

MASTER OF SCIENCE IN INFORMATION TECHNOLOGY (MSIT)

The Curriculum

Consists of **eight** (8) core (methodological & analytical) units, and **five** (5) required (leadership) units that must be taken and passed by all students, irrespective of their chosen area of specialization. All candidates must take and pass **five** (5) specialisation course units in their chosen areas.

Areas of Specialization*

- Software Engineering
- Information Systems Management
- Artificial Intelligence
- Systems Security and Audit
- Networking and Communications

* A specialization is offered subject to a quorum of at least 10 students

Core Course Units

Course Code	Course Title
MIT 8101	Advanced Information Technology Concepts
MIT 8102	Advanced Distributed Systems
MIT 8103	Artificial Intelligence for Decision Support
MIT 8104	Strategic Information Systems
MIT 8105	Information Systems Security & Control
MIT 8106	Software Modelling
MIT 8107	Advanced Database Systems
MIT 8108	Research Methodology
MIT 8201	Strategic Management
MIT 8202	Leadership and Project Management
MIT 8203	Communications Management
MIT 8204	Entrepreneurship & Small Business Management
MIT 8205	Business Ethics and Governance

SPECIALIZATION COURSES

SOFTWARE ENGINEERING

Course Code	Course Title
MIT 8311	Software Engineering Management
MIT 8312	Software Measurement and Testing

MIT 8313	Formal Methods for Software Development
MIT 8314	Software Development for Real-time Applications
MIT 8315	Component Based Software Development

INFORMATION SYSTEMS MANAGEMENT

Course Code Course Title

MIT 8321	Managerial Decision-Making
MIT 8322	Managing Quality in Information Systems
MIT 8323	Economics of Information Technology
MIT 8324	Managerial Applications of Information Technology
MIT 8325	Advanced Information Systems Audit

ARTIFICIAL INTELLIGENCE

Course Code	Course Title
MIT 8331	Natural Language Interfaces in Artificial Intelligence
MIT 8332	Robotics
MIT 8333	Machine Learning
MIT 8334	Knowledge Based Systems
MIT 8335	Artificial Intelligence Programming

SYSTEMS SECURITY AND AUDIT

Course Code	Course Title
MIT 8341	Enterprise Systems Security
MIT 8342	Cryptography & Information Security
MIT 8343	Advanced Information Systems Audit
MIT 8344	Information Systems Security Design
MIT 8345	Internet Technologies & Security

NETWORKING & COMMUNICATIONS

Course Code	Course Title
MIT 8351	Enterprise Networking Systems
MIT 8352	Network Management and Administration
MIT 8353	Wireless Computing
MIT 8354	Architectures for Networking and Communication
MIT 8355	Performance Evaluation of Computer Networks

PROJECT

Course Code	Course Title
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MIT 8400

INFORMATION SYSTEMS PROJECT