Management of Information Technology

8 Elective Hours

The MIT specialization seeks to help students understand how information systems impact the performance of, and add value to organizations; and analyze and design computer-based information systems based on a thorough comprehension of business and technology theory and practice. This specialization is based on two guiding principles:

- Effective MIT knowledge requires a sound foundation of business and management knowledge. For example, designing, building and implementing value-adding information systems requires that project team members understand business strategy, industry structures, organizational behavior, and relevant functional knowledge domains (i.e., accounting, finance, marketing, production/operations, etc).

- Effective MIT knowledge requires a strong base of theory and principles in programming, database, and analysis/design; a working knowledge of a broad range of information technologies; and, hands-on experience in applying these technical skills to problems in actual organizations.

**Required Courses:** (2 - 4 hours)

**MIT 5612 | Database Design and Administration** (co-requisite/prerequisite: MIT 5602)

This course is concerned with the design and governance of organizational data and its use. In this module, students will learn about the roles of database designers and administrators. Along the way, students will learn about the modeling techniques used by database designers to develop organizational databases and the standard language used to interface with databases.

AND/OR

**MIT 5772 | Principles of Data Warehousing** (co-requisite/prerequisite MIT 5602)

Entrepreneurship is about the identification and enactment of entrepreneurial opportunities. This class is about learning how to pursue entrepreneurial opportunity, particularly as it relates to starting a new venture. Thus, this course focuses on the development of entrepreneurial opportunities and determining the feasibility of these opportunities in today's business environment. The mastery of concepts covered in this course will lead to an initial evaluation of new venture ideas and provide a foundation for subsequent courses in the major. This course represents an early step in preparing students to start and manage an entrepreneurial
venture. This course will also help students develop a comprehensive strategy and plan for launching and growing a new business.

AND

**MIT 5732 | Managing Business Intelligence** (prerequisite MIT 5602 and MIT 5612 or MIT 5772)

This course will adopt a managerial perspective to recognizing the role of Business Intelligence and provide practical hands-on experience. Course sessions will help students understand how organizations could develop strategies to discover patterns in data and use this to compete in the global marketplace.

**And any of the following or ANY MIT 5000 level course:** (2 - 4 hours)

**MIT 5652 | Knowledge Management**

Study of knowledge management from a variety of perspectives – historical, social, technical, managerial. Review of problems, opportunities, and events providing the impetus for focus on knowledge management. Focus will be on the 3 critical elements in knowledge management -people, processes, and technology.

**MIT 5662 | Project Management** (prerequisite MIT 5602)

Focus on managing projects, including their implementation within an organization. Planning, organizing, staffing and controlling projects require traditional management skills, an understanding of quality assurance techniques, and an appreciation of the unique challenges of managing projects.

**MIT 5682 | Business Data Analysis**

Surveys analysis tools available in Excel relevant to business decision-making. The objective of the course is to be aware and comfortable with analytical techniques used for knowledge discovery, and to understand the power and potential of these tools in business settings.

**MIT 5692 | E-Business Architecture** (prerequisite MIT 5602 or MIT 5622)

Introduces students to enterprise systems and provides an overview of the managerial and technical issues in planning, designing, implementing, and extending enterprise system and technologies. Focus of the course is managerial with some technical content and several hand-on exercises involving enterprise software from the industry leader SAP.