

**DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY**  
**M. Tech in Computer Science and Engineering (Networks)**  
**Program Structure (Applicable to 2023 admission onwards)**

YEAR	FIRST SEMESTER							SECOND SEMESTER						
	SUB CODE	SUBJECT NAME	L	T	P	C	SUB CODE	SUBJECT NAME	L	T	P	C		
<b>I</b>	MAT 5134	Mathematical Foundations of Computer Networking	3	1	0	4	ICT 5213	Advanced Communication Network Technologies	4	0	0	4		
	ICT 5114	Advanced Data Structures and Algorithms	4	0	0	4	ICT 5214	Systems and Network Security	4	0	0	4		
	ICT 5115	Advanced Operating Systems	4	0	0	4	ICT ****	Program Elective-I	3	0	0	3		
	ICT 5116	Communication Network Protocols	4	0	0	4	ICT ****	Program Elective-II	3	0	0	3		
	ICT 5117	Mobile Computing and Communication	3	0	0	3	ICT ****	Program Elective-III	4	0	0	4		
	HUM 5051	Research Methodology and Technical Communication*	1	0	3	-	*** ****	Open Elective	3	0	0	3		
	ICT 5141	Algorithms and Operating Systems Lab**	0	0	3	2	HUM 5051	Research Methodology and Technical Communication*	1	0	3	2		
	ICT 5142	Network Modeling and Performance Lab **	0	0	3	2	ICT 5242	Network Security Lab**	0	1	3	2		
							ICT 5244	Network Engineering Capstone Project**	0	0	3	2		
	<b>Total</b>		<b>19</b>	<b>1</b>	<b>6</b>	<b>23</b>			<b>20</b>	<b>1</b>	<b>9</b>	<b>27</b>		
	<b>THIRD AND FOURTH SEMESTER</b>													
<b>II</b>	ICT 6091	Project Work and Industrial Training							<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>		

\*TAUGHT IN BOTH SEMESTERS AND EVALUATED AND CREDITED IN THE SECOND SEMESTER

\*\*3 Hrs/WEEK WITH A PROVISION FOR MINI PROJECT/ASSIGNMENTS

<b>PROGRAM ELECTIVES</b>		<b>OPEN ELECTIVES</b>	
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>
ICT 5401	Applied Deep Learning	ICT 5301	Applied Game Theory
ICT 5402	Applied Natural Language Processing	ICT 5302	Block Chain Technologies
ICT 5403	Big Data Technologies	ICT 5303	Cyber Security And Cyber Laws
ICT 5404	Edge Computing	ICT 5304	Real Time Systems
ICT 5405	Federated Learning		
ICT 5406	Information Retrieval Systems		
ICT 5408	Machine Learning		
ICT 5409	Semantic Web Technologies		
ICT 5410	Time Series Analysis And Forecasting		