



Indian Institute of Information
Technology Sri City (IIIT Sri City)

M.Tech IoT and Autonomous System

Type

Pg Program

Mode

Online

Duration

2 Years

Total fees

₹ 271,000

Indian Institute of Information Technology Sri City (IIIT Sri City)

The Indian Institute of Information Technology Sri City, Chittoor is an Institute of National Importance established through a public-private partnership. Known for its industry-oriented curriculum, research focus and technology-driven learning, the institute prepares professionals to address emerging digital challenges. IIIT Sri City promotes innovation, entrepreneurship and interdisciplinary collaboration to develop globally competent technology leaders.

M.Tech IoT and Autonomous System

Highlights

- ◆ Earn an M.Tech degree in IoT & Autonomous Systems from IIIT Sri City through an online learning format.
- ◆ Build expertise across IoT architecture, cyber-physical systems, wireless communication and autonomous technologies.
- ◆ Explore emerging areas such as 5G/6G, digital twins, Edge AI and intelligent communication systems.
- ◆ Gain practical exposure through simulations, Python programming, IoT development and industry-relevant projects.
- ◆ Participate in campus immersion opportunities and gain IIIT Sri City alumni status upon successful completion.

Learning outcomes

- ◆ Design and implement IoT and autonomous systems using contemporary technologies and platforms.
- ◆ Integrate wireless communication standards and network protocols into connected applications.
- ◆ Develop intelligent and secure autonomous solutions for varied industry use cases.
- ◆ Apply Python, simulation tools and digital-twin concepts to IoT and automation projects.
- ◆ Contribute to advanced projects involving perception, navigation, control and AI-driven decision-making.

Eligibility Criteria

Applicants should have a B.Tech / BE / BS/ M.Tech / MSc (4 semester program) / MCA (4-semester program) / MS Degree (min. 4 semester) / equivalent degree in the relevant discipline with at least 55% marks or 5.5/10 CPI. In the case of the candidate belonging to SC, ST, or Persons with Disability (PwD) category, this is relaxed to 50% or equivalent 5.0 CGPA/CPI

For MCA/MSC passed graduates, the percentage score of MCA/MSC would be considered. For BE/BTech Engineering graduates without PG specialization, the percentage score of the undergraduate degree would be considered. For a post-graduation in the Engineering field of study,

PG score qualification can be considered.

GATE is not mandatory.

Selection process will be scheduled post-counseling & application process, depending on the number of eligible applications as per seat availability for the program. This entire process will be online.

Candidates who do not meet the minimum CGPA or percentage requirement, can still be considered if they provide relevant work experience in the technical field.



Curriculum Overview (continued)

Semester I (27 subjects)

- ◆ Introduction to Internet of Things
- ◆ Fundamentals of IoT and Its Ecosystem
- ◆ Connectivity Technologies in IoT
- ◆ Communication Protocols in IoT
- ◆ Advanced IoT Sub-Modules and Emerging Technologies
- ◆ Arduino-Based IoT Development
- ◆ Raspberry Pi for IoT and Cloud Integration
- ◆ Introduction to Cyber-Physical Systems
- ◆ Examples and Basic Technologies
- ◆ Cyber-Physical System Platform Components
- ◆ Introduction to Robotics
- ◆ Principles of Automated Control Design
- ◆ Automotive Cyber-Physical System Case Studies
- ◆ Digital Twins: Concepts and Applications
- ◆ Introduction to Industry 4.0
- ◆ Digital Twins in Industry 4.0
- ◆ Building Blocks of Digital Twins
- ◆ Digital Shadow and Digital Thread
- ◆ Types and Applications of Digital Twins
- ◆ Communication and AI Integration in Digital Twins
- ◆ Intelligent and Autonomous Systems
- ◆ Introduction to Autonomous Systems
- ◆ Intelligent Systems and Knowledge Processing
- ◆ Wireless Sensor Networks and Communication Technologies
- ◆ Design and Development of Autonomous Systems
- ◆ Case Studies in Intelligent and Autonomous Systems
- ◆ Prediction Algorithms and Integrated Communication Systems



Curriculum Overview (continued)

Semester II (30 subjects)

- ◆ Wireless Communication
- ◆ Introduction to Wireless Communication Systems
- ◆ Cellular Network Strategies and Access Techniques
- ◆ Radio-Wave Propagation and Path-Loss Models
- ◆ Small-Scale Multipath Propagation and Fading
- ◆ Wireless-System Components and Data Transmission
- ◆ Advanced Wireless Technologies
- ◆ Advanced Wireless Communications and IoT Protocols
- ◆ MIMO and Massive MIMO
- ◆ OFDM and Non-Orthogonal Multiple Access
- ◆ Multihop Communication
- ◆ Ultra-Wideband Communication
- ◆ Cognitive Radio and Software-Defined Radio
- ◆ Self-Organising Networks
- ◆ Transmitter–Receiver Chain Prototype
- ◆ B4G
- ◆ 5G and Advanced Communication Systems
- ◆ System Architectures
- ◆ Communication Protocols
- ◆ Applications
- ◆ Advanced Communication Paradigms
- ◆ Smart and Intelligent Communication Systems
- ◆ Security and Privacy Engineering
- ◆ Introduction to Cybersecurity and Network Security
- ◆ Foundations of Cybersecurity
- ◆ Security Layers
- ◆ Data Security and Access Control
- ◆ Network Security
- ◆ Operating-System Security
- ◆ Incident Response



Curriculum Overview (continued)

Semester III (15 subjects)

- ◆ Technologies for IoT and Autonomous Systems
- ◆ Control Systems for Autonomous Systems
- ◆ Sensing and Perception I
- ◆ Sensing and Perception II
- ◆ Navigation
- ◆ Software-Defined Networking in IoT
- ◆ Cloud Computing and Service Models for IoT
- ◆ Networks
- ◆ Data Science and Python Programming
- ◆ Introduction to Python
- ◆ Introduction to NumPy and Two-Dimensional Plotting
- ◆ Scientific Computing Using SciPy
- ◆ Time-Series Analysis and Data Manipulation with Pandas
- ◆ Data Access and Visualisation
- ◆ Introduction to Machine Learning with Scikit-Learn

Semester IV (7 subjects)

- ◆ Applications of Autonomous Systems: Aerial and Underwater Autonomous Vehicles
- ◆ Introduction to Python
- ◆ Sensors for Aerial and Underwater Vehicles
- ◆ Motion Planning and Control Strategies
- ◆ AI-Driven Decision-Making for Autonomous Vehicles
- ◆ Design and Architecture of Autonomous Vehicles
- ◆ Applications and Future of Autonomous Systems

Fee Structure

Fee heads	Year 1	Year 2	Total
Program Fee	₹ 132,000	₹ 132,000	₹ 264,000
Application Fee	₹ 5,000	—	₹ 5,000
Administration Fee	₹ 2,000	—	₹ 2,000
Total	₹ 139,000	₹ 132,000	₹ 271,000