



College of Business
Department of Management Information System

M.A Study Plan
Major Business Information Technology, Thesis Track
Academic Year 2023 / 2024

Type of Program : **Blended**

Study Plan Credit hours (33)

Teaching Type	Percentage of study plan hours/number	Actual Ratio
Complete Online E-Learning	20% - 10% Maximum	18%
Blended learning (for humanities)	60% - 40% Maximum	45%
Blended learning (for scientific majors)	50% - 30% Maximum	
Face-to-face learning (for humanities)	20% Minimum	37%
Face-to-face learning (for scientific majors)	30% Minimum	

Note: The learning types of the courses are disseminated at all academic levels in the program



Department Vision

Entrepreneurship and excellence in education, academic learning and research in the field management information systems at the local and regional levels

Department Mission

Preparing scientifically qualified staff supported by knowledge and skills of management information systems and professional ethics to work in all areas of business information technology, to meet the needs of the local and regional community, in accordance with local and international quality criteria.

Program Mission

Providing distinguished academic programs in business information technology supported by knowledge, skills and professional ethics through qualified staff capable of keeping pace with local and international standards in accordance with the e-learning inclusion criteria.

Educational Program Objectives

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. Promoting students' potential in applying technical concepts in the field of information technology.
4. Promoting research potential in enhancing the success of information systems in business organizations.
5. Preparing teaching staff capable of keeping pace with technological development in the field of education.

Educational Program Outcomes

1. Understand modern theoretical and practical knowledge in the field of business information technology and management of information technology projects.
2. Explain the role of information systems in solving problems and making decisions.
3. Apply the skills of dealing with business information technology.
4. Analyzing information systems and maintaining their sustainability.
5. Assessment of ethical responsibilities in the field of business management and information systems.
6. Develop communication and teamwork skills.

Plan Contents





First: The study plan for a master's degree consists of a major in business information technology of (33) credit hours disseminated as follows:

Track	Requisite Type	Credit Hours	Percent %
Thesis	Compulsory Major Requisite	18	54.5%
	Elective Major Requisite	6	18.2%
	Thesis	9	27.3%
Total		33	100%

Coding system approved by the University

X	X	X	X	05	2
Sequence		Course Level		Major Code	College Code

Second: the Thesis Track

A. Compulsory Requisites (18) credit hours:

Teaching type			Course Number	Course Title	Credited Hours	Pre-Requisite
Online E-Learning	Blended	Face-to-Face				
		X	21030701	Scientific Research Methodology for business students	3	-
	X		20530703	Advanced E-Business	3	-
	X		20540704	Decision Support Systems and business intelligence	3	-
		X	20540705	Advanced Systems Analysis and Design	3	-
		X	20540703	Advanced Database Management Systems	3	-
	X		20510708	Advanced Enterprise Resource Planning	3	-
Total					18	



B. Elective Requisites (6) credit hours chosen by the student from the following courses:

Teaching type			Course Number	Course Title	Credited Hours	Pre-Requisite
Online E-Learning	Blended	Face-to-Face				
		X	20110709	Entrepreneurships and small business management	3	-
	X		20510700	Advanced Management Information System	3	-
	X		20540708	Advanced Information Resources Management		
		X	20210705	Managerial and Financial Accounting for Business Students	3	-
X			20420701	Marketing Management	3	-
	X		20510707	Information Systems Security	3	-
		X	20530702	Data Communication Management	3	-
X			20510704	Advanced knowledge Management Systems	3	-
	X		20540706	Information technology Project management	3	-
	X		20540707	Special Topics In Business information technology	3	-
		X	20830701	Human Resource Management Information System	3	-
Total					6	

C. Thesis:

Prerequisite	Credit Hours	Course Title	Course No.
-	9	Thesis	-



Course Description

(21030701) Scientific Research Methodology for Business Students (3 credit hours): Face-to-Face

The course covers the study and analysis of the concept and terminology of scientific research and its role in supporting the administrative decisions in business organizations. It deals with all aspects and stages of the process of scientific research including determination of the problem, defining the variables, the choosing the research design, developing hypotheses, collection of data, develop a plan of inspection, collection and analysis of data, testing hypotheses and writing the final report. The course deals with descriptive statistics including organization of data, measures of central tendency and dispersion, correlation and regression. The course covers distributions like Normal, t and F in addition to sampling and sampling distributions. Testing hypotheses about the mean of a population, the difference between two means, Analysis of variance and regression will be covered using SPSS.

(20540704) Decision Support Systems and Business Intelligence (3 credit hours): Blended

This course specializes theories, methodologies and tools to develop decision support and access to knowledge and skills systems to understand how to build and implement and support those systems. This course covers many items including: types of managerial decision-support systems, stages of the development of decision support systems, components of decision support systems, as a rule and database models and knowledge base and method of human interaction with decision support systems with a focus on relevant topics such as data warehouses and data acquisition in addition to introducing the state-of-the-art of Business Intelligence and Analytics techniques to discover knowledge from massive data sets using a hands-on approach. Students will have a chance to apply such techniques on real-world data sets in various domains, including finance, healthcare, commerce and sports in order to produce actionable intelligence for enhanced managerial decision making.

(20530702) Data Communication Management (3 credit hours): Face-to-Face

This course builds on advanced telecommunications and network management concepts. Advanced topics in physical layer propagation, advanced switch operation, wireless environments, LANs, WANs, network applications, and a comparison of client/server versus Web applications.

(20530703) Advanced E-Business (3 credit hours): Blended

Examines e-business models. Topics include the application of business strategy, consumer behavior, and customer relationship theories in e-business environments. Business-to-business and business-to-consumer arrangements are considered. Supply chain and other e-business infrastructure issues are covered.

**(20510700) Advanced Management Information System (3 credit hours) Blended**

Examines a range of topics that present managerial challenges unique to technology-oriented environments. Topics include new technology convergence, the management of technology that disrupts existing industries, measuring new technology impacts, and business continuity planning, among others.

(20540703) Advanced Database Management Systems (3 credit hours): Face-to-Face

This course builds on basic database concepts. Topics include physical database design, advanced SQL, data warehousing, data mining, XML data and schemas, database administration and data center administration.

(20540705) Advanced System Analysis and Design (3 credit hours): Face-to-Face

This course builds on advanced systems analysis and design concepts including distributed systems analysis and design. Use cases, quality assurance, performance metrics, and current trends are investigated.

(20510704) Advanced knowledge Management Systems (3 credit hours Online E-Learning

This course introduces the students to some of the critical issues and debates in knowledge management. The course stresses the human and business aspects of knowledge management. It will be taught from the perspective of the user of technical tools and methods

(20540707) Special Topics In Business information technology (3 credit hours) Blended

This course offers the student the opportunity to study an advanced current topic in this rapidly changing field.

(20510707) Information Systems Security (3 credit hours) Blended

This course provides a deep and comprehensive study of the security principles and practices of information systems. Topics include basic information security concepts, common attacking techniques, common security policies, basic cryptographic tools, authentication, access control, software security, operating system security, and legal and ethical issues in information systems security. Through this course, students shall be able to understand the basic principles and practices in information systems security. In particular, understand what the foundational theory is behind computer security, what the common threats are, and how to play with the games with attackers.

(20210705) Managerial and Financial Accounting for Business Students (3 credit hours): Face-to-Face

This course aims to define the financial statements for the corporation. It includes income statement, comprehensive income statement, change in equity statement, balance sheet and cash flow statement. The course includes also the main financial ratios and indicators for profitability and



solvency. In addition, it covers the differences between managerial and financial accounting, budgets, manufacturing cost definitions and break-even point.

(20420701) Marketing Management (3 credit hours): Online E-Learning

This course aims to study advanced marketing management and all its stations and axes, providing students with skills related to how to apply administrative functions to marketing activity, marketing planning skills, organization, coordination, marketing guidance, leadership and control, execution of marketing activities, marketing decision making, Global Marketing.

(20830701) Human Resource Information Systems (3 credit hours): Face-to-Face

This course aims to introduce the student to specialized and distributed information systems in the field of human resource management. On the functions of resources and human resources practices in terms of attracting, selecting, appointing, training, rewarding and handling situations of Human Resources. Recruitment applications, human resources planning applications, performance management applications, training applications. Professional development, compensation applications, this course also covers topics related to needs analysis, definition selection of core data, system design, system evaluation and maintenance.

(20540706) Information Technology Project Management (3 credit hours): Blended

This course aims to introduce the definition of "information technology project management", focusing on information technology projects. The course combines an academic text that treats project management from a research point of view, and it provides operating cases and other powerful pedagogical elements; and a practical text at the end of each chapter it provides practical projects using Microsoft Project, the preferred tool in this market. It also provides excellent preparation for the PMI certification exam.

(20110709) Entrepreneurship and Small Business Management (3 credit hours): Face-to-Face

This course aims to introduce the concept of entrepreneurship and its importance in establishing business projects, and to define the basics and characteristics of entrepreneurship, the requirements of administrative work and the basic activities of entrepreneurship. It also defines the characteristics and skills of entrepreneurs and explains their role in setting up entrepreneurial projects. In addition, it will clarify the challenges facing entrepreneurial and small businesses in Jordan. This course will also deal with many aspects required to establish any successful entrepreneurial project, learn how to deal with the process of establishing and managing entrepreneurial projects, providing the necessary skills to prepare correct business plans, and how to transform ideas into successful entrepreneurial projects. On the other hand, it deals with clarifying the concept of entrepreneurship and small business, and explaining the activities and principles of entrepreneurship and small projects, with a focus on mastering the skills necessary to plan, manage and finance small businesses, and writing a business plan for a small project, taking into consideration the context of Jordan.

**(20540708) Advanced Information Resources Management (3 credit hours): Blended**

The course aims to address advanced topics that highlight the importance of information and its understanding as a resource, as well as the evaluation of methods employed in the information quality management process. This is achieved by learning the fundamental concepts of information sources and knowledge management to instill confidence in making appropriate decisions. Additionally, it aims to comprehend the relationship between information and decision-making processes, achieving the characteristics of good information, and gaining a full understanding of information systems' strategies and how to assess organizational impacts of information systems. Furthermore, it explores the relationship between information workers and managers, the need for adapting and reviewing components and features of the information technology environment, and how to swiftly collaborate with evolving business processes for information technology. Lastly, it covers the knowledge required to build a suitable information technology infrastructure for any business application.

(20510708) Advanced Enterprise Resource Planning (3 credit hours): Blended

The course provides a comprehensive overview of enterprise system management and its role within an organization. It also elucidates critical success factors and implementation strategies that lead to the success of an enterprise system, identifying opportunities for information and knowledge provision and decision-making facilitated by enterprise systems. Additionally, it delves into the in-depth concepts of integrated information systems and explains why these systems are essential for businesses and organizations. The course will also offer discussions on various real-world scenarios in which enterprise system management concepts can be applied. Furthermore, it will provide an overview of Business Intelligence (BI) and analytics in enterprise system management.