MUC UNIVERSITY
COLLEGE OF TECHNOLOGY

DIPLOMA PROGRAM

Management Information Systems Plan				
Semester 1	**Course 1** Managing Information Systems and Information Technology	**Course 2** Basics of Programming	**Course 3** Database Management Systems	
Semester 2	**Course 1** Computer Networks	**Course 2** Data Analysis	**Course 3** Web Programming	
Semester 3	**Course 1** Customer Relationship Management	**Course 2** Supply Chain Management	**Course 3** Enterprise Resource Planning (E- business application)	**Course 4** System Analysis and Design

I. Program Description:

Management Information Systems Diploma is the study of people and technology and how they relate. MIS uses data to provide businesses with the information they need to make decisions that improve a company's performance. MIS work involves data collection using technology and various reports to analyze business trends and future opportunities. Management Information Systems (MIS) is a challenging field of study focused on integrating computer-based information technology solutions and business processes to meet the information needs of businesses and other enterprises.

II. What can I work with MIS?

Programmer.

Systems analyst.

Database manager.

Computer specialist.

Network administrator.

Software developer.

Project lead.

Information technology consultant.

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III. Curriculum:

Semester 1:

	Course 1	Course 2	Course 3
Semester 1	**Managing Information Systems**	**Basics of Programming**	**Database Management Systems**

Course 1 Description (Managing Information Systems)

This course provides the background necessary for understanding the role of information systems in organizations and for using computer tools and technology in solving business problems. Topics include organizational and technical foundations of information systems, theory of information systems design, fundamental database principles, network systems, e-commerce and supply chain systems, information network security management, and meeting global challenges. Students also gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology.

Course 2 Description (Basics of Programming)

The course assumes no knowledge in computer programming. It introduces the students to the basic concepts and techniques of developing programs for problem solving. Object-oriented programming methodology is used throughout the course to teach the fundamentals of programming. In this course, students learn how to apply an integrated program development tool to design, implement, test, debug, and document programs. It establishes the foundation on which students are able to develop application programs in different high-level programming languages such as Java and C++.

Course 3 Description (Database Management Systems)

The emerging trend of organizations and business decision making is based on data-driven decision-making. In fact, database systems are central to most organizations' information systems strategies. At any organizational level, users are expected to face frequent contact with and use of database systems. Therefore, skills in using such systems, which include understanding the capabilities and limitations of the systems, identifying whether to access data directly or through technical specialists and knowing how to retrieve and utilize the information effectively became essential in any industry vertical. Also, skills in designing new systems and related applications are distinct advantage and necessity today. The Relational Database Management System (RDBMS) is one type of database systems, which is widely used and is the primary focus of this course.

Semester 2:

Semester 2	Course 1 Computer Networks	Course 2 Data Analysis	Course 3 Web Programming

Course 1 Description (Computer Networks)

This course introduces the student to *Computer Networks*, including the different equipment and protocols of local and wide area networks. The course will discuss the network topologies and technologies using real-world examples and practical labs. Furthermore, the students will practice networking planning, deployment, configuration and troubleshooting using simulator software. At the end of the course, the students will be able to pass the Microsoft's Network Fundamentals MTA exam, which will be a benefit.

Course 2 Description (Data Analysis)

This course introduces the process of systematically applying statistical and/or logical techniques to describe and illustrate, condense and recap, and evaluate data. It is designed to teach students the foundational skills needed to collect, prepare, analyze, and present data. Courses cover basic programming skills in languages like Python, R, and SQL and tools such as Microsoft Excel and SPSS.

Course 3 Description (Web Programming)

This course provides an introduction to web development by way of the essential language and runtime environment that powers modern web interfaces. This is an entry-level programming course, and no prior programming experience is assumed. Exposure to basic HTML5 and CSS3 will be helpful, but not required. This course will require students to design and develop standards-based client-server interfaces for Web applications using latest versions of HTML, CSS, jQuery, Bootstrap and Php.

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Semester 3:

Semester 3	Course 1 Customer Relationship Management	Course 2 Supply Chain Management	Course 3 ERP Applications in E-Business	Course 4 System Analysis and Design

Course 1 Description (Customer Relationship Management)

Customer Relationship Management (CRM) is one of the most important components for sustenance and growth of an organization. With the advancement of software technologies, significant progress has been made in designing and managing CRM systems. These efforts envisage facilitating better customer interactions and greater understanding about customers; thus helps an organization build competitive advantages. This course plans to impart a sound introduction to CRM, a comprehensive understanding of the processes involved, strong understanding of software components in different CRM systems, and practical applications of CRM in different sectors.

Course 2 Description (Supply Chain Management)

This course allows students to understand both the components of supply chain management and its role within the function and across other functions in an enterprise. The objective of supply chain management is to create value, build a competitive infrastructure, leverage worldwide logistics, synchronize supply with demand, and measure performance globally. Logistics is part of the supply chain, which deals with storage and distribution of goods and services, in the right quantity, right condition, at the right time, and in the right place. The goal of this course is to provide a high-level overview of the supply chain function and related concepts and to provide an understanding of the activities involved. This course will also provide a basic understanding of the analytical tools and applications used in SCM. The course will introduce students to some challenges in managing global supply chains.

Course 3 Description (ERP (Applications in E-Business))

This course offers students an in-depth overview of enterprise systems, their evolution, risks and benefits, fundamental technology, and issues to be considered in the planning, design, and implementation of cross functional integrated ERP systems. Students will be acquainted with ERP software solutions, small, medium, and large enterprise vendor solutions, Business Process Reengineering, Business Engineering and best Business practices, and Business Process Management. Strong emphasis is put on understanding the roles of ERP modules including, Accounting and Finance, Materials and Production Management, Sales and Marketing, and Customer Relationship Management.

The course also introduces students to various aspects and models for e-business. the development of e-business, business models, the job market, work patterns, skills required and continuous learning, privacy and security issues, information and knowledge.

Course 4 Description (System Analysis and Design)

The objective of this course is to provide adequate understanding of systems concept, system analysis, and systems design, which would help them in having efficient and workable information system for management. To provide an understanding the role of Hardware and Software for realizing organizational Objectives and automation. To provide an understanding of the role of systems analyst and software development firms for their role in distributing meaningful ERP modules and other business intelligent system. To provide an understanding of the role of system analysis and design within various systems development stages. To develop an awareness of the different approaches that might be taken to systems design. To understand the activities of the management and systems analyst, and in the overall development of system. To develop an understanding of Testing software and complying the various software quality parameters.

IV. Contact:

Mrs. Mirna Takkoush
Registrar Coordinator
mirna.takkoush@muc.edu.lb
TEL: 00961-1-555896 ext 109

Mrs. Sohad Hammoud
Admission Officer
sohad.hammoud@muc.edu.lb
Mobile: 96171570550