

**BACHEROL DEGREE COURSE DESCRIPTION 2009/2010**  
**DEPARTMENT OF MIS**

**First: University Requirements (27 credit-hours)**

**\*) Compulsory Courses: 12 credit-hours**

Course Code	Course name	Credit-Hours	Pre-requisite
1501102	Communication Skills: Arabic Language(2)	3	-
1502102	Communication Skills: English Language (2)	3	-
1700100	National Education	3	-
1500100	Military Sciences	3	-

**\*) Elective Course: 15 credit-hours to be chosen from the following courses:**

**First Area: Human Science**

Pre-requisite	Course name	Credit-Hours	Course Code
1000101	Democracy & Human Rights	3	-
0401100	Islamic Culture	3	-
0402100	Islamic System	3	-
1702101	Islamic Civilization	3	-
0803100	Library & Information Science	3	-
1132100	Sports and Health	3	-

**Second Area: Economic and Social Science**

1731100	Logic and Critical Thinking	3	-
1704100	Introduction to Social Sciences	3	-
1736100	Principle of Psychology	3	-
1723100	Archaeology of Jordan	3	-
1705100	Jordan Geography	3	-
1601105	Managerial Skills *	3	-

**\* This course must not be taken by the students of the Business Faculty or else it will be nullified.**

**Third Area: Science and Technology and Agriculture and Health**

0342100	Science and Society	3	-
0305100	Environment	3	-
0641100	Home Agriculture	3	-
0905100	Principles in Public Safety	3	-
0603100	Human Nutrition Principles	3	-
0630100	Agriculture in Jordan	3	-

**c) General Requirements:**

Course Code	Course Name	Credit-Hours	Pre-requisite
1501098	Arabic Language Exam	3	-
1502098	English Language Exam	3	-
1502099	English Communication Exam	3	-
1600150	Community Service	3	-
1901098	Computer Skills Exam	3	-

**Second: Faculty Requirements (Compulsory) 24 Credit Hours**

Course No.	Course	Credits	Prerequisites
1601102	Principles of Business Management	3	-
1602101	Principles of Accounting 1	3	-
1603211	Principles of Financial Management	3	1602101
1604201	Principles of Marketing	3	-
1605215	Principles of Management Information Systems	3	-
1606102	Contemporary Public Management	3	-
1607110	Principles of Microeconomics	3	-
1607150	Principles of Statistics for Business	3	-

### Third: Specialization Compulsory and Supportive Requirements – 60 Credit Hours

Course No.	Course	Credits	Prerequisites
1605201	Introduction to programming	3	–
1605311	IT Tools for Business Applications	3	1605215
1605312	Information Resource Management	3	1605215
1605313	Office Automation systems	3	–
1605321	Business Software Development	3	1605201
1605320	Database Management Systems(1)	3	–
1605323	System Analysis and Design	3	1605320
1605332	E- Business	3	–
1605339	Business Modeling and Simulation	3	–
1605440	Database Management Systems (2)	3	1605320
1605441	Business Data Communications and Networking	3	1605215
1605442	Expert Systems & Decision Support Systems	3	1605339
1605446	Advanced Programming	3	1605321
1605451	MIS Project	3	Dep. Approval
1605452	Research Seminar in Management Information Systems	3	1605215
1001120	Business law	3	-
1602102	Accounting Principles (2)	3	1602101
1601311	Operations Research	3	0331103
0331103	Mathematics for Business Students	3	-
1601413	Production and Operations Management	3	1601311

#### Fourth: Specialization Elective Requirements (21 Credit Hours)

Course No.	Course	Credits	Prerequisites
1605335	Contemporary Issues in MIS	3	-
1605336	Computer Ethics	3	-
1605337	E- government	3	-
1605338	Knowledge Management :Techniques & Practices	3	-
1605437	Financial Information Systems	3	1603211
1605444	Information Security	3	-
1601331	Supply Chain Management	3	-
1601403	Human Resources Management	3	1602101
1601405	Strategic Management	3	-
1601408	Entrepreneurship	3	-
1601419	Total Quality Management	3	-
1601423	Project Management	3	1601311
1602211	Managerial Accounting	3	1602101
1603322	Investment Management	3	1603211
1604213	Consumer Behavior	3	-
1604315	E- Marketing	3	-
1602333	Accounting Information System	3	1602101
1607362	Economic Feasibility Studies	3	1607150

## Modules offered by the Department of Management Information Systems

Course No.	Course	Credits	Prerequisites
1605201	Introduction to Programming	3	-
1605311	IT Tools for Business Applications	3	1605215
1605312	Information Resource Management	3	1605215
1605313	Office Automation systems	3	-
1605321	Business Software Development	3	1605201
1605320	Database Management Systems(1)	3	-
1605323	System Analysis and Design	3	1605320
1605337	E- Government	3	-
1605332	E- Business	3	-
1605339	Business Modeling and Simulation	3	1605201
1605338	Knowledge Management :Techniques &practices	3	-
1605335	Contemporary Issues in MIS	3	-
1605336	Computer Ethics	3	-
1605437	Financial Information Systems	3	1603211
1605440	Database Management Systems (2)	3	1605320
1605441	Business Data Communications and Networking	3	1605215
1605442	Expert Systems & Decision Support Systems	3	1605339
1605444	Information Security	3	-
1605446	Advanced Programming	3	1605321
1605451	MIS project	3	-
1605452	Research Seminar in Management Information Systems	3	1605215

**Course Title** 1605201 Introduction to Programming

**Credit Hours** 3

Prerequisite: (None)

An introduction to the theory and practice of computer programming , the emphasis of this course is on techniques of program development. Topics include the differences between procedural and object- oriented paradigms, I/O , data types , variables and expressions , conditional statements , iteration , recursion , arrays , functions , parameter passing , and returning values . Students will also be introduced to objects , classes, inheritance, simple data structures , and basic concepts of software development using a modern programming language Students will learn the analysis and formulation of problems for computer solution, systematic design, construction , and testing of programs.

**Course Title** 1605215 Principles of Management Information Systems

**Credit Hours** 3

Prerequisite: (None)

Introducing the essentials of Management Information Systems (MIS), providing an overview of Information Systems (ISs) and their applications in business organizations, managing the information resource in organizations, the use of Information Systems (ISs), and technical issues are blended with managerial concepts, provide enough knowledge to be able to feel at ease when hearing or using some of the technical jargon.

**Course Title** 1606103 Public Organizations Management

**Credit Hours** 3

Prerequisite: (None)

This course aims at introducing students to the administrative concepts in public organization, their nature of work, and their effectiveness as a development tool it also discusses problems facing managers and solutions, and skills needed for solving the problems of public organizations. Analysis of cost and benefit, distribution of resources, and methods of decision-making.

**Course Title** 1605311 IT Tools for Business Applications

**Credit Hours** 3

Prerequisite: (1605215)

The essentials of business computing, a brief history about the basics of computer hardware and the situation prevailing in Jordanian industry and commerce, computer software, operating systems, programming languages and particular application packages, 'hands-on' application work will concentrate on spreadsheets, databases, electronic mail, word processing and presentation graphics application as business tools, the management of business computing including organizational aspects, system development, people and security..

**Course Title 1605312 Information Resource Management**

**Credit Hours 3**

Prerequisite: (1605215)

The impact of Information Technology (IT) on organizations in general, and on new organization structures and control systems that are enabled by IT, IT role in managing the organization transformation process, inter-organizational systems and Electronic Data Interchange (EDI), IT role in changing organization boundaries and market practice, management and strategic issues raised by the introduction of new Information Technologies (ITs), IT and managerial effectiveness, emerging Information Technologies (ITs) such as virtual reality and multimedia, assessing the potential strategic uses of IT, organization and leadership issues like the role of information officers, IT and global enterprises and future technologies, applications, and organizations.

**Course Title 1605313 Office Automation Systems**

**Credit Hours 3**

Prerequisite: (None)

General concepts of the office and office management systems, designing and organizing the office works, a concentration on the general application of automation concepts to the modern workplace, automation and the office works modeling, the application of office automation tools and techniques in the computerized office, the communication and messaging systems, electronic meeting and managerial reporting systems, document and filing management systems, a practical use of the most available office automation applications, the important role of end user computing in commercial organizations.

**Course Title 1605321 Business Software Development**

**Credit Hours 3**

Prerequisite: (1605201)

The basic concepts of algorithm development, programming concepts and the design and applications of data and file structures as well as the notion of problem solving in the context of computer programming for business, the basic concepts of Software Development, these include the S/W life cycle of analysis, design, coding, testing and maintenance, the development strategies of top-down design and Object-Oriented Programming (OOP), the coverage extends to include a practical programming languages and their features building on what has been acquired in computer skills courses.

**Course Title 1605320 Database Management Systems (1)**

**Credit Hours 3**

Prerequisite: (None)

This course will cover the essentials of database management system. It includes an overview about the database and database management systems, introduction to database design (entities, attributes, relationships, ER diagram, EER diagram...etc), normalization, relational algebra and model, and basic SQL queries used for defining and updating the database.

**Course Title** 1605320 System Analysis and Design

**Credit Hours** 3

Prerequisite: (None)

This course will cover the essentials of database management system. It includes an overview about the database and database management systems, introduction to database design (entities, attributes, relationships, ER diagram, EER diagram...etc), normalization, relational algebra and model, and basic SQL queries used for defining and updating the database.

**Course Title** 1605323 System Analysis and Design

**Credit Hours** 3

Prerequisite: (1605320)

Introduction to system analysis and design of business organizations, the analysis and conceptual design phases of the System Development Life Cycle (SDLC), system planning and project orientation, project management approach, providing an in-depth coverage of the requirement analysis including finding, process modeling, network modeling, project repositories and business process redesign, system analysis tools, the role of the system analyst, the basic foundations of conceptual design such as the feasibility analysis and architectural selection, system development and documentation, practical study of real life business cases are also covered.

**Course Title** 1605337 E-government

**Credit Hours** 3

Prerequisite: (None)

The course curriculum will include topics that will address the following aspects of e-Government and focus on what goes into building and operating a functional e-government system: e-Government Strategies and Solutions, Best Practices and Global Case Studies, Service and Information Delivery, Security Considerations including authorization, identity and e-authentication, infrastructure protection, and payment system safeguards and e-Procurement..

**Course Title** 1605332 E-Business

**Credit Hours** 3

Prerequisite: (None)

Basic fundamental concepts of electronic business and commerce, overview of a practical use of Internet for commercial use, an emphasis on the navigation of the Internet as well as designing web work and publishing web pages on the Internet, the coverage also extends to e-retailing, e-stock trading, e-publishing and e-banking, problems surrounding the e-commerce including security, privacy, new business processes and cross border commerce.

**Course Title** 1605339 Business Modeling and Simulation

**Credit Hours** 3

Prerequisite: (None)

The conceptualization of business problems, the use of a diagrammatic model, the design and structuring of formal spreadsheet models as well as the validation, verification and documentation of models, solving real life business problems, using computer modeling and the exploration of different scenarios, using the what-if analysis and testing the sensitivity of model outputs.

**Course Title** 1605338 Knowledge Management: Techniques & Practices

**Credit Hours** 3

Prerequisite: (None)

Knowledge Management (KM) is a discipline that promotes an integrated approach to identifying, capturing, sharing and evaluating an enterprise's information and knowledge assets. This course reviews and discusses existing enabling technologies in KM and new, emerging KM technologies and practices. Such technologies are presented in the context of emerging Internet, data mining, e-commerce, and enterprise computing applications.

**Course Title** 1605335 Contemporary Issues in MIS

**Credit Hours** 3

Prerequisite: (None)

This course studies new and modern selected issues in the field of management information systems. A set of topics will be discussed, researched, and analyzed concerning contemporary cases and trends regarding MIS discipline. Students are expected to realize the important role of recent developments in MIS and how they affect the business world.

**Course Title** 1605336 Computer Ethics

**Credit Hours** 3

Prerequisite: (None)

This course covers ethical issues concerning the proper use of computer hardware and software. It aims at developing awareness and skills for ethical decision-making through careful and analytical methods. Typical issues include privacy, security, intellectual property, computer fraud, legitimate computer use, and others. The course introduces ethical theories and uses them to evaluate moral problems related to information technology within business environment in order to help students develop the ability to reach conclusions and defend them from an ethical point of view.

**Course Title** 1605437 Financial Information Systems

**Credit Hours** 3

Prerequisite: (1603211)

Explaining the need for financial information and their organizational applications as well as the nature of the required information as related to the prospective user, the focus is therefore on managerial and financial accounting as those FISs lie at the heart of virtually all financial administrations and used by commercial and non-profit organizations, the student is meant to understand the features and structure of those systems and the relevance of information technology especially the enterprise resource planning (ERP) software systems to the work of modern organizations, students will be asked to use relevant computer software applications.

**Course Title** 1605440 Database Management Systems (2)

**Credit Hours** 3

Prerequisite: (1605320)

This course will cover advanced database topics such as: nested SQL queries, complex integrity constraints in SQL, triggers and active databases, creating forms and views. The course will be ended by a project that deals with applying a comprehensive database system connected to a real world/ internet based application.

**Course Title** 1605441 Business Data Communications and Networking

**Credit Hours** 3

Prerequisite: (1605215)

Introducing the principles of Data Communications and Networking, the telecommunication systems and the different protocols and computer networks required to know by the business organizations, the foundations extend to coverage of communication concepts, transmission media, signal representation and modulation, packet switching and routing, network topology and architecture, network management and Internet protocols TCP/IP.

**Course Title** 1605442 Expert Systems & Decision Support Systems

**Credit Hours** 3

Prerequisite: (1605339)

Introduces a broad coverage to the latest concepts of knowledge-based systems (KBS), demonstrates and overviews the technology needed for using such systems, an introduction into the application of Artificial Intelligence (AI) techniques in business, discusses different types of systems such as Decision Support Systems (DSS) and their variations as well as Expert Systems (ES) and explains their value-added contributions to the work of organizations, the coverage will extend to include major characteristics of KBSs, the knowledge acquisition and representation, inference techniques, Expert Systems development tools and Case-Based reasoning.

**Course Title** 1605444 Information Security

**Credit Hours** 3

Prerequisite: (None)

The goal for students in this course is to learn the fundamentals of information security (what is information?, principles of computer security, basic cryptography, authentication, attacks and defenses...etc), the measures that ensure the security of the computers systems and knowing how to respond to potential violations, and understanding what puts the organization at a risk and how to control it (controlling a risk is not eliminating the risk but to bring it to a tolerable level)..

**Course Title** 1605446 Advanced Programming

**Credit Hours** 3

Prerequisite : (1605321)

This course explores concepts of advanced programming of business applications including: computer utilization, reporting, data validation, sorting, searching, file structures, and various programming capabilities. A current programming language and state-of-the-art libraries will be selected to demonstrate the programming techniques and their widely employed applications in business environment.

**Course Title** 1605451 MIS Project

**Credit Hours** 3

Prerequisite: (Departmental Approval)

This is a supervised project by a department member. It is meant to be a field project involving advanced concepts and application to solving practical problems and providing insights for understanding the application of Management Information Systems in business. The student is expected to make a professional project presentation demonstrating the completion of the successful endeavor.

**Course Title** 1605452 Research Seminar in Management Information Systems

**Credit Hours** 3

Prerequisite: (1605215)

The student learns the application of general system theory concepts and research methods in Management Information Systems. The coverage extends to discussing different methods and techniques for evaluating the role and impact of Information Systems in business and public enterprises. In addition, the course includes case discussions of Information Systems failures and success in real life. The student will be required to produce a research report about the use of IS/IT in an establishment.

