Course number	Course name
02051111	**Management Information System**

This course deals with management information systems in a comprehensive manner by identifying the bases and principles upon which information systems are based. And the types of different computer-based systems and their applications, as well as to identify the functions of information systems, To view the role of management information systems in administrative functions, and to introduce the concept of databases, their importance and types, as well as the scientific basis adopted in the design, analysis and application of information systems

02051231	**Fundamentals of Computer Technology**

This course is an introduction to the fundamental and powerful roles that information technologies play in the modern global business environment, the strategic role of information systems in modern organizations. Introduce the concepts of numbering systems and converting between them and mathematical operations in binary system. Also show the benefits of computing technologies such as telecommunications and computer networks, the internet, intranets, databases, and websites .

02052134	**Introduction to programming language**

This course is introductory programming course. You will learn basic concepts of programming using C++. This course will introduce the essential ideas of C++ programming and the breadth of discipline of computing. This under-graduate level course commences with the basic constructs and syntax of the C++ language. We will study fundamentals of language in details.

02051232	**Digital and logical Design**

The course of Computer and Logic Design will introduce the concepts of numbering systems and converting between them and mathematical operations in binary system, and principles of Boolean algebra and logic gates, truth tables, Boolean algebra rules, simplification of Boolean functions.

02052121	**Database Systems**

This course covers fundamentals of database architecture, database management systems, and database systems. Principles and methodologies of database design, and techniques for database application development.
   To give the students the main concepts of database, design the database, database models, and normalization techniques, query languages, object oriented database, query optimization and database and the web. further the students have to practice and write some applications regarding the database.

02052235	**Advanced Programming Language**

This course will cover basic concepts of programming using C++ (essential ideas of C++ programming and control statement and few advanced features which includes arrays, functions), In this

course the student will learn the art of the object-oriented programming using C++ Programming Language after having a background in the procedural paradigm that was introduced in the module "Introduction to Programming "

Program design will be addressed by the use of a number of Lab work and assignments in which complete programs will be developed.

02052236	Web Pages Design

This course will cover the fundamental concepts of the Internet and World Wide Web, including how the Internet works, protocols and services, browsing and searching. Students will design and create web pages using HTML language and adding graphic images for web pages. Using CSS for page format (font formatting: size, color, type).

02054143	Communications and Networks Systems

This course is an introduction to the design and analysis of computer networks and distributed systems. The course covers a breadth of topics including computer communications architecture and protocols, application-level protocols, local and wide area networks, IP networks, bridging and routing, network management, and current topics.

02053123	Database Management System

This course covers database management systems and database systems definition. How the students design the database, and how to used structure query languages(SQL), DDL, DML, and DCL. database models, and normalization techniques

02054114	Advanced Information Systems

The purpose of this course is to introduce advanced concepts of management information systems, to identify and different types of computer-based information systems, the importance of information resources in the current era as a strategic resource that achieves a competitive advantage for business organizations, a course in the competitive business environment, and to identify the types of functional information systems and their functions, The impact of the Internet and information technology on business organizations, and the administrative challenges facing organizations to build and use information systems in a competitive business environment.

02053124	Knowledge Management

The course aims to introduce students to the concepts of knowledge management, operations and development of systems and their relationship to information systems and information technology and to identify management applications knowledge to solve problems and develop organizations and Orientals future, the concept of the knowledge society and knowledge economy and characteristics cosmic mind and the knowledge economy.

02053241	E-business

This course deals with the concept of e-business and how it is managed. It focuses on its applications in various fields of business (commercial, government, education, health services) to name a few, in addition to focusing on the problems and risks that exist in the fast changing world of e-business.

02052212	Enterprise resource planning

This course deals with the company's resources planning system as an integrated information system for organizations and the need for it in the organizations and factors of success and failure, strategies followed in its design and companies equipped with it and the functional areas in which it is applied, And the stages of the design.

02054127	Information system Security

This course deals with the importance of information security in various fields and clarifies the importance of information security in the institutions. It focuses on the threats facing information security, how to measure the security of information, the mechanism of enhancing information security, understanding the concept of governance in information security and how to formulate information security strategy and address the difference between physical security and information security. In the enterprise and information and communication technology security

02053113	Project Management Systems

This course covers the concept of project management, project definition, project team nature, role of project manager, methods related to project formation, review, acceptance and funding, project life cycle, business structure classification, Gantt charts, network fees, scheduling methods, resource allocation and evaluation, value Acquired, the role of emergency management in planning.

02053226	Data Mining

The course introduces principles and techniques of data mining. It emphasizes the advantages and disadvantages of using these methods in real world systems, and provides hands-on experience. Topics include: data mining using Decision-Tree based classifiers, Association-Rule mining, Clustering methods, Neural Networks, Statistical methods (Probability, Maximum Likelihood, EM algorithm, Bayesian methods, Markov and Hidden Markov methods, Cross-Validation, Regression), Visual methods, Text Mining, Web Mining.

02054228	Systems analysis and design

This course is designed to explain the System analysis and design concept , stages of the management information systems development cycle, analysis and design tools, types and characteristics of management information systems, control of various information systems in the organization, analysis and design of databases and communication networks.

02052133	Computer Application in Business

This course is designed to teach the new and experienced user alike how to use the many features of MS Office to create documents, publications, and complete tasks that require the use of a Microsoft's Office package. You'll start out learning the very basics of Microsoft's Office package using instructions and screenshots, then progress into intermediate and advanced features and techniques so that you can get the most out of the popular program. And how Microsoft Office package can help managers in different level in organization.

02052101	Strategic Information Systems

This course is to familiarize students with the importance of strategic management, strategic management processes and strategic information systems planning. It also provides explanation of the concept of strategic information systems planning, the concept of competitive advantage, the need of competitiveness, competitive strategy, in addition to clarifying the concept of strategic information systems and its relation with e-business, as well as the relationship of strategic information systems to knowledge management.

02052222	Decision Support Systems

This course is to familiarize students with the concept of the System in general, the importance of decision support systems, stages of decision making process and its concept and characteristics, in addition to introduction to the various concepts associated with decision making process; such as data, information and knowledge. The world is divided on the basis of who knows and who does not, not who owns and who does not. The information and knowledge has become the central of advancement. It also aims to introduce students to the problems and difficulties facing the decision-making process and the components of collective decision support systems as well as the forms of decision making.

02052202	Operations Research Application

This course will identify the concept of operations research and the date of its inception and how to benefit from it. In addition, we will identify how to create models of operations research and types, as well as to learn about linear programming and the methods used in them such as graph, algebraic method and simplex, and how to solve distribution problems such as transportation and assignment, The analysis of times in Burt, and other models.

02054142	Multimedia Systems

This course will develop the skills required for improved productivity in producing and editing electronic communications and professional business presentations incorporating multimedia. Students will create, format, illustrate, design and print business presentations and utilize communication software applications. Students will work with various software applications including Macromedia and Microsoft products.

02053225	Artificial Intelligence

This course is focus on the design of computer systems that exhibit traits we normally associate with intelligence in human behavior, such as the ability to understand natural language, to reason about the visual environment, and to solve complex problems.

This course aims to present the basic representation and reasoning paradigms used in AI in both theory and practice with careful attention to the underlying principles of logic, search, and probability. It is also designed to show students practical examples of the use of AI in applications and to encourage further reading.

02054251	Practical Training

The student is subject to field training in the activity of information systems approved by the head of the department, in a company, factory or government or private entity, and for eight weeks under the supervision of a faculty member.

02053144	E-Commerce

This course is designed to teach What is e-commerce and how it is managed. The course also deals with electronic business and the difference between it and e-commerce. And describe multi-topics in e-commerce. This course focuses on basic business aspects, requirements, conditions and constraints of e-commerce.
Uses of technological aspects in the fields of government, education and health services to name a few.

The main characteristics, opportunities and constraints of this type of business will be explored.

Students will also explore the many problems and risks in the world of e-commerce and the speed of change.

02053252	Graduation Project

This course aims to introduce students and train them in the scientific methods and procedures required to carry out scientific research, starting with identifying the problem, formulating research hypotheses, testing them and completing the results and recommendations. And clarifies the concepts and ideas associated with the process of scientific research and scientific steps necessary for the behavior of the researcher and the scientific research plan to reach the results and task the student to write research on the subject of management information systems.

02053115	Electronic Office Management Systems

This course is to familiarize students with the concept of the Office in General and the concept of office automation in particular, the importance of office automation, types of automated offices, its constituent elements, benefits of office automation, constraints of its application, in addition to the important steps involved in the application of office automation. This Course is also designed to familiarize students with the types of input devices, concept of a word processor, database and introduce students to the importance of the computer and internet evolution and its relationship with the Office Automation. It also aims to introduce students to the relationship between office automation and human capital.