

**SVKM's NMIMS**  
**Mukesh Patel School of Technology Management & Engineering**  
**Syllabus Structure - B.Tech. (Computer Engineering)**

**First Year (All Branches)**

<b>First year (Common for All Branches)</b>		
<b>Trimester I</b>	<b>Trimester II</b>	<b>Trimester III</b>
Applied Maths I	Applied Maths II	Applied Maths III
Applied Science I	Communication Skill	Workshop
Engineering Drawing	Engineering Mechanics	Applied Science II
Basic Electrical Engineering	Basic Electronics	Electrical Measuring instruments & Machines
Computer Programming-I	Computer Programming-II	Computer Application
<b>Second year</b>		
<b>Trimester IV</b>	<b>Trimester V</b>	<b>Trimester VI</b>
Applied Maths IV**	Applied Maths –V**	Discrete Structures
Data Structures and Numerical Techniques	Computer Organization & Architecture*	Operating Systems*
Digital Logic Design *	Analog & Digital Communication	System Programming
Micro Processors & Micro Controllers *	Database Management Systems *	Computer Networks*
Programming Workshop*	Environmental Studies **	Seminar – 2 (Presentation)
	Seminar – 1 (Report)	
<b>Third year.</b>		
<b>Trimester VII</b>	<b>Trimester VIII</b>	<b>Trimester IX</b>
Theoretical Computer Science	Digital Signal Processing*	Image Processing *
Software Engineering *	Object Oriented Software Engineering	Principles of Compiler Design
Design & Analysis of Algorithms		Advance Computer Networks*
Fundamentals of Web Technology	Computer Graphics	Industrial Economics & Management
Seminar – 3 (Report)	Unix Programming*	Project Workshop
Constitution of India **	Seminar – 4 (Presentation)	
<b>Fourth Year</b>		
<b>Trimester X</b>	<b>Trimester XI</b>	<b>Trimester XII</b>
Multimedia Systems *	Intelligent Systems	Mobile Computing
Advanced Computer Architecture	System Security	Distributed Computing *
Elective-I <ul style="list-style-type: none"> <li>• Embedded Systems</li> <li>• Data warehousing &amp; Mining</li> <li>• Advanced DBMS</li> <li>• Information Storage &amp; Management</li> </ul>	Elective- II <ul style="list-style-type: none"> <li>• Software Architecture</li> <li>• Parallel Computing</li> <li>• Network Programming</li> </ul>	Elective – III <ul style="list-style-type: none"> <li>• Bio-Informatics</li> <li>• Geographical Information Systems</li> <li>• Robotics</li> </ul>
• Project-I	Project-II	Project-III

\* Common Syllabus for Computer & IT

\*\* Common for all Branches