

Course Structure of Y18 Batch

M.TECH - COMPUTER SCIENCE & ENGINEERING

First Year (First Semester)

S. No.	Course Code	Course Title	Credits
1	18 CS 5101	Mathematical Foundations of Computer Science	4
2	18 CS 5102	Computer Organization & Architecture	4
3	18 CS 5103	Data Structures & Algorithms	4
4	18 CS5104	Distributed Database Management System	4
5		Elective – 1	3
6		Elective - 2	3
7	18 IE 5149	Seminar	2

First Year (Second Semester)

S. No.	Course Code	Course Title	Credits
1	18 CS 5205	Operating System Design	4
2	18 CS 5206	Computer Networks & Security	4
3	18 CS 5207	Object Oriented Analysis and Design	4
4	18 CS 5208	Enterprise Programming	4
5		Elective – 3	3
6		Elective - 4	3
7	18 IE 5250	Term Paper	2

Second Year (First & Second Semester)

S.No	Course code	Course Title	Credits
1	18 IE 6050	Dissertation	36

ELECTIVE COURSES

S.No	Course code	Course Title	Credits
Open Elective 1			
1	18 CS 51A1	Soft Computing	3
2	18 CS 51A2	Machine Learning and pattern Classification	3

3	18 CS 51A3	Data Mining	3
4	18 CS 51A4	Natural Language Processing	3
Open Elective 2			
1	18 CS 51B1	Requirements Engineering	3
2	18 CS 51B2	Principles of Programming Languages	3
3	18 CS 51B3	Compiler Design	3
4	18 CS 51B4	Software Testing & Quality Assurance	3
Open Elective 3			
1	18 CS 52C1	Cryptography & Network Security	3
2	18 CS 52C2	Mobile computing	3
3	18 CS 52C3	High Performance Computing	3
4	18 CS 52C4	Network management Systems	3
Open Elective 4			
1	18 CS 52D1	Service Oriented Architecture	3
2	18 CS 52D2	Visual Programming	3
3	18 CS 52D3	Digital Image Processing	3
4	18 CS 52D4	Big Data Analytics	3