

13 Course Structures and Guidelines – of all programmes

MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT AND ENGINEERING

Vision

Play a distinct role in providing excellence in engineering and technology management education thereby creating human resources of value to industry and society both at national and international level.

Mission

1. Formulate relevant curriculum through strong industry linkages and interaction.
2. Ensure quality of education through pedagogical innovations
3. Undertake and promote relevant research
4. Ensure multifaceted development of students, faculty and staff through continuous introspection and inputs.
5. Set up the international linkages with Institutes /industry of repute

Computer Engineering Department

Vision

Play a significant role in creating Computer Engineering Graduates with sound technical and managerial skills of value to industry and society both at national and international level.

Mission

The Computer Engineering Department endeavors for excellence in creating, applying and imparting knowledge in computer engineering through comprehensive curriculum and innovative teaching-learning process. Provide a sound technical and managerial foundation and multifaceted development that prepares student to excel in higher education, research or technical/managerial profession that can adapt to rapidly changing technology in computer engineering.

Program Educational Objectives (PEO)- BTech Computer Engineering/BTech CSBS/BTech CSE-DS

- A. **PEO 1-** Be successful in their professional career exhibiting ethical attitude and good communication skills with exposure to agile technologies.
- B. **PEO 2-** Analyze, design and solve problems in their domain using computer engineering knowledge
- C. **PEO 3-** Pursue Higher Education.

Program Student Outcomes (PSO's) - BTech Computer Engineering

- A. **PSO 1- Application of Engineering Knowledge to Solve Complex Problems:** Graduates will be able to apply principles of computer engineering, including software and hardware design, data structures and algorithms to develop solutions for complex engineering problems.
- B. **PSO 2- Software Development & Design:** Graduates will be able to design, develop, and deploy software systems that meet specific requirements using contemporary and advanced programming languages, frameworks, and tools mapping with software development lifecycle.

Student Outcomes (SOs)

Graduates of the B Tech. in Computer Engineering program will have an ability to:

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

Program Structure for B Tech Computer Engineering (Batch 2025-29)					
Year of the Programme: First Year (Academic Year 2025-26)					
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 Physics	3
3	Elements of Biology	3	3	Object Oriented Programming	2
4	Computational Thinking for Problem Solving	4	4	Object Oriented Programming Lab	1
5	Engineering Graphics and Design	2	5	Basic Electrical and Electronics Engineering	3
6	Essential Electronics Practices	1	6	Product Realization	2
7	Engineering Ethics	1	7	English Communication	1
8	Indian Knowledge System	0	8	Web Development	3
9	Environmental Studies	0	9	Constitution of India	0
Total		19	Total		19
Year of the Programme: Second Year (Academic Year 2026-27)					
Semester – III			Semester – IV		
S. No.	Course	Credits	S. No.	Course	Credits
1	Signals and Systems	3	1	Operating Systems	4
2	Computer Organization and Architecture	3	2	Database Management Systems	3
3	Data Structures and Algorithms	3	3	Complex Variables and Transforms	4
4	Data Structures and Algorithms Lab	1	4	Design and Analysis of Algorithms	4
5	Principles of Economics and Management	3	5	Database Management Systems Lab	1
6	Probability and Statistics	3	6	Design Experience I	1
7	Discrete Mathematics	3	7	Computer Networks	4
8	Technical Communication	1	8	Machine Learning	3
9	Community Service	0			
10	Programming with Python	2			
Total		22	Total		24
Year of the Programme: Third Year (Academic Year 2027-28)					
Semester – V			Semester – VI		
S. No.	Course	Credits	S. No.	Course	Credits
1	Software Engineering	4	1	Transforming Ideas to Innovation	1
2	Program Elective-I	4	2	Compiler Design	3
3	Advanced Linear Algebra	2	3	Artificial Intelligence	3
4	Program Elective-II	3	4	Open Elective-III	3
5	Open Elective-I	3	5	Open Elective-IV	3
6	Open Elective-II	3	6	Design Experience III	2
7	Design Experience II	2	7	Program Elective-III	3
8	Career Guidance	0	8	Program Elective-IV	3
9	Theoretical Computer Science	3	9	Interpersonal Skills	1
Total		24	Total		22
Year of the Programme: Fourth Year (Academic Year 2028-29)					
Semester – VII			Semester – VIII		
S. No.	Course	Credits	S. No.	Course	Credits
1	Capstone Project	5	1	Project	10
2	Distributed Computing	3			
3	Program Elective-V	4			
4	Management Accounting for Engineers	2			
5	Open Elective-V	3			
6	Program Elective-VI	3			
Total		20	Total		10
Total no of courses		61			
Total no of credits		160			

14 Approved Academic Calendar of all programs

SVKM's NMIMS
Academic Calendar for the Academic Year: 2025-2026

School Name: Mukesh Patel School of Technology Management & Engineering, Campus: Mumbai, Shirpur
School of Technology Management & Engineering, Campus: Navi Mumbai, Indore, Chandigarh, Hyderabad
Program/s Name/s in Full: Diploma, B Tech, MBA Tech

Diploma, B Tech, MBA Tech 1st year		
	Start Date	End Date
Odd Semester / Term I		
Orientation/Induction Program – Diploma	July 11, 2025	July 17, 2025
Orientation/Induction Program – B Tech / MBA Tech	July 12, 2025	July 18, 2025
Commencement of Term – Diploma	July 18, 2025	November 15, 2025
Commencement of Term – B Tech / MBA Tech	July 19, 2025	November 15, 2025
Mid Term Test I	August 18, 2025	August 23, 2025
MBA Tech Semester I (Only for Management subjects as per teaching scheme)	September 15, 2025	September 20, 2025
Mid Term Test II	October 6, 2025	October 11, 2025
Term End Exam	November 24, 2025	December 11, 2025
Re-exam	January 31, 2026	February 10, 2026
Diwali Vacation	19th Oct, 2025	25th Oct, 2025
Even Semester / Term II		
Commencement of Term	January 2, 2026	April 25, 2026
Mid Term Test I	February 13, 2026	February 19, 2026
MBA Tech Semester II (Only for Management subjects as per teaching scheme)	March 9, 2026	March 14, 2026
Mid Term Test II	March 23, 2026	March 28, 2026
Term End Exam	May 2, 2026	May 16, 2026
Re-exam	July 06, 2026	July 16, 2026
Winter Vacation	December 26, 2025	January 1, 2026
Commencement of next Academic year (AY 2026-27)	July 13, 2026	


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*Dates are subject to change if required. Please reconfirm the dates before booking any tickets.