DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY, MIT, MANIPAL M.TECH COMPUTER SCIENCE AND ENGINEERING(CYBERSECURITY)

Course Structure (Applicable to 2025 admission onwards)

Yea r	FIRST SEMESTER						SECOND SEMESTER					
	Sub Code	Subject Name	L	Т	Р	C	Sub Code	Subject Name	L	Т	Р	С
	MAT ****	Mathematical Foundations of Cybersecurity	4	0	0	4	ICT ****	Mobile and Web Application Security	3	0	2	4
	ICT ****	Applied Cryptography	4	0	0	4	ICT ****	Digital Forensics and Incident Response	3	0	2	4
т	ICT ****	Zero Trust Security	3	0	2	4	ICT ****	Elective I	3	0	2	4
	ICT ****	AI for Cybersecurity	3	0	2	4	ICT ****	Elective II	3	0	2	4
	ICT ****	Principles of Secure Coding	3	0	2	4	ICT ****	Elective III	3	0	2	4
	HUM 5101	Research Methodology and Technical Communication	1	0	3	2	***.****	Open Elective	3	0	0	3
	ICT ****	Applied Cryptography and Secure Coding Lab	0	1	3	2	ICT ****	Mobile and Web Application Security Lab	0	0	3	1
		Information Security Mini Project	0	0	3	1		Digital Forensics Mini Project	0	0	3	1
	Total		18	1	15	25	Total		18	0	16	25
	THIRD AND FOURTH SEMESTERS											
Π	ICT 6099 Project Work								0	0	0	25
	Total									0	0	25

Programe Electives

- 1. ICT*** Quantum Cryptography
- 2. ICT*** Threat Intelligence
- 3. ICT*** Cyber Physical Systems Security
- 4. ICT*** Software Defined Networking Security
- 5. ICT*** Mobile and Wireless Security
- 6. ICT*** Blockchain Technology
- 7. ICT*** Ethical hacking
- 8. ICT*** Cloud Security
- 9. ICT*** Malware Analysis and Intrusion Detection (MA & ID)
- 10. ICT*** Security architecture
- 11. ICT*** Secure Network Design
- 12. ICT*** Identity and Access Management

Open Electives

- 1. ICT **** Game Theory and Applications
- 2. ICT **** Real Time Systems
- 3. ICT **** IoT Security