

**J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(UGC AUTONOMOUS)  
**Bhaskar Nagar, Moinabad Mandal, R.R. District, Hyderabad -500075**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**M. Tech - COMPUTER SCIENCE AND ENGINEERING (CSE): R-24**

**COURSE STRUCTURE (2024-2025)**

<b>I YEAR – I SEMESTER</b>							
<b>Sl. No</b>	<b>Code</b>	<b>Core/ Elective</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	MM71A	Core1	Advanced Data Structures	3	0	0	3
2.	MM71B	Core2	Advanced Operating Systems	3	0	0	3
3.	MM71C	PE 1	1. Modern Database Management Systems	3	0	0	3
	MM71D		2. Advanced Computer Networks				
	MM71E		3. Cloud Computing				
4.	MM71F	PE 2	1. Advanced Software Engineering	3	0	0	3
	MM71G		2. Cryptography and Network Security				
	MM71H		3. Data Science				
5.	MM71I	Lab1	Advanced Data Structures Lab	0	0	4	2
6.	MM71J	Lab2	Advanced Operating Systems Lab	0	0	4	2
7.	MM91A	MC-I	Soft Skills	2	0	0	0
<b>TOTAL CREDITS</b>				<b>14</b>	<b>0</b>	<b>8</b>	<b>16</b>
<b>I YEAR – II SEMESTER</b>							
<b>Sl. No</b>	<b>Code</b>	<b>Core/ Elective</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	MM72A	Cor 3	Advanced Algorithms	3	0	0	3
2.	MM72B	Cor 4	Machine Learning	3	0	0	3
3.	MM72C	PE 3	1. Big data Analytics	3	0	0	3
	MM72D		2. Wireless Sensor Networks				
	MM72E		3. Computer Vision				
4.	MM72F	PE 4	1. High Performance Computing	3	0	0	3
	MM72G		2. Internet of Things				
	MM72H		3. Fog and Edge Computing				
5.	MM92A	Core	Research Methodology and IPR	2	0	0	2
6.	MM72I	Lab1	Advanced Algorithms Lab	0	0	4	2
7.	MM72J	Lab2	Machine Learning Lab	0	0	4	2
8.	MM92B	MC-II	Personality Development and Professional Values	2	0	0	0
<b>TOTAL CREDITS</b>				<b>16</b>	<b>0</b>	<b>8</b>	<b>18</b>

<b>II YEAR – I SEMESTER</b>							
<b>Sl. No.</b>	<b>Code</b>	<b>Core/ Elective</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	MM73A	PE 5	1. Deep Learning	3	0	0	3
	MM73B		2. Block chain Technology				
	MM73C		3. Quantum Computing				
2.		OE	Open Elective I	3	0	0	3
3.	MM731		Mini Project	0	0	4	2
4.	MM732		Technical Seminar	0	0	2	1
5.	MM733	Major Project	Major Project Phase-I Dissertation	0	0	20	09
<b>TOTAL CREDITS</b>				<b>6</b>	<b>0</b>	<b>26</b>	<b>18</b>
<b>II YEAR – II SEMESTER</b>							
<b>Sl. No.</b>	<b>Code</b>	<b>Core/ Elective</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	MM74A	Major Project	Major Project Phase-II Dissertation	0	0	32	16
<b>TOTAL CREDITS</b>				<b>0</b>	<b>0</b>	<b>32</b>	<b>16</b>
<b>GRAND TOTAL CREDITS</b>							<b>68</b>

**PE:** Program Elective

**OE:** Open Elective

**R24 COURSE STRUCTURE (2024-2025)**

<b>Open Elective-I</b>									
<b>S. No.</b>	<b>Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>D</b>	<b>Credits</b>	<b>Category</b>	<b>Common Subject (Y/N)</b>
1	MM3OA	Disaster Management	3	0	0	0	3	OEC	CE
2	MM3OB	Precast & Prefabricated Construction	3	0	0	0	3	OEC	CE
3	MM6OA	Clean Room Technology and Maintenance.	3	0	0	0	3	OEC	ECE
4	MM6OB	Principles of Computer Communications and Networks.	3	0	0	0	3	OEC	ECE
5	MM2OA	Renewable Energy Technologies and Battery Storage	3	0	0	0	3	OEC	EEE
6	MM2OB	Solar and Energy Storage Systems	3	0	0	0	3	OEC	EEE
7	MM1OA	Industrial Safety	3	0	0	0	3	OEC	MECH
8			3	0	0	0	3	OEC	CSE
9			3	0	0	0	3	OEC	CSE