Faculty of Business

Department of Management Information System

Study Plan of the Bachelor's Degree

In: Management Information System

Academic Year: 2017 / 2018

Vision of the Department:

Building distinguished and scientific competencies in the fields and applications of management information systems.

Mission of the Department:

Preparing professional and innovative competencies in the field of management information systems.

Objectives of the Department:

1. Preparing qualified cadres capable of applying the appropriate management concepts and principles of developing and operating information systems.
2. Fostering thinking skills, personal skills, concepts of organization, and ethics in the process of developing information systems.
3. Enriching students' standards in applying technical concepts of information technology.
4. Honing students' standards in understanding security concepts and protecting data.
5. Encouraging research and cognitive capacities geared towards strengthening information systems related to business organization.
6. Enhancing alumni abilities to apply analytical systems, design, enterprise, business intelligence and concepts related to project and risk management.

Intended Learning Outcomes (ILOs):

The MIS curriculum is designed and the teaching methods used so that the graduate student can acquire the following attitudes and skills:

Knowledge Skills:

1. Ability to acquire knowledge and identify its sources.
2. Knowledge of the security of information systems.
3. Knowledge of common applications of information management systems, such as decision support systems, accounting systems, and systems
Financial, and production systems.
4. Knowledge of common computer information systems, such as information retrieval systems, Internet applications, E-commerce, e-government, artificial intelligence, and expert systems.

Cognitive Skills:

1. The ability to sort information and determine what is necessary in view of its validity and relevance.

2. Ability to understand the concepts of programming languages and data structures.

3. Understand how technology is used to serve the community.

4. The ability to employ information to solve the target problem, or to make the necessary decision.

Interpersonal Skills:

1. Ability to obtain the necessary information and deal with the individuals who own it.

2. The ability to store, maintain, update, maintain and retrieve information.

3. Possessing effective professional communication skills.

4. Ability to use modern tools in computer information systems.

5. The ability to develop appropriate computer software that contributes to the alleviation of traditional writing work, and saves time, effort and cost in accomplishing tasks.

6. Ability to build e-commerce sites.

Framework

Framework of the Bachelor's Degree in Management Information System (132   Cr. Hrs.)

Sequence	Classification	Credit Hours	Percent %
1st	University Requirements	27	20%
2nd	Faculty Requirements	24	18%
3rd	Department Requirements	69	52%
4th	Ancillary Courses	12	10%
Total		132	%100

Course Numbering

0	1	1	1				5	2

Sequence	Course Level	Cognitive Domain	Dept. Code	Faculty Code

Cognitive Domains

Number	Cognitive Domain	Credit Hours
0	Programming languages and their applications in the field of business	12
1	Data management and analysis and system design	15
2	Electronic Business Systems and Multimedia	9
3	Business Information Systems and Applications	12
4	Administrative and Financial Sciences	15

1. University Requirements: (27 Credit Hours)

A. Compulsory Requirements: (18 Credit Hours)

Course No.	Course Title	Cr. Hr.
55011101	Military sciences	3
55011102	Arabic language (1)	3
55011103	English Language (1)	3
55011204	Life Skills	3
55011205	Fundamentals and Cognitive Skills	3
55011306	Entrepreneurship and Innovation	3
55011307	Culture and Behavior of University	3
55011108	Arabic language Prerequisite	3
55011109	English Prerequisite	3
55011110	Follow-Up Computer Skills	3
Total		**18**

B. Elective Requirements: (9 Credit Hours) from the following list:

Course No.	Course Title	Cr. Hr.	Prerequisite
55021101	Arabic Language (2)	3	55011101
55021102	English Language (2)	3	55011102
55021203	Principles of Psychology	3	-
55021204	Human Rights	3	-
55021305	Introduction to Arts	3	-
55031101	Islamic Culture	3	-
55031102	Islamic Arab Civilization	3	-
55031203	History of Jordan and Palestine	3	-
55031204	Management of our Life	3	-
55031305	Introduction to E-Commerce	3	-
55031306	Principles of Law	3	-
55041101	Health of Individuals and Society	3	-
55041102	Information Technology and Problem	3	-

Course No.	Course Title	Cr. hr.	Prerequisite
	Solving		
55041203	Environment and Society	3	-
55041204	Food and Health	3	-
55041205	Economics and Agriculture	3	-
55041306	Vocational Safety	3	-
55041307	Communications and the Internet	3	-
Total		**9**	

2. Faculty Requirements: (24 Credit Hours)

A. Compulsory Requirements: (24 Credit Hours)

Course No.	Course Title	Cr. hr.	Theoretical	Practical	Prerequisite
21011101	Fundamentals of Management	3	-	-	-
22011101	Accounting Principles (1)	3	-	-	-
23051101	Micro-economic Principles Marketing Principles	3	-	-	-
21011101	Principles of Marketing	3	-	-	-
24011101	Principles of Financial management	3	-	-	-
23011101	Principles of Insurance (1)	3	-	-	-
25011101	Fundamentals of Information systems	3	-	-	-
25051102	Principles of Statistics	3	-	-	-
Total		**24**			

B. Elective Requirements: (……. Credit Hours)

Course No.	Course Title	Cr. hr.	Theoretical	Practical	Prerequisite
	There is no				
Total					

3. Department Requirements (69 Credit Hours)

A. Compulsory Requirements: (60 Credit Hours)

Course No.	Course Title	Cr. hr.	Theoretical	Practical	Prerequisite
42011107	Introduction to Programming ((C ++	3	-	-	-----------
42011199	Laboratory Introduction to Programming	0	-	-	-----------
25011202	Advanced Management Information Systems	3	-	-	25011101
25022102	Analysis and Design of Information Systems	3	-	-	42011107
25044101	Decision Support Systems	3	-	-	25023104
25012208	Introduction to Software Engineering	3	-	-	25022102
42042201	Databases	3	-	-	25022102
25012103	Application Programming in Administration	3	-	-	42011107
25032201	Networking and Communications Systems for Business	3	-	-	25011202
25023104	Applications in Databases	3	-	-	42042201
42053104	Multimedia	3	-	-	-----------
25042105	Technological Change Management	3	-	-	25011101
25023101	Health Information Systems	3	-	-	42042201
25033102	E-Business	3	-	-	25032201
25043102	Knowledge Management Systems	3	-	-	25011202
25033203	Information Security Systems	3	-	-	25032201
25044203	Expert Systems	3	-	-	25044101
25024103	Business Intelligence	3	-	-	25022102
25034104	Especial topics in Information Systems	3	-	-	25022102
25014205	Project in Information Systems Management	3	-	-	At least 90 CH

Course No.	Course Title	Cr. hr.	Theoretical	Practical	Prerequisite
25044204	Project Management Information Systems	3	-	-	25023104
Total		60			

B. **Elective Requirements:** (9 Credit Hours)

Course No.	Course Title	Cr. hr.	Theoretical	Practical	Prerequisite
25042106	Communication and Writing Skills	3	-	-	24022101
25012106	Computer Applications in Management	3	-	-	24012104
42023107	Methods of Simulation and Modeling	3	-	-	24011101
25013104	Strategic Information Systems	3	-	-	24022101
42043214	Websites Design	3	-	-	24011101
25033205	Supply chain in Management Information Systems	3	-	-	24011101
25034106	Geographic Information Systems	3	-	-	24033101
25054103	Electronic Customer Relationship Management	3	-	-	24011101
25044207	Contemporary Issues in Management Information Systems	3	-	-	24011101
25014207	Field Training	3	-	-	24011101
42042209	E- government	3	-	-	24011101
Total		**15**			

4. **Ancillary Courses** (12 Credit Hours):

Course No.	Course Title	Cr. hr.	Theoretical	Practical	Prerequisite
21022101	Business Mathematics	3	-	-	-----------
21051201	Commercial legislation	3	-	-	-----------
21022205	Total Quality Management	3	-	-	21011101
25052101	Computer Ethics	3	-	-	-----------
Total		**12**			

Advisory Study Plan for the Bachelor's Degree in

First Year				
First Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
21011101	Management Basics	3	---------	---------
22011101	Accounting Principles (1)	3	---------	---------
23011101	Principles of Financial Management	3	---------	---------
24011101	Marketing Principles	3	---------	---------
25011101	Principles of management Information systems	3	---------	---------
55011307	University culture and behaviour	0	---------	---------
Total		15		

Second Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
23051101	Micro-economic Principles	3	---------	---------
23041101	Principles of Insurance (1)	3	---------	---------
25051102	Principles of statistics	3	---------	---------
55011101	Military Science	3	---------	---------
55011102	Arabic language (1)	3	---------	---------
Total		15		

Second Year				
First Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
24022101	Marketing Management	3	---------	---------
24011102	Consumer behavior	3	---------	---------
22034201	Cost accounting	3	---------	---------
24012103	Product Planning and development	3	---------	---------
---------	University elective article	3	---------	---------
Total		15		

Second Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
24023102	Marketing Research	3	---------	---------
24012104	Distribution channels	3	---------	---------
24012105	Marketing Communications	3	---------	---------
21042203	Supply Chain Management	3	---------	---------
---------	Optional specialty Material	3	---------	---------
Total		15		

Third Year				
First Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
24033103	Practical Applications in Advertising	3	---------	---------
24023204	Brand Management	3	---------	---------
55011204	Life skills	3	---------	---------
55011103	English language (1)	3	---------	---------
55011205	Basics and cognitive skills	3	---------	---------
---------	Optional article	3	---------	---------
Total		15		

Second Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
24033204	Customer Relationship Management	3	24022101	---------
24012206	Sales Management	3	24011101	---------
24033102	Personal Sale	3	24012206	---------
55011306	Leadership and creativity	3	---------	---------
---------	Optional specialty Material	3	---------	---------
---------	Optional article	3	---------	---------
Total		18		

Fourth Year				
First Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
24033101	E-Marketing	3	24012105	---------
24022103	Marketing strategy	3	24022101	---------
24044102	Industrial Marketing	3	24022103	---------
24024108	International Marketing	3	24022101	---------
---------	University elective article	3	---------	---------
---------	Optional article	3	---------	---------
Total		18		

Second Semester				
Course No.	Course Title	Cr. hrs.	Prerequisite	Co-requisite
24044103	Banking Marketing	3	24022103	---------
24044104	Tourism marketing	3	24022103	---------
24044101	Marketing Services	3	24022103	---------
21051201	Commercial legislation	3	---------	---------
21012205	Human resources management	3	21011101	---------
---------	University elective article	3	---------	---------
Total		18		

Description of Courses offered by the

Number	Course
1	Fundamentals of Management Information System 25011101 theoretical(3) Credit Hours prerequisite (Nill) Information Systems are one of major tools available to business manager for achieve strategic business objectives. This course provides an introduction to information systems and information technology, It identifies the basic types of business information systems, information systems development concepts, and application software. The student will be introduced to the importance of IS management, managing information resources and management issues in systems development. Course emphasis is placed upon the upper-level managerial considerations associated with the development, deployment, and use of information systems.
2	Advance Management Information System(25011202) (3) Credit Hours theoretical prerequisite(25011101) This course introduce students to advanced concepts in management information systems and their application in the business environment, and achieve the construction of intellectual student and integration with what has been has been taken into topics basics of management information systems and include a range of important planning and regulation of the activities of information systems, applications and platforms for the digital age to achieve topics Strategic goals of the business.
3	Business Intelligence 25024103 theoretical (3) Credit Hours prerequisite(25022102) The course aims at examining Business Intelligence (BI) as a broad category of applications and technologies for gathering, storing, and analyzing, sharing and providing access to data to help enterprise users make better managerial decisions. You will learn the principles and best practices for how to use data in order to support fact-based decision-making. Emphasis will be given to applications in marketing, where BI helps in, e.g., analyzing campaign returns, promotional yields, or tracking social media marketing; in sales, where BI helps performing for sales analysis; and in application domains such as Customer Relationship Management and e-Commerce. Practical experience will be gained by developing a BI project (case-study) with leading BI software.
4	Communication and writing skills 25042106 theoretical(3) Credit Hours prerequisite (Nill) This course aims to introduce the student to the concept of administrative communication

	and to develop some of the skills he needs in his private life and career, in addition to his definition of the basic concepts of communication as a core and vital in the life of business organizations. To achieve this, the course will deal with the following topics: the nature, importance and objectives of the communication process, trends, elements and channels of communication, obstacles to effective communication, the basis of successful correspondence writing. In addition to the recognition of listening skills and teamwork and the management of meetings and interviews.
5	Computer Application in Management (25012106) theoretical (3) Credit Hours prerequisite (25011101) A course designed to allow flexibility to present a wide variety of topics related to the application of microcomputer software to business, economics, and managerial decision-making in rapidly changing environments. This course will cover computer applications, and productivity software (word processing, spreadsheet, database, and presentation).
6	Computer ethics 25052101 theoretical (3) Credit Hours prerequisite(Nill) This course is designed to introduce students to the concept of business ethics and social responsibility in the light of the development of societies and the emergence of the need for them to realization to meet the renewable societal needs, the concept of morality, the concept of a computer and its importance and recognize the moral behaviors associated with using a computer as course covers topics of professional and ethical responsibilities, Information Security, Privacy computing, computer crimes.
7	Decision Support System 25044101 theoretical (3) Credit Hours prerequisite(42042201) Business users throughout many organizations need Decision Support Systems (DSS) and Business Intelligence (BI) for quick-and-easy access to information, to make timely and accurate decisions. DSS and BI refer to technologies and practices for the collection, integration, analysis and presentation of business information. The purpose of DSS is to support better business decision making. This module provides a foundation for teaching the subject of decision support systems (DSSs) from a cognitive processes and decision-making perspective. The content emphasize managerial applications and the implication of decision support technologies on those issues. This course place strong emphasis on helping the student thoroughly understand the "support" aspect of a DSS. The coverage of decision making and cognitive processes includes such topics as models of decision making, biases and heuristics, decision strategies, simulation, and discovery
8	Electronic customer relationship management 25054103 theoretical (3) Credit Hours prerequisite(25033102) This course aims to identify the role of e-customer relationship management in achieving satisfaction among customers, under the electronic system, which has a dynamic design and interaction, which is reflected on customer satisfaction, by shedding light on what the

	Internet as the most important challenge facing business organizations, especially with the enormous developments witnessed recently in the field of information and communication technologies, and because of the transformations taking place in the direction of the client marketing philosophy, which has become the most lucrative assets of organizations through a good relationship with management, new technologies for this administration relies on the internet and is not Dar appeared Customer relationship electronically, and the latter was reached as a result of substantial that there is a close relationship between the Internet and customer relationship management in order to gain and stay in permanent contact with the organization and thus raise the level of efficiency and performance
9	Introduction to Information Security Management 25044214 (3) Credit Hours theoretical prerequisite(25032201) Foundational concepts of cyber and information security and the key practices and processes for managing security effectively. Basic network fundamentals – including (but not limited to) topologies, protocols, address conservation, and services, and the security issues that affect networks. Basic cryptology and why it is fundamental to computer and information security.
10	Strategic Information Systems25013104 theoretical (3) Credit Hours prerequisite(25011202) Information technology (IT) is a strategic asset. Successful deployment and utilization of IT is necessary in order for a business to succeed and gain competitive advantage. The net result is a growing demand for guidance on the issues, strategies, tactics for using and managing IT. The course first introduces students to issues related to the use of IT for increasing organizational performance and productivity, and for gaining strategic and competitive advantage. It helps students identify problems and opportunities that are appropriate for IT applications and show how information technology can be utilized to address these problems and opportunities. The objective here is to derive guidance for today's and tomorrow's executives based on the experience of others.
11	Knowledge Management Systems 25043102 theoretic (3) Credit Hours prerequisite(25011202) Thorough coverage of the latest theory and practice of Knowledge Management (KM), with an integrated interdisciplinary presentation that makes sense of the confusingly wide variety of computer science and business KM perspectives arising simultaneously from artificial intelligence, information systems, and organizational behavior. Solidly covers the "hard" technical components of computer tools and technology for managing knowledge, without losing sight of the "soft" management needs and challenges in leveraging knowledge effectively within an organization. Critically evaluates the nature, computer representation, access, and utilization of knowledge versus information within a human context. Essential preparation for managerial, technical, and systems workers alike in today's modern

	knowledge-based economy.
12	Principles of Statistics 25051102 theoretical (3) Credit Hours prerequisite(Nill) Statistics is the science of collecting, organizing and interpreting numerical data. Statistical literacy is an essential skill that enables people to understand and make sensible decisions based on the analysis of numerical information. Data and numerical arguments exist not only in all areas of academic inquiry but also in everyday life. This course provides the tools and techniques needed to design studies that provide representative data for mathematical analysis and statistical interpretation. Topics include types of statistics, data representations (tables, graphs, and charts), measures of location and variation, and regression and correlation analysis
13	Programming Applications in Management 25012103 theoretical (3) Credit Hours prerequisite(42011107) This course aims to introduce students to the software applications that serve the field of management, in the light of the electronic revolution and its applications in the contemporary business world, by identifying the application programs that serve the administration, in addition to learning the programming language and study and how to write applications using the programming language To complete the work easily and quickly.
14	Information technology Project management 25044218 theoretical (3) Credit Hours prerequisite(25023104) The course introduces the students to the various concepts and methodologies of Project Management. The course describes the actual procedures and techniques used in planning, monitoring and controlling projects (i.e. Work and Product Breakdown Structures, Cost Benefit Analysis, Gantt and PERT Charts and Measurement Systems).
15	Technology Change Management 25042105 theoretical (3) Credit Hours prerequisite(25011101) This course aims to identify how to implement technical change and manage it within organizations. The course introduces technology change management (TCM) and illustrates the importance of managing information technologies in today's knowledge based societies.
16	(24023204) Brand Management: (3 credit hours) previous requirement (24022101) This course aims to familiarize students with the brand and what they can offering to its owner, branding as an important factor in influencing consumer purchasing behavior and its correlation to it, how to Choose a suitable center for the brand in the market or expand its activity, the role of branding as a key tool in differentiating products and maximizing their value
17	Introduction to Programming 42011199 theoretical (3) Credit Hours prerequisite(Nill) This course is designed to introduce students to the concept of Programming principles: variables and their naming; data types; redundancy clauses; choices; decisions; arrays;

	functions; classes; strings; C ++ applications;
18	Network Systems and Business Communication 25032201 theoretical (3) Credit Hours prerequisite(25011202) An introduction to the concepts and applications of telecommunications and networking technology in a business environment. Topics include network-related hardware and software technology, standards and protocols, local and wide area networks, network management, and emerging trends. Emphasis is on the ability to integrate basic technological components to meet the business application requirements. Students will prepare a variety of projects involving the analysis, design, and management of network systems.
19	IS Analysis and Design 250022102 theoretical (3) Credit Hours prerequisite(42011107) Modern Systems Analysis and Design oriented toward practical approach to help students learn the methods and principles of systems development. This course covers the concepts, skills, methodologies, techniques, tools, and perspectives essential for systems analysts to successfully develop information systems.
20	Databases 42042201 theoretical(3) Credit Hours prerequisite(25022102) This course introduces the database definition, database system; overview of database management, database system architecture, introduction to relational model, database algebra, database design, database integrity, an introduction to structured query language (SQL), mapping between ER- and EER-to-Relational, Students will apply their gained knowledge in a practical course project.
21	Introduction to Software engineering 25012208 theoretical (3) Credit Hours prerequisite(25022102) Software engineering is the branch of computer science that creates practical, cost-effective solutions to computing and information processing problems, preferentially by applying scientific knowledge, developing software systems in the service of mankind. This course covers the fundamentals of software engineering, including understanding system requirements, finding appropriate engineering compromises, effective methods of design, coding, and testing, team software development, and the application of engineering tools. The course will combine a strong technical focus with a capstone project providing the opportunity to practice engineering knowledge, skills, and practices in a realistic development setting with a real client.
22	E business 25033102 theoretical (3) Credit Hours prerequisite(25032101) Presents concepts and skills for the strategic use of e-commerce and related information technology from three perspectives: business to consumers, business-to-business, and intra-organizational. Examination of e-commerce in altering the structure of entire industries, and how it affects business processes including electronic transactions, supply chains, decision making and organizational performance.

23	Expert System 25044203 theoretical (3) Credit Hours prerequisite(25044101) this course is an introduction to expert systems, which is an integral part of the computer science curriculum. In this course, we learn how theory and applications complement each other. Both theory and application are presented. Students are provided with the CLIPS language which they can use to develop systems of their own. By integrating theory with a fully functional means of applying that theory to real-world situations, students will gain an appreciation for the role played by expert systems in today's world. Each chapter provides a rich collection of exercises, including a set of programming exercises.
24	Health Information Systems 25023101 theoretical (3) Credit Hours prerequisite(42042201) This course provides an overview of various health information systems, with emphasis on case studies of systems utilized in areas such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed.
25	Application in database 25023104 theoretical (3) Credit Hours prerequisite(42042201) Upon completion of this course, participants will have gained knowledge of database system concepts and the ability to: • understand user requirements/views • analyze existing and future data processing needs • develop an enterprise data model that reflects the organization's fundamental business rules • develop and refine the conceptual data model, including all entities, relationships, attributes, and business rules • integrate and merge database views into conceptual model • apply normalization techniques • identify data integrity and security requirements • derive a physical design from the logical design taking into account application, hardware, operating system, and data communications networks requirements
26	Especial Topics in Information System25034104 theoretical (3) Credit Hours prerequisite(25022102) The management information systems field evolves rapidly and covers many topic areas. Recent developments in areas such as office automation, data communications, and the implementation of management information systems.
27	Geographic Information System25034106 theoretical (3) Credit Hours prerequisite(25011202) (Overview of Geographic Information System (GIS) concepts and components. Both

	theoretical and applied realms of GIS are emphasized in this course. Topics include spatial (location) and attributes (description of features), base maps, spatial data manipulation and analysis. Course designed for nonforestry/environmental science majors who want a broad overview of GIS.
28	Supply Chain in Management Information System 2503305 theoretical (3) Credit Hours prerequisite(55031305) (Study of the relationship between information systems and organizations and demonstration of how computers and information systems are integral to modern organizations. Systems such as Enterprise Resource Planning, Supply Chain Management and Customer Relationship Management will be discussed.
29	Contemporary Issues in Information Systems 25044207 theoretical (3) Credit Hours prerequisite(25034104) The focus of this course is on the understanding and evaluation of new and emerging technologies that are transforming businesses and societies. With the rapid changes in technologies, IT professionals and domain experts must be able to identify and evaluate new and emerging technologies and their potential for supporting and enhancing organizational and societal value. In this course, students will learn to recognize research and evaluate new and/or emerging technologies, as well as recognize and assess trends in technology development and their potential impacts. Students will learn how to develop a technology roadmap and be introduced to techniques for forecasting and evaluating new technologies. Students will also gain an understanding of theoretical concepts and guiding principles of emerging technology management and be exposed to key issues and challenges associated with managing and integrating these technologies in organizations. Students will also be exposed to key issues and challenges associated with managing and integrating these technologies in organizations and society.