the credit from 8 to 5 of course "Major Project" from Semester VIII for MBA Tech IT
- ii. Revision in Teaching & Examination Scheme and syllabi of the listed courses of Semester III for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 onwards (**Encl. - IIa**)
- Digital Logic Design - Sem III (Approved in BoS of EXTC program)
 - Signals and Systems - Sem III (Approved in BoS of EXTC program)
 - Database Management Systems - Sem III (Approved in BoS of AI program)
 - Computer Organisation and Architecture - Sem III (Approved in BoS of CE program)
 - Web Programming - Sem III (Approved in BoS of AI program)
- III.
- i. Revision in course structure for the students admitted in AY 2020-21 and direct second year students admitted in AY 2021-22 onwards (**Encl.-III**)
- Renaming the course "Minor Project" to "Capstone Project" in Semester VII for B Tech IT with increase in credits from 2 to 4 for B Tech IT
 - Renaming the course "Major Project" to "Project based Internship" with reduction in credits from 12 to 10 in Semester VIII for B Tech IT
 - Removing the course "Technical Internship" from Semester VII for B Tech IT
 - Removing "Minor Project" from Semester VII for MBA Tech IT
 - Increase in credits for course "Technical Internship" from 0 to 4 in Semester VII for MBA Tech IT
 - Reducing the credit from 8 to 5 of course "Major Project" from Semester VIII for MBA Tech IT
- ii. Introduction of Teaching and Examination Scheme and syllabi of Semester V courses for the B Tech and MBA Tech Information Technology programs. This will be applicable to the students admitted in 2020-21 onwards. (**Encl. - IIIa**)
- Software Engineering
 - Embedded Systems
 - Human Computer Interaction (Approved in BoS of CE program)
 - Department Elective - I & II
 - a) Management Information Systems
 - b) Advanced Data Structures
 - c) Introduction to Cryptography
 - d) Service Oriented Architecture
 - e) Programming for Analytics

54th Academic Council Meeting

SVKM's NMIMS Deemed-to-be University
Mukesh Patel School of Technology Management and Engineering

- f) AI and Robotics
 - g) Computer Graphics
 - h) Advanced Computer Networks
 - Open Elective - I & II
- IV. Introduction of Teaching & Examination Scheme and Syllabi of open elective course offered by the Information Technology Department for Semester V and VI. This will be applicable for students of B Tech and MBA Tech programs except CSBS and CSE(DS) admitted in academic year 2020-21 onwards (Encl. - IV)
- Game Design
- B. Minor revision in course structure for the students admitted in AY 2021-22 onwards for B. Tech Integrated)
- I.
- i. Revision in Course Structure for the students admitted in AY 2021-22 and direct second year students admitted in AY 2022-23 onwards for B Tech (Integrated) Information Technology(Encl. - V)
- Shifting of the course Environmental Science from Semester VII to VI
 - Increasing the practical hours from 2 to 4 and the credits from 3 to 4 for the course "Programming for Problem Solving" in Semester III. (Approved in BoS of Computer Dept.)
 - Increasing the theory hours from 2 to 3 and the credits from 3 to 4 for the course "Data Structures" in Semester IV (Approved in BoS of Computer Dept.)
 - Splitting the course "English Communication" of 3 credits in Semester V into three courses for 1 credit each
 - "English Communication" in Semester V (Approved in BoS of BSH Dept.)
 - "Technical Communication" in Semester VII (Approved in BoS of BSH Dept.)
 - "Employability Skills" in Semester X (Approved in BoS of BSH Dept.)
 - Shifting of the course "Signals and Systems" from Semester VIII to VII with change in credit from 4 to 3
 - Shifting of the course "Web Programming" from Semester VIII to VII
 - Shifting of the course "Object Oriented Programming" from Semester VII to VIII
 - Renaming the course "Computer Architecture" to "Computer Organization and Architecture" in Semester VII
 - Introducing of the course of "Python Programming", in Semester VII (Syllabus is same as B Tech IT)
 - Shifting of the course "Management Accounting for Engineers" from Semester X to VIII
 - Introducing the course "Technical Communication", in Semester VII
 - Introducing the course of "Employability Skills", in Semester X
 - Introducing the course of "Programming for Analytics", in Semester VIII
 - Introducing the course of "Visual Analytics", in Semester IX
 - Shifting of "Department Elective II" course from Semester IX to X
 - Shifting of "Department Elective IV" course from Semester X to XI
 - Removal of "Department Elective VI" course from Semester XI
 - Renaming the course "Minor Project" to "Capstone Project" in Semester XI with increase in credits from 2 to 4
 - Renaming the course "Major Project" to "Project based Internship" in Semester XII with reduction in credits from 12 to 10

54th Academic Council Meeting

SVKM's NMIMS Deemed-to-be University
Mukesh Patel School of Technology Management and Engineering

- ii. Introduction of Teaching and Examination Scheme of Semester III and syllabus of "Multimedia and Animation" course for B Tech (Integrated) Information Technology program for the students admitted in 2021-22 onwards. - (Encl. Va).

Syllabi of below courses is approved in BOS of mentioned departments.

- Mathematics - III (Approved in BOS of BSH department)
- Physics-III (Approved in BOS of BSH department)
- Chemistry-II (Approved in BOS of BSH department)
- Programming for Problem Solving (Approved in BOS of Computer department)



Chairperson
Dean, Board of Studies

