

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

Course Structure for MBA Tech Data Science Programme (Batch 2022-27)					
Year of the Programme: First Year (Academic Year 2022-23)					
Semester - I			Semester - II		
S. No.	Course	Credits	S. No.	Course	Credits
1	Calculus	4	1	Linear Algebra and Differential Equations	4
2	Physics	4	2	Quantum and Statistical Physics	3
3	English Communication	1	3	Elements of Biology	3
4	Programming for Problem Solving	4	4	Engineering Graphics and Design	3
5	Basic Electrical and Electronics Engineering	3	5	Principles of Economics and Management	3
6	Design Thinking	0	6	Python for Data Analysis	2
7	Digital Manufacturing Laboratory	1	7	Professional Ethics	1
8	Electrical and Electronics Workshop	1	8	Constitution of India	0
9	Environmental Science	2	9	Critical Thinking	0
	Total	20		Total	19
Year of the Programme: Second Year (Academic Year 2023-24)					
Semester - III			Semester - IV		
S. No.	Course	Credits	S. No.	Course	Credits
1	Optimization Methods	4	1	Stochastic processes and Applications	3
2	Management Accounting for Engineers	2	2	Statistical Structures in Data and Inference	4
3	Managing Uncertainty	4	3	Database Management Systems	3
4	Data Wrangling	3	4	Data Handling and Visualization	2
5	Information Security and Privacy	2	5	Introduction to Data, Signal and Image Analysis	4
6	Technical Communication	1	6	Mobile Application Development	3
7	Data Structures and Algorithms	4			
8	Community Service	0			
	Total	20		Total	19
Year of the Programme: Third Year (Academic Year 2024-25)					
Semester - V			Semester - VI		
S. No.	Course	Credits	S. No.	Course	Credits
1	Introduction to Modern Application Development	3	1	Computer Vision and Applications	3
2	Applied Artificial Intelligence	4	2	Applications of Machine Learning	3
3	Foundations of Machine Learning	4	3	Advance Data Structure for Analytics	3
4	Department Elective - I	3	4	Big Data Analytics	3
5	Department Elective - II	3	5	Department Elective - III	3
6	Open Elective - I	3	6	Open Elective III	3
7	Open Elective - I	3	7	Open Elective - IV	3
			8	Interpersonal Skills	1
	Total	23		Total	22

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Year of the Programme: Fourth Year (Academic Year 2025-26)					
Semester - VII			Semester - VIII		
S. No.	Course	Credits	S. No.	Course	Credits
1	Neural Networks and Deep Learning	3	1	Capstone Project	5
2	Speech and Natural Language Processing	3	2	Department Elective - IV	3
3	MLOps	3	3	Department Elective - V	3
4	Open Elective - V	3			
5	Technical Internship	4			
	Total	16		Total	11
	Management Subjects			Management Subjects	
1	Business Statistics	2	1	Business Analytics	3
2	Operations Management	3	2	Logistics and Supplychain Management	2
3	Quantitative Techniques	2	3	Financial Management	3
4	Financial Accounting and Analysis	3	4	B2B Marketing	2
5	Marketing Management	3	5	Contract, Competition and Consumer Laws	2
6	Macroeconomics	2	6	Organizational Behaviour	2
7	Spreadsheet Modelling	1	7	Business Research Methods	2
			8	Personal Skills for Business	2
			9	Information System Management	2
	Total	16		Total	20
Year of the Programme: Fifth Year (Academic Year 2026-27)					
Semester - IX			Semester - X		
S. No.	Course	Credits	S. No.	Course	Credits
	Compulsory Subjects			Compulsory Subjects	
1	Human Resource Management	2	1	Strategic Management	3
2	Management of Technology and Innovation	2	2	Sustainable Business Management Practices	2
3	Business Communication	2	3	Entrepreneurship	2
4	Elective- 1	2	4	Elective- 5	2
5	Elective- 2	2	5	Elective- 6	2
6	Elective- 3	2	6	Elective- 7	2
7	Elective- 4	2	7	Elective- 8	2
	Total	14		Total	15
	Value Added course				
1	Management Internship Programme - 14-16 weeks	12			
	Total	26			

Total Credits for the Programme **227**

Total No. of Subjects **86**

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Department Elective - I and II			Department Elective - III		
S. No.	Course	Credits	S. No.	Course	Credits
1	Predictive Analysis	3	1	Quantitative Finance	3
2	Simulation Modelling and Analysis	3	2	Marketing Strategy and Analytics	3
3	Internet of Things Analytics	3	3	Non-parametric Statistical Inference	3
4	Data Driven Program Analysis	3	4	Supply chain and Analytics	3
5	Applied Time Series Analysis	3			
6	Virtualization and Cloud Computing	3			

Department Elective - IV and V			Open Electives		
S. No.	Course	Credits	S. No.	Course	Credits
1	Advanced Database Management Systems	3	1	Data Analytics	3
2	Advanced Computer Vision	3	2	Basic Decision making with Spreadsheet	3
3	DevOps	3	3	Algorithmic Trading	3
4	Metaverse	3			
5	Reinforcement Learning	3			
6	Quantum Machine Learning	3			