

COURSE DESCRIPTIONS OF DEPARTMENTAL SPECIALIZATION COURSES (MBA)

MANAGEMENT INFORMATION SYSTEMS (MIS)

MIS 6001: Management Information Systems

Pre-requisite: MBA 5104

This course introduces concepts of information systems as used in the management of organizations. It diagnoses and identifies different management hierarchies to develop information and control systems. Information models of various types are introduced, from the data processing environment to decision support to knowledge-based systems.

MIS 6002: System Analysis and Design

Pre-requisite: MBA 5104

This course focuses on the systems development life cycle of application systems, emphasizing structured design techniques. Each development phase, from information requirements analysis through post-audit, is examined.

MIS 6003: Database Management Systems

Pre-requisite: MBA 5104

This course encompasses the fundamentals of database management systems, including principles of database design and development and the role of database systems within application information systems.

MIS 6004: Data Warehouse and Data Mining

Pre-requisite: MBA 5104

This course offers a comprehensive examination of the methodologies and principles underlying the development of data warehouses and the execution of data analysis via data mining, data quality, and preprocessing techniques. It covers the conceptualization and construction of data warehouses and the study and implementation of algorithms used in classification, clustering, and association rule analysis. Additionally, the course explores the practical application of software in the context of data analysis.

MIS 6005: Enterprise Resource Planning

Pre-requisite: MBA 5104

This course aims to develop integrative skills in process management, re-engineer processes, and implement ERP systems. Notably, the course equips students with various open-source ERP software skills. It helps organizations conduct their business processes, involving functions such as materials management, production, finance, logistics, sales, distribution, human resources, and customer service.

MIS 6006: Contemporary Development in MIS

Pre-requisite: MBA 5104

This course includes system construction, system maintenance, artificial intelligence, expert systems, enterprise integration, and international issues in MIS, Knowledge Management (KM), Knowledge Discovery from Database (KDD), and other contemporary topics.

MIS 6007: Business Intelligence and Decision Support System

Pre-requisite: MBA 5104

This course examines professional and managerial people's decision-making process and workgroup activity, the tools and techniques available in information technology to support these processes, and when they can be advantageously used. Many executive support systems do not achieve their intended objectives because of the cultural and organizational issues involved in using Information Technology tools and techniques. The course has a technical component in which students gain practical knowledge and experience in decision support and business intelligence systems using BI software.

MIS 6008: Knowledge Management

Pre-requisite: MBA 5104

This course focuses on how Knowledge Management (KM) and a range of Information Technologies and analysis techniques are used to support KM initiatives in organizations. Technologies likely to be considered are collaborative and social media tools, corporate knowledge directories, data warehouses

and other repositories of organizational memory, and business intelligence, including Data Mining, Process Automation, Workflow, and Document Management. The emphasis is on high-level decision-making, the rationale of technology-based initiatives, and their impact on organizational knowledge and its use. This course supports course-level objectives by allowing students to develop analytical skills to understand the complexity of real-world KM work in organizations. It promotes innovative thinking around deploying existing and emerging information technologies for KM. The subject contributes to developing independent critical inquiry, analysis, and reflection.

MIS 6009: Business Programming Language

Pre-requisite: MBA5104

This course provides students with knowledge about programming business problems. Students are exposed to relevant but popular computer languages they might encounter in real life. Students are taught the preliminary programming concepts. Various issues are presented along with different programming language choices. Students are exposed to multiple problems and given examples of solutions.

MIS 6010: Network Resource Management

Pre-requisite: MBA 5104

The main object of this course is to understand the primary computer network and different network operating systems. To provide students with the necessary understanding of computer networks essential to system and network design and network management. Topics include what a network is and Why, Communication Models such as OSI and TCP/IP, Types of Networks, Network service and software, Network architecture, Signal and Data Communication, Network media, Network devices, DHCP, DNS, Network protocol, IP addressing and subnetting, Name resolution, IP routing, Network Security and Operating systems are.

MIS 6011: Blockchain Technologies in Business

Pre-requisite: MBA 5312

This course gives students a basic understanding of blockchain technology, its history, and how it relates to the new digital economy. Covering essential areas and using cases regarding blockchain technology, how it's disrupting domains such as Fintech, Digital government activities, eHealth, E-procurement, Smart Cities, etc., and how to use blockchain technology to create new business opportunities. The students will learn to analyze and quantify blockchain's changes in various industries, understanding blockchain technology, its challenges, and limitations.