

Master of Technology (M.Tech) in Computer Science & Engineering with specialization in Connected Systems & Intelligence

| | | | Credits | Credit Split Lecture/Lab/Seminar/Project |
|--------------------------------|--------------------------------------|---------------------------------|-------------------|---|
| S1 (University Core) | Digital Access Community Empowerment | One week | 3 | 0-0-0-3 |
| | Digital Experience Laboratory | Full semester (hands-on lab) | 3 | 0-4-0-0 |
| | Design Thinking and Innovation | Full semester | 4 | 3 (Lecture and case study) |
| Total Credits | | | 10 credits | |

| | | Credits | Credit Split Lecture/Lab/Seminar/Project | Level |
|---|--|-------------------------|--|-------|
| S1(Four Core) | AI & Machine Learning | 4 | 3-1-0-0 | 300 |
| | Mathematical Foundations of Computer Science | 4 | 3-0-1-0 | 300 |
| | Data Structures and Algorithms | 4 | 3-1-0-0 | 300 |
| | Advanced Distributed Systems | 4 | 3-1-0-0 | 300 |
| S1 (One Elective) | Wireless Networks and Mobile Computing | 4 | 3-0-0-1 | 300 |
| | Wireless Sensor Networks | 4 | 3-0-0-1 | 300 |
| | Cryptographic Engineering | 4 | 3-1-0-0 | 300 |
| | Quantum Computing & Cryptography | 4 | 3-0-0-1 | 300 |
| | Sensors for Drones and Robotics | 5 | 5-0-0-0 | 300 |
| | Soft Computing | 4 | 3-0-0-1 | 300 |
| | Natural Language Processing | 4 | 3-0-0-1 | 300 |
| S1 Total Credits (minimum) | | 20 | | |
| S2(Core) | Data & Intelligence | 4 | 3-1-0-0 | 300 |
| S2 (Four Electives) Minimum two electives need to be selected from Group A | Group A | | | |
| | Cloud and Edge Computing | 4 | 3-0-0-1 | 300 |
| | Connected Environments and Enabling Technologies | 4 | 1-3-0-0 | 300 |
| | IoT Networks and Endpoint Security | 4 | 2-2-0-0 | 300 |
| | Industrial IoT and Digital Twins | 4 | 3-0-0-1 | 300 |
| | Software Defined Networking | 4 | 3-0-0-1 | 300 |
| | Internet of Drones | 4 | 3-0-0-1 | 300 |
| | Cyber Big Data Analytics | 4 | 3-0-0-1 | 300 |
| | Social Network Analytics and Security | 4 | 3-0-0-1 | 300 |
| | Ubiquitous Computing | 4 | 3-0-0-1 | 300 |
| | Biometric Systems Engineering | 4 | 3-1-0-0 | 300 |
| | Hardware Security | 4 | 3-1-0-0 | 300 |
| | Group B | | | |
| | Deep Learning & Reinforcement Learning | 4 | 3-0-0-1 | 300 |
| | Cognitive Computing | 4 | 3-0-0-1 | 300 |
| | Video Analytics | 4 | 3-0-0-1 | 300 |
| | Human Computer Interaction | 4 | 3-0-0-1 | 300 |
| | Blockchain Technology | 4 | 2-2-0-0 | 300 |
| | Augmented/Virtual Reality | 4 | 3-1-0-0 | 300 |
| S2 Internship | Summer Internship/Team Project | 5 | 0-0-0-5 | 300 |
| S2 Total Credits (minimum) | | 25 | | |
| S3 | Topics in Connected Systems | 20 | 15 (Research) | 400 |
| S3 & S4 | Master Thesis | 30 | 0-0-0-30 | 400 |
| Total Credits (minimum): 10+20⁺+25+20+30 = 105 | | | | |
| Audit Courses (non-credit courses) - NPTEL Courses | | | | |
| Computer Networks and Internet Protocol | | Sensors and Actuators | Speaking Effectively | |
| Cryptography and Network Security | | Python for Data Science | Graph Theory | |
| Stochastic Modeling and the Theory of Queues | | Operating System | The Joy of Computing using Python | |
| Big Data Computing/Algorithms for Big Data | | Data Mining | Innovation, Business Models and Entrepreneurship | |

After graduation: Research Engineer, Doctoral Studies, Software Engineer, Network Engineer, IoT Architect, Information Security Analyst, Consultant, Data Analyst.