

## **Master of Science in Information Technology**

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The Master of Science in Information Technology program is designed to equip professionals with knowledge and skills needed to become organizational and societal leaders who will act as agents of change through the planning, development, and implementation of technology-based solutions.

In the course of the program, students develop a rigorous understanding of organizational (business, government, as well as other organizational forms) along with deep technical skills. In this way, they are trained to be leaders who can harness ICT's transformational role and bridge issues in the domains of both organizations and technology.

### **Admission Requirements**

The program accepts applicants who have a relevant Bachelor's degree (Computer Science or ITE allied fields) and one year of IT-related work experience or two years relevant work experience. Other Bachelor's degrees may be considered on a case-to-case basis.

Note:

- Applicants may be required to take remedial courses depending on their degree or courses they have taken up during their Bachelor's degree.
- Since the program will be administered in English, students will be expected to demonstrate a strong grasp of the language.

### **Degree Requirements**

The Master of Science in Information Technology is obtained primarily through supervised research. It is awarded upon fulfillment of the following requirements:

- completion of all academic courses
- submission of a thesis based on an independent, original research
- successful defense of the thesis
- fulfillment of residency and other University requirements

### **Academic Program Components**

#### *Remedial Courses (18 units)*

- Project Management and IS Development
- IT Resource Management
- Basics of Database
- Basic Programming
- Advanced Programming
- Introduction to Software Engineering

#### *Foundation Courses (12 units)*

- Programming Languages and Advanced Databases
- Network and Data Communication and Computer Architecture
- Economics of Technology management
- IS Theory and Practice

#### *Specialization Courses (total of 18 units where the 12 units will be dependent on the chosen specialization)*

##### *Introductory Courses (6 units)*

- Organizational Improvement and Change Management
- Methods of Research

##### *ICT4D/e-Governance Specialization (12 units)*

- IT Ethics and Leadership

- Introduction to e-Government
- Development Informatics
- Development Economics and ICT Policies

Business Innovation and Organizational Productivity Specialization *(12 units)*

- IT Ethics and Leadership
- Innovations and Technology Development
- Work Transformation and Organizational Productivity
- Trends in ICT and Business-Organizational Productivity

*Thesis (6 units)*

This requirement allows students to demonstrate mastery of both a specific topic and the relation of this topic to a broader area of inquiry or interest. This requirement serves as a summative expression of what the graduate student has learned in the program.