

## **MBA Tech Subjects**

**(All Branches)**

### **Semester I**

- 1) Engineering Mathematics - I
- 2) Engineering Chemistry
- 3) Basic Electrical Engineering
- 4) Engineering Mechanics – I
- 5) Computer Programming – I
- 6) Workshop Practice
- 7) Constitution of India

### **Semester II**

- 1) Engineering Mathematics – II
- 2) Engineering Physics
- 3) Basic Electronics
- 4) Engineering Drawing
- 5) Engineering Mechanics - II
- 6) Computer Programming – II
- 7) Communication Skills

**(Computer Engineering)**

### **Semester III**

- 1) Data Structure & Algorithms
- 2) Digital Logic Design
- 3) Computer Organization & Architecture
- 4) Database Management System
- 5) Signals & Systems
- 6) Programming Workshop
- 7) Engineering Mathematics – III
- 8) Business Communication
- 9) Contemporary Practices in Management

### **Semester IV**

- 1) Computer Network
- 2) Operating System

- 3) Analog & Digital Communication
- 4) Microprocessor and Microcontroller
- 5) Software Engineering
- 6) Implementation of Technology
- 7) Microeconomics
- 8) Statistical Methods

### **Semester V**

- 1) Fundamentals of Web Technology
- 2) Distributed Systems
- 3) Digital Signal Processing
- 4) Object Oriented Software Engineering
- 5) Information Storage and Management
- 6) Advanced Programming Laboratory
- 7) Macroeconomics
- 8) Financial Accounting
- 9) Information and Communication Technology
- 10) Management
- 11) Managing Data with Spreadsheet

### **Semester VI**

- 1) Introduction to Cloud Computing
- 2) Mobile Computing
- 3) Artificial Intelligence
- 4) Multimedia System and Virtual Reality
- 5) Mobile Application Development Lab
- 6) Quality Management System and Practices
- 7) Project Management
- 8) Cost and Management Accounting
- 9) Project Planning and Execution
- 10) Innovation I. Insights for Innovation
- 11) Innovation II. Thinking tools for building solutions

### **Semester VII**

- 1) System Security
- 2) Elective I (Any one)
  - a) Data Ware-Housing & Mining
  - b) Image Processing
  - c) E-Commerce

- d) Data Science and Big Data Analytics
- e) Parallel Processing
- 3) Financial Analysis and Working Capital Management
- 4) Legal Aspects of Business
- 5) Marketing Management
- 6) Management of Technology and Engineering Trends
- 7) Research Methodology
- 8) Operations Management
- 9) Organizational Behavior
- 10) Skill Enhancement Course (any two)
  - a) Effective Negotiation Skills
  - b) Programming for Analytics
  - c) Marketing Analytics I for Strategic Decision Making
  - d) Introduction to Real Estate Sector
  - e) Real Estate Laws and Regulations

### **Semester VIII**

- 1) Elective – II (any one)
  - a) Software Quality Assurance
  - b) Soft Computing
  - c) Service Oriented Architecture
  - d) Biometric Applications
- 2) Sustainable Business Management Practices
- 3) Advanced Business Communication
- 4) Human Resource Management
- 5) Business Analytics
- 6) Industrial Marketing
- 7) Financial Management
- 8) Research Project – I
- 9) Skill Enhancement Course (any two)
  - a) Effective Planning Systems
  - b) Applications of Business Analytics
  - c) Marketing Analytics II – Forecasting and New Product Analytics
  - d) Principles of Project Construction Management
  - e) Real Estate and Finance

## **(Mechanical Engineering)**

### **Semester III**

- 1) Engineering Mathematics – III
- 2) Manufacturing Processes – I
- 3) Engineering Thermodynamics
- 4) Materials Engineering
- 5) Fluid Mechanics
- 6) Machine Shop – I
- 7) Business Communication
- 8) Contemporary Practices in Management.

### **Semester IV**

- 1) Machine Drawing
- 2) Strength of Materials
- 3) Manufacturing Processes – II
- 4) Theory of Machines – I
- 5) Machine Shop – II
- 6) Thermal Engineering
- 7) Statistical Methods
- 8) Microeconomics

### **Semester V**

- 1) Heat Transfer
- 2) Vibration Engineering
- 3) Design of Machine Elements – I
- 4) Theory of Machines – II
- 5) Fluid Machinery
- 6) Macroeconomics
- 7) Financial Accounting
- 8) Information and Communication Technology Management
- 9) Managing Data with Spreadsheet

### **Semester VI**

- 1) I.C. Engines

- 2) Mechanical Measurement and Metrology
- 3) CAD / CAM / CIM
- 4) Industrial Engineering
- 5) Design of Machine Elements – II
- 6) Mechatronics and Controls
- 7) Quality Management Systems and Practices
- 8) Project Management
- 9) Cost and Management Accounting
- 10) Project Planning and Execution
- 11) Innovation – I. Insights for Innovation.
- 12) Innovation – II. Thinking Tools for building solutions

### **Semester VII**

- 1) Refrigeration and Air Conditioning
- 2) Elective – I (Any one)
  - a) Dynamic System Modeling and Analysis
  - b) Non-Conventional Energy Sources
  - c) Advanced Turbo Machinery
  - d) Automobile Engineering
  - e) Introduction to Nano Technology
- 3) Financial Analysis and Working Capital Management
- 4) Legal Aspects of Business
- 5) Marketing Management
- 6) Management of Technology and Emerging Trends
- 7) Research Methodology
- 8) Operations Management
- 9) Organizational Behavior
- 10) Skill Enhancement Course (Any two)
  - a) Effective Negotiation Skills
  - b) Programming for Analytics
  - c) Marketing Analytics I for Strategic Decision Making
  - d) Introduction to Real Estate Sector
  - e) Real Estate Laws & Regulations

### **Semester VIII**

- 1) Design of Mechanical Systems
- 2) Finite Element Analysis
- 3) Elective II (Any one)
  - a) Tribology
  - b) Additive Manufacturing

- c) Reliability Engineering
- d) Computational Fluid Dynamics
- e) Robotics
- 4) Sustainable Business Management Practices
- 5) Advanced Business Communication
- 6) Human Resource Management
- 7) Business Analytics
- 8) Industrial Marketing
- 9) Financial Management
- 10) Research Project I
- 11) Skill Enhancement Course (Any Two)
  - a) Enterprise Planning Systems
  - b) Application of Business Analytics
  - c) Marketing Analytics II. Forecasting and New Product Analytics
  - d) Principles of Project Construction Management
  - e) Real Estate and Finance.