

Tentative Course Structure for the **M.Tech. (CSE) Program**

Cat.	Course Title		L-T-P	Credits	Cat.	Course Title		L-T-P	Credits
I Semester					II Semester				
C	CSxxx	Fractal Maths: Linear Algebra, Probability, Statistics and Random Processes, Optimization	3-0-0	3	C	CSxxx	Computer Architecture	3-0-0	3
C	CSxxx	Algorithms for big data	3-0-0	3	C	CSxxx	Software and data architecture	3-0-0	3
C	CSxxx	Machine Learning I	3-0-0	3	C	CSxxx	Computer Networks	3-0-0	3
PE		Program Elective-1	3-0-0	3	PE		Program Elective-3	3-0-0	3
PE		Program Elective-2	3-0-0	3	OE		Open Elective-1	3-0-0	3
C	CSxxx	Data structures and practices	1-0-2	2					
Total				17	Total				15
III Semester					IV Semester				
P	CSxxx	Major Project – Part 1		5	P	CSxxx	Major Project – Part 2		11
PE		Program Elective-4		3	PE		Program Elective-6		3
PE		Program Elective-5		3					
OE		Open Elective-2		3					
Total				14	Total				14

Electives:

- (Real-time and) Embedded systems
- Vehicular ad-hoc networks
- Security
- Gaming
- (Advanced) Graphics
- Visualization
- AR/VR
- Edge and fog computing
- Algorithms for big data
- Digital humanities
- Graph theory and applications
- Quantum computing