

# MBA (Tech) (Course structure)

## First Year (Common for All Branches)

Semester - I	Semester - II
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Chemistry	Engineering Physics
Basic Electrical Engineering	Basic Electronics
Engineering Mechanics-I	Engineering Drawing
Computer Programming-I	Engineering Mechanics-II
Workshop Practice	Computer Programming-II
Constitution of India	Communication Skills

## Fifth year - Common for all branches

Semester – IX	Semester – X
MIP	Internet of Things (IOT) Management
Innovations Management	Business Simulation Through Software
Knowledge Management	Leadership
Organisation Design and Development	Research Project II
	Sustainable Business Management Practices
<b>Skill Enhancement Course : (Any One )</b>	<b>Skill Enhancement Course : (Any One)</b>
<ul style="list-style-type: none"> <li>☞ Marketing Analytics for Strategic Decision</li> <li>☞ Financial Technical Analysis</li> <li>☞ Lean Six Sigma</li> <li>☞ Big Data Analytics</li> </ul>	<ul style="list-style-type: none"> <li>☞ Business Valuation Modeling</li> <li>☞ Marketing Analytics - Marketing Mix Models</li> <li>☞ Quality Function Deployment (QFD) for New Product Innovations</li> <li>☞ Advance Tools for Business</li> </ul>
<b>Domain Electives: Any 4 or Minimum 3 from Domain Specialization &amp; 1 from any other domain )</b>	<b>Domain Electives : Any 4 or Minimum 2 from Domain Specialization &amp; 2 from any other domain)</b>
<b>Domain Specialization: Business Intelligence and Analytics</b>	<b>Domain Specialization: Business Intelligence and Analytics</b>
<ul style="list-style-type: none"> <li>☞ Data Mining &amp; Analytics</li> <li>☞ Big Data Technology</li> <li>☞ Business Models in Digital Economy</li> <li>☞ Base Programming</li> <li>☞ Technology Ventures</li> <li>☞ Cyber Security Management</li> </ul>	<ul style="list-style-type: none"> <li>☞ Visual Analytics</li> <li>☞ Managing Cloud Computing</li> <li>☞ Predictive Analytics</li> <li>☞ ETL-Data Gathering and Loading</li> <li>☞ Business Dynamics of IT Industry</li> </ul>
<b>Domain Specialization: Finance</b>	<b>Domain Specialization: Finance</b>
<ul style="list-style-type: none"> <li>☞ Financial Institutions and Markets</li> <li>☞ Investment Banking and Financial Services</li> <li>☞ Security Analysis</li> <li>☞ International Finance</li> <li>☞ Management of Mergers and acquisitions</li> </ul>	<ul style="list-style-type: none"> <li>☞ Financial Planning and Portfolio Management</li> <li>☞ Financial Risk Management</li> <li>☞ Project Infrastructure and Finance</li> <li>☞ Financial Engineering</li> <li>☞ Financial Analytics</li> </ul>
<b>Domain Specialization: Marketing</b>	<b>Domain Specialization: Marketing</b>
<ul style="list-style-type: none"> <li>☞ Brand Management</li> <li>☞ Sales &amp; Distribution Management</li> <li>☞ Buyer Behavior</li> <li>☞ Integrated Marketing Communication</li> <li>☞ Customer Relationship Management</li> <li>☞ Services Marketing</li> </ul>	<ul style="list-style-type: none"> <li>☞ Marketing Strategy</li> <li>☞ Online Marketing</li> <li>☞ Marketing of Technology Products</li> <li>☞ International Marketing</li> <li>☞ Media Planning</li> </ul>
<b>Domain Specialization: Operations, Project &amp; Infrastructure Management</b>	<b>Domain Specialization: Operations, Project &amp; Infrastructure Management</b>
<ul style="list-style-type: none"> <li>☞ Operation Research</li> </ul>	<ul style="list-style-type: none"> <li>☞ Operations Strategy</li> </ul>

- ☞ Operation Planning & Control
- ☞ Services Operations Management
- ☞ Supply Chain & Logistics Management
- ☞ Project Procurement Management
- ☞ Project Risk Management
- ☞ Project Configuration and Change Management
- ☞ Introduction to Infrastructure Management
- ☞ Business Models in Infrastructure Management

- ☞ World Class Manufacturing Practices
- ☞ Business Process Management
- ☞ Advanced Project Management
- ☞ Project Contracts and Claims Management
- ☞ Project Portfolio and Program Management
- ☞ Global Trends in Infrastructure Management
- ☞ Infrastructure Management in Industry Sector: Energy, Transportation and Real Estate

**Foreign Language : (Any One )**

- ☞ Spanish
- ☞ Chinese
- ☞ German

**MBA (Tech.) (Mechanical Engineering) – Course Structure**

**Second Year**

Semester - III	Semester - IV
Engineering Mathematics - III	Machine Drawing **
Manufacturing Processes - I	Strength of Materials
Engineering Thermodynamics	Manufacturing Processes - II
Materials Engineering	Theory of Machines - I
Fluid Mechanics	Machine Shop-II
Machine Shop - I	Thermal Engineering
Business Communication	Statistical Methods
Contemporary Practices in Management	Microeconomics

\*\* Practical examination to be conducted at school

level

**Third Year**

Semester - V	Semester – VI
Heat Transfer	I. C. Engines
Vibration Engineering	Mechanical Measurement and Metrology
Design of Machine Elements - I	CAD/CAM/CIM
Theory of Machines - II	Industrial Engineering
Fluid Machinery	Design of Machine Elements - II
Macroeconomics	Mechatronics and Controls
Financial Accounting	Quality Management Systems and Practices
Information and Communication Technology Management	Project Management
Managing Data with Spreadsheet	Cost and Management Accounting
	Project Planning and Execution
	Innovation – I Insights for Innovation
	Innovation – II – Thinking tools for building

	solutions
<b>Fourth Year</b>	
<b>Semester - VII</b>	<b>Semester – VIII</b>
TIP (8 Weeks during summer vacation)	Design of Mechanical Systems
Refrigeration and Air Conditioning	Finite Element Analysis
<b>Elective – I (Any One)</b>	<b>Elective – II (Any One)</b>
<ul style="list-style-type: none"> <li>☞ Dynamic System Modeling and Analysis</li> <li>☞ Non-Conventional Energy Sources</li> <li>☞ Advanced Turbomachinery</li> <li>☞ Automobile Engineering</li> <li>☞ Introduction to Nano-Technology</li> </ul>	<ul style="list-style-type: none"> <li>☞ Tribology</li> <li>☞ Additive Manufacturing</li> <li>☞ Reliability Engineering</li> <li>☞ Computational Fluid Dynamics</li> <li>☞ Robotics</li> </ul>
Financial Analysis and Working Capital Management	Sustainable Business Management Practices
Legal Aspects of Business	Advanced Business Communication
Marketing Management	Human Resource Management
Management of Technology and Emerging Trends	Business Analytics
Research Methodology	Industrial Marketing
Operations Management	Financial Management
Organizational Behavior	Research Project -I
<b>Skill Enhancement Course : (Any Two )</b>	<b>Skill Enhancement Course : (Any Two )</b>
<ul style="list-style-type: none"> <li>☞ Effective Negotiation Skills</li> <li>☞ Programming for Analytics</li> <li>☞ Marketing Analytics I – for Strategic Decision Making</li> <li>☞ Introduction to Real Estate Sector</li> <li>☞ Real Estate Laws and Regulations</li> </ul>	<ul style="list-style-type: none"> <li>☞ Enterprise Planning Systems</li> <li>☞ Application of Business Analytics</li> <li>☞ Marketing Analytics II - Forecasting and New Product Analytics</li> <li>☞ Principles of Project Construction Management</li> </ul>

### MBA Tech. (Computer Engineering) Course Structure

<b>Semester - III</b>	<b>Semester - IV</b>
Data Structure & Algorithms	Computer Network
Digital Logic Design	Operating System
Computer Organization & Architecture	Analog & Digital Communication
Database Management System	Microprocessor and Microcontroller
Signals & Systems	Software Engineering
Programming Workshop	Implementation of Technology
Engineering Mathematics - III	Microeconomics
Business Communication	Statistical Methods
Contemporary Practices in Management	
<b>Third Year</b>	
<b>Semester - V</b>	<b>Semester – VI</b>
Fundamentals of Web Technology	Introduction to Cloud Computing
Distributed Systems	Mobile Computing
Digital Signal Processing	Artificial Intelligence
Object Oriented Software Engineering	Multimedia System and Virtual Reality
Information Storage and Management	Mobile Application Development Lab
Advanced Programming Laboratory	Quality Management Systems and Practices
Macroeconomics	Project Management
Financial Accounting	Cost and Management Accounting
Information and Communication Technology Management	Project Planning and Execution
Managing Data with Spreadsheet	Innovation – I Insights for Innovation
	Innovation – II – Thinking tools for building solutions

**Fourth Year**

Semester - VII	Semester – VIII
TIP (8 Weeks during summer vacation)	<b>Elective -II (Any One)</b> ④ Software Quality Assurance ④ Soft Computing ④ Service Oriented Architecture ④ Biometric Applications
System Security	
<b>Elective - I (Any One)</b> ④ Data Ware-Housing & Mining ④ Image Processing ④ E-Commerce ④ Data Science and Big Data Analytics ④ Parallel Processing	
Financial Analysis and Working Capital Management	
Legal Aspects of Business	
Marketing Management	
Management of Technology and Emerging Trends	
Research Methodology	
Operations Management	
Organizational Behavior	
	Sustainable Business Management Practices Advanced Business Communication Human Resource Management Business Analytics Industrial Marketing Financial Management Research Project -I
<b>Skill Enhancement Course : (Any Two )</b> ④ Effective Negotiation Skills ④ Programming for Analytics ④ Marketing Analytics I – for Strategic Decision Making ④ Introduction to Real Estate Sector ④ Real Estate Laws and Regulations	<b>Skill Enhancement Course : (Any Two )</b> ④ Enterprise Planning Systems ④ Application of Business Analytics ④ Marketing Analytics II - Forecasting and New Product Analytics ④ Principles of Project Construction Management ④ Real Estate and Finance