



**School of Engineering & Technology**

**Department of Computer Science and Engineering**

**M.Tech. – Computer Science and Engineering**

**Semester I, II, III & IV**

**AY 2023-2025**

**Semester I**

Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
				L	T	P		C	CA
<b>Theory</b>									
1.	BSC		Mathematical and Statistical Foundations	3	0	0	3	40	60
2.	ESC		Advanced Data Structures & Algorithms	3	0	0	3	40	60
3.	MC		Research Methodology and IPR	2	0	0	2	40	60
4.	ESC		Machine Learning	3	1	0	4	40	60
5.	ESC		DSE 1	3	0	2	4	40	60
6.	AC		Audit Course	2	0	0	0	0	0
<b>Practical</b>									
1.	ESC		Advanced Data Structures & Algorithms LAB 1	0	0	4	2	50	50
2.	ESC		Machine Learning Lab	0	0	4	2	50	50
<b>TOTAL</b>				<b>16</b>	<b>1</b>	<b>10</b>	<b>20</b>	<b>300</b>	<b>400</b>

**List of DSE 1:**

- 1 Machine Learning
- 2 Introduction to Intelligent Systems
- 3 Cyber security

Any other subject offered from time to time with the approval of the  
4 University



## List of DSE 2:

- 1 Fundamentals of Data Science
- 2 Software engineering
- 3 Advanced Web Technology

Any other subject offered from time to time with the approval of the University

## List of Audit Course:

- 1 Constitution of India
- 2 Disaster Management
- 3 Industrial Safety

Any other subject offered from time to time with the approval of the University

## Semester II

Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
				L	T	P		C	CA
<b>Theory</b>									
1.	ESC		Big Data Analytics	3	1	0	4	40	60
2.	ESC		Advanced Database Management System	3	0	0	3	40	60
3.	ESC		DSE 3	3	0	0	3	40	60
4.	ESC		DSE 4	3	0	0	3	40	60
<b>Practical</b>									
1.	ESC		DSE 3 LAB	0	0	4	2	50	50
2.	ESC		Advanced Database Management System Lab	0	0	2	1	50	50
			Minor Project	0	0	8	4	50	50
<b>TOTAL</b>				<b>12</b>	<b>1</b>	<b>14</b>	<b>20</b>	<b>310</b>	<b>390</b>



## List of DSE 3:

1. Advanced Graph Theory
2. Image processing
3. Natural Language Processing
4. Compiler design

Any other subject offered from time to time with the approval of the University

## List of DSE 4:

1. Data Communication and Computer Networks
2. Wireless Technologies for WSN & IoT
3. Cloud Computing

Any other subject offered from time to time with the approval of the University

## Semester III

Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
				L	T	P		C	CA
<b>Theory</b>									
1.	ESC		Deep Learning	3	0	0	3	40	60
2.	ESC		DSE 5	3	0	0	3	40	60
<b>Practical</b>									
1.	ESC		Deep Learning LAB	0	0	4	2	50	50
2.	ESC		Dissertation Phase-I	0	0	24	12	50	50
<b>TOTAL</b>				<b>6</b>	<b>0</b>	<b>28</b>	<b>20</b>	<b>180</b>	<b>220</b>

## List of DSE 5:

1. Crypto & Cyber Security
2. Fundamentals Of Bioinformatics
3. Advanced operating system

Any other subject offered from time to time with the approval of the University



## Semester IV

Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
				L	T	P	C	CA	FA
<b>Project</b>									
1.	PCC		Dissertation Phase - II	0	0	36	18	50	50
2.	AEC		Seminar	0	1	2	2	50	50
<b>TOTAL</b>				<b>0</b>	<b>1</b>	<b>38</b>	<b>20</b>	<b>100</b>	<b>100</b>