



Ajloun National University

جامعة عجلون الوطنية

## **Faculty of Business**

### **Department of Management Information Systems**

#### **Study Plan for the Bachelor's Degree in Management Information Systems Academic year 2023/2024**



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## Vision

To remain a destination for those seeking excellence in utilizing information technology creatively in administrative work.

## Mission

To provide leading educational services in management information systems and contribute to the development of a knowledge-based society, while offering a high quality educational and research environment.

## Goals

- 1) To offer a comprehensive education in management information systems that equips students with the knowledge and skills required for creative administrative work.
- 2) To engage in cutting-edge research and innovation in the field of management information systems.
- 3) To foster a collaborative and supportive learning environment that encourages critical thinking and problem-solving.
- 4) To promote community engagement and knowledge dissemination in the domain of management information systems.
- 5) To continuously adapt and evolve the curriculum to stay current with advancements in information technology and management practices.



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## Learning Outcomes

### Knowledge

Understanding management information systems: Understanding the concepts and foundations of management information systems and how they affect management and decision-making processes

Business Applications: Learn how to use information systems techniques to solve problems and improve processes in areas such as marketing, production management, purchasing management, and others.

Digital Transformation and Innovation: Understanding digital transformation and how to apply technology to improve organizations' performance and achieve innovation.

Data Security and Ethical Responsibility: Identify the ethical issues associated with management information systems, adhere to ethical standards in handling information and data, understand the importance of information security, and apply data protection practices.

### Skills

Systems Analysis and Design: Students can analyze the needs of organizations and design effective information systems that meet business and management requirements.

IT Project Management: The ability to effectively manage IT projects, including defining tasks, planning resources, and monitoring progress.

Effective communication and collaboration: The ability to communicate and collaborate with work teams and colleagues effectively.

### Competencies

Systems and database design: Designing administrative information systems and databases that are effective and appropriate to the needs of institutions.

Application development and programming: Develop applications and software using different programming languages and modern development technology.

Ability to analyze data and make decisions: The ability to analyze data and learn how to use data analysis tools to make sound management decisions.

Active participation in the development of cybersecurity specialization and community service.



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## Contents of the Study Plan

The study plan for the bachelor's degree in Management Information Systems of (132) credit hours distributed as follows:

Certified On Campus learning (1+1, An hour and a half of on campus learning + one half hour of campus learning).

Certified Electronic (1+1, An hour and a half synchronous Electronic + campus learning).

Certified Blended (1+1, An hour and a half synchronous Blended + campus learning).

Number	Type of Requirement	Credit Hours	percentage%
First	University Requirements	27	20.45 %
Second	Faculty Requirements	21	15.91 %
Third	Compulsory Requirements	72	45.54%
	Elective Requirements	09	6.8%
	Supporting Requirement	12	9%
Fourth	Free Elective Requirement	3	2.3%
Total		132	100%

## University Coding System

Faculty Code    Department Code    ( Level Year)    Knowledge Area    Course sequence

4

03

0 Remedial  
1 First  
2 Second  
3 Third  
4 Fourth





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### Knowledge Area

Knowledge Number	Knowledge Area	Number of Credit Hours
0	Data Management and System Design Analysis	21
1	Administrative and Financial Sciences	18
2	Programming Roles and Business Applications	15
3	Business Information Systems and Applications	12
4	Electronic Business Systems and Multimedia	9



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First: University Requirements (27) Credit Hours

A. University Compulsory Requirement (12) Credit Hours

Course code	Course Name	Credit Hour	Prerequisite	Learning Type		
				Electronic	Blended	On Campus
704107	Entrepreneurship and Innovation	1			√	
704109	Leadership and Social Responsibility	1			√	
704116	Life Skills	1			√	
704117	English Language Skills (1)	2	714099	√		
704118	Arabic Language Skills (1)	2	704099		√	
704119	National Education	2	-		√	
704200	Military Sciences	3	-			√

B. University Elective Requirements (15) Credit Hours

Course code	Course Name	Credit Hour	Prerequisite	Learning Type		
				Electronic	Blended	On Campus
201101	The Law in our Lives	3			√	
202132	Human Rights	3			√	
701140	Arab Library and Lexicography	3	-	√		
704103	International and Arab Contemporary Issues	3				√
704104	Islamic Culture	3	-	√		
704108	Integrity and Transparency	3			√	
704110	Digital Culture	3			√	
704112	Arabic Language Skills (2)	3	704118		√	
704113	Art of Rhetoric and Dialogue	3				√
704115	Development and Family Planning in Islam	3			√	
704141	History of Jerusalem	3			√	
704151	Computer Skills (1)	3	724099		√	
704152	Computer Skills (2)	3	704151		√	
704163	Foreign Language other than English	3			√	
704172	Sports and Health	3				√



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Second: Faculty Requirements (21) Credit Hours

Course code	Course Name	Credit Hour	Prerequisite	Learning Type		
				Electronic	Blended	On Campus
401100	Management Principles	3	-		√	
401109	Marketing Principles	3	-		√	
401115	Mathematics for Business Students	3	-		√	
402101	Accounting Principles (1)	3	-			√
403107	Management Information Systems Principles	3	-	√		
405101	Microeconomics Principles	3	-		√	
405202	Financial Management Principles	3	-			√

Category 3: Compulsory Faculty Requirements:



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Third: Department Requirements (81) Credit Hours

A. Department Compulsory Requirements (72) Credit Hours

Course code	Course Name	Credit Hour	Prerequisite	Learning Type		
				Electronic	Blended	On Campus
401111	Research Methods	3	-		√	
401412	Quantitative Methods in Management	3	-			√
401424	Computer Applications in Business*	3	-			√
403100	Introduction to Information Technology	3	-	√		
403105	Office Automation and Management Systems	3	-	√		
403108	Programming for Business Students*	3	-			√
403129	E-commerce	3	-		√	
403201	Advanced Management Information Systems	3	-	√		
403203	Electronic Governance	3	-		√	
403209	Legislations and Ethical Responsibility in Information Systems	3	-	√		
403212	Social Media	3	-		√	
403213	Databases for Business*	3	-		√	
403231	Knowledge Management	3	-		√	
403303	Contemporary Issues in Information Systems	3	-		√	
403305	Project Management	3	-			√
403310	Web Design for E-commerce*	3	-		√	
403313	Information Systems Analysis and Design	3	-		√	
403320	Multimedia Systems and Applications*	3	-		√	
403329	Information Technology and Communication Management	3	-		√	
403339	Decision Support Systems	3	-	√		
403426	Network Systems Management	3	-		√	
403438	Business Intelligence Systems	3	-		√	
403498	Field Training	3	-			√
405311	Statistics for Business Students	3	-		√	

\*: Courses contain an implicit laboratory





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## B. Department Elective Requirements (9) Credit Hours

Course code	Course Name	Credit Hour	Prerequisite	Learning Type		
				Electronic	Blended	On Campus
401313	Operations and Production Management	3	401100			√
401338	Total Quality Management	3	401100		√	
403106	Information Resource Management	3	403107		√	
403307	Human Resource Information Systems	3	403107		√	
403309	Information Systems Management	3	403107		√	
403404	Strategic Information Systems	3	403107		√	
403499	Graduation Project	3	401111 + Pass 90 Hours			√
405102	Macroeconomic principles	3	-		√	

## Fifth: Free Elective Requirements (03) Credit Hours

The students studies a free course offered by the university with (3) credit hours



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## Advisement Plan for obtaining a bachelor's degree in Management Information Systems

### First Year

#### First Semester

Course Number	Course Name	Credit Hours	Prerequisite
401100	Principles of Management	3	-
403107	Principles of Management Information Systems	3	-
405101	Principles of Microeconomics	3	-
-	Compulsory university requirement	1	-
-	Compulsory university requirement	2	-
-	Elective University Requirement	3	-
Total			15

#### Second Semester

Course Number	Course Name	Credit Hours	Prerequisite
402101	Principles of Accounting (1)	3	-
403100	Introduction to Information Technology	3	-
403105	Office Management and Automation Systems	3	-
403129	E-commerce	3	-
405311	Statistics for Business Administration Students	3	-
-	University Compulsory Requirements	2	-
-	University Compulsory Requirements	1	-
Total			18



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## Second Year

### First Semester

Course Number	Course Name	Credit Hours	Prerequisite
401109	Principles of Marketing	3	-
401115	Mathematics for Business Students	3	-
403108	Programming for Business Students	3	-
403201	Advanced Management Information Systems	3	-
403231	Knowledge Management	3	-
-	University Compulsory Requirements	1	-
-	University Compulsory Requirements	2	-
Total			18

### Second Semester

Course Number	Course Name	Credit Hours	Prerequisite
401111	Research Methods	3	-
401340	Quantitative Methods in Management	3	-
403203	Electronic Governance	3	-
403303	Contemporary Issues in Information Systems	3	-
-	University Elective Requirement	3	-
Total			15



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## Third Year

### First Semester

Course Number	Course Name	Credit Hours	Prerequisite
403213	Databases for Business	3	403100
403329	Information and Communication Technology Management	3	403107
403339	Decision Support Systems	3	403107
405202	Principles of Financial Management	3	401100+402101
-	University Elective Requirement	3	-
-	Department Elective Requirement	3	-
Total			18

### Second Semester

Course Number	Course Name	Credit Hours	Prerequisite
403212	Social Media	3	-
403306	Project Management	3	403107
403320	Multimedia Systems and Applications	3	403100
403338	Business Intelligence Systems	3	403231
-	University Compulsory Requirements	3	-
-	Department Elective Requirement	3	-
Total			18





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## Fourth Year

### First Semester

Course Number	Course Name	Credit Hours	Prerequisite
401424	Computer Applications in Business	3	-
403209	Legislation and Ethical Responsibilities for Information Systems	3	403107
403426	Network Systems Management	3	403329
-	Department Elective Requirement	3	-
-	University Elective Requirement	3	-
Total			15

### Second Semester

Course Number	Course Name	Credit Hours	Prerequisite
403310	Web Design for E-Commerce	3	403100
403313	Information Systems Analysis and Design	3	-
403498	Field Training	3	Pass 90 Hours
-	Free Elective Course	3	-
-	University Elective Requirement	3	-
Total			15



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## Courses Description

### Faculty Compulsory Requirements ( 21 Credit Hours)

Course Number	: 401100
Course Title	: Principles of Management
Credit Hours	: 3
Prerequisites	: -

Management principles encompass a broad spectrum of concepts integral to the effective operation of organizations. The evolution of management principles, their characteristics, and functions are pivotal aspects of understanding the foundations of modern management. Additionally, this material aims to provide a general overview of public and private projects, their legal forms, primary functions, and a brief exploration of the evolution of managerial thought.

Course Number	: 401115
Course Title	: Mathematics for Business Students
Credit Hours	: 3
Prerequisites	: -

Focuses on the essential mathematical methods required for addressing business challenges. The content encompasses a range of topics related to the fundamentals of business mathematics, including a review of algebra, applications of equations and inequalities, graphical representation of functions, quadratic and exponential functions, logarithmic functions, financial mathematics, matrix algebra, and geometrically solving linear programming problems, as well as probability.



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**Course Number** : 402101  
**Course Title** : Principles of Accounting (1)  
**Credit Hours** : 3  
**Prerequisites** : -

**Study the comprehension of accounting equations and their practical applications. It encompasses topics such as recording accounting transactions, inventory reconciliations for revenues and expenses, the accounting cycle, accounting treatment of merchandise operations, and the preparation of primary financial statements.**

**Course Number** : 403107  
**Course Title** : Principles of Management Information Systems  
**Credit Hours** : 3  
**Prerequisites** : -

**This course aims to highlight the integration of technology and management in a business context. It covers the fundamentals of designing and developing information systems, which help enhance organizational performance. The course includes topics such as information systems and organizations, types of information systems, databases, data analysis, as well as information technology and communications. Through studying this course, students will acquire the ability to analyse information needs and use technology to support management and make informed decisions. This course also helps them understand the challenges and opportunities that arise in the rapidly changing business world and enables them to deal with it successfully in an advanced information environment.**

**Course Number** : 405101  
**Course Title** : Principles of Microeconomics  
**Credit Hours** : 3  
**Prerequisites** : -

**This course includes the study of the fundamental concepts of economics, including the definition of economics, the economic problem, the relationship of economics to other sciences, different economic systems, supply and demand, equilibrium, elasticity, consumer behavior, utility theory, and indifference curves, production and costs, various types of markets, and factors of production markets.**



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**Course Number** : 405202  
**Course Title** : Principles of Financial Management  
**Credit Hours** : 3  
**Prerequisites** : 401100 + 402101

The course aims to provide students with concepts and knowledge that help them understand the financial problems facing business establishments in their various forms, and expand their understanding of the work of the financial manager and the concept of financial management and the development of its activities over time, as well as understanding the relationship of financial management with the rest of the other departments within the establishment and the surrounding environment. The course also aims to provide students with the necessary skills that enable them to analyze the financial position of the facility, identify sources of financing in its various short-, medium- and long-term forms, compare between them, and choose the best one. The goal also extends to include the skills necessary to evaluate short-term investments (current assets) and long-term investments (capital assets), compare between them and choose the best ones, as well as use quantitative models to predict the financial failure of the facility.

**Course Number** : 401109  
**Course Title** : Principles of Marketing  
**Credit Hours** : 3  
**Prerequisites** : -

This academic study conducts an in-depth analysis of the foundational principles and concepts of marketing, focusing on its definition and the evolution of its conceptual framework. The exploration extends to the marketing environment, elucidating the extent of its influence on the marketing process.





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## Compulsory Department Requirements ( 72 Credit Hours):

**Course Number** : 401111  
**Course Title** : **Research Methods**  
**Credit Hours** : 3  
**Prerequisites** : 405311

This course explores the methodologies for conducting scientific research, emphasizing the study and collection of data from various sources. It covers diverse methods for gathering information, various techniques for presenting data in an analytically accessible manner, and the study of statistical methods for data analysis. The course also delves into specific statistical methods for analyzing data to derive meaningful results. Additionally, it provides guidance on crafting a scientific research report, addressing both its form and content.

**Course Number** : 401412  
**Course Title** : **Quantitative Methods in Management**  
**Credit Hours** : 3  
**Prerequisites** : 401115

This course aims to empower students with knowledge of a range of concepts and methods through a detailed exploration of fundamental concepts in quantitative methods. These methods include linear programming, decision theory, transportation problems, allocation, and forecasting.

**Course Number** : 401424  
**Course Title** : **Applications of Computers in Business**  
**Credit Hours** : 3  
**Prerequisites** : -

Concepts and principles that prepare the student for the use of efficient and commonly used computer tools in the business sector, such as word processors, spreadsheets, email, and web browsing. The student is also introduced to basic computer concepts and terms, hardware components, and computerized information systems in the process of supporting managerial decision-making, as well as interactive presentations. This positively reflects on training and practical application to equip the student with the necessary skills and experiences in organizations:



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**Course Number** : 403100  
**Course Title** : **Introduction to Information Technology**  
**Credit Hours** : 3  
**Prerequisites** : 314121

**This course serves as a precursor to computing, designed to equip students with the ability to comprehend computer systems utilized in any organization or work environment. It covers the terminology of information and communication technology, spanning hardware, software, storage systems, computer networks, the internet, the World Wide Web, and applications based on information and communication technology. The course will elucidate how information technology affects both organizations and society.**

**Course Number** : 403105  
**Course Title** : **Office Management Systems and Automation**  
**Credit Hours** : 3  
**Prerequisites** : 311213

**This course aims to equip students with a set of concepts enabling them to use decision support software in business decision-making and build computer applications that deal with business management topics. The material presents concepts and principles that establish a foundation for students to use efficient and commonly used computer tools in the business sector. This includes word processors, spreadsheets, email, and web browsing applications. Additionally, students become familiar with fundamental computer concepts and terminology, hardware components, and computerized information systems that support decision-making processes. The course also covers presentations and their interactive use, positively influencing training and practical application to provide students with the necessary experiences and skills in organizations.**



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**Course Number** : 403108  
**Course Title** : **Programming for Business Students**  
**Credit Hours** : 3  
**Prerequisites** : 403100

This course aims to equip students with the skills to design and write highly efficient programs using visual programming environments. Through this, students will learn to design interactive systems tailored for the online business environment. The topics covered in the course include the fundamentals of programming, models, model properties, user interactions, menus, creating the final executable program, designing user interfaces for various applications using different components, defining variables and constants using various data types available in the visual programming language, utilizing symbols and its associated libraries, and developing applications with multiple models.

**Course Number** : 403129  
**Course Title** : **E-commerce**  
**Credit Hours** : 3  
**Prerequisites** : 311220

This course aims to study the information technology related to the fundamentals of e-commerce and its applications in various sectors and industries. The topics covered in the course include: opportunities in the business environment, e-commerce strategies and the challenges it faces, the elements and structure of e-commerce, its technological and business motivations, competitive advantage, modern technologies and distribution channels, pricing and advertising in the electronic environment, electronic payment methods, and security aspects and e-commerce security techniques.

**Course Number** : 403201  
**Course Title** : **Advanced Management Information Systems**  
**Credit Hours** : 3  
**Prerequisites** : 403107

This course aims to deepen students' understanding of the pivotal role of technology in supporting managerial operations and decision-making. The focus of the material is on imparting skills to students in the analysis, design, and development of advanced information systems. This includes techniques for complex data analysis, applications of artificial intelligence, and machine learning. The curriculum also encompasses the study of advanced application design, information security, and IT project management. The course





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aims to equip students with the tools and knowledge to comprehend and apply advanced technologies in data analysis, strategic decision-making, and the development of information systems that meet the needs of contemporary organizations.

Course Number : 403203  
Course Title : E-Government  
Credit Hours : 3  
Prerequisites : 314121

This course aims to transform regular administrative work from manual management into computer-based management by relying on powerful information systems that assist in making administrative decisions quickly and cost-effectively. Electronic management can encompass both internal and external communications for any organization. The objective is to introduce full transparency and accountability, ultimately leading to the enhancement of electronic management within any organization. The course includes the development of general management, reduction of paperwork, service improvement, mobility reduction, information delivery at any time and place, easy information access, improved economic competitiveness, and the use of the internet for global trade.

Course Number : 403209  
Course Title : Legislation and Ethical Responsibility for Information Systems  
Credit Hours : 3  
Prerequisites : 403107

This course covers the fundamentals of decision-making and the necessary methods for making decisions that take into account the ethical aspects of information systems issues. Topics studied in this course include the interactions between administrative, legislative, and legal systems, information confidentiality, the rights and responsibilities of those involved in the information systems and internet environment, freedom of information access, economic impacts of the computer society, intellectual property laws related to computer issues, and the ethical responsibility of computer science experts. This course provides students with an introduction to computer ethics and the benefits of information technology, emphasizing the protection of intellectual property and the principle of proper information use.





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**Course Number** : 403212  
**Course Title** : **Social Media**  
**Credit Hours** : 3  
**Prerequisites** : 403107

**This course is designed to introduce students to the fundamentals and applications of social media in the digital age. The focus of the material is to provide a comprehensive understanding of the concept, importance, and uses of social media platforms, including but not limited to Facebook, Twitter, Instagram, LinkedIn, and others. The curriculum includes a study of how these platforms are used for personal and professional communication, as well as for developing marketing skills and managing brands through social media. The course also covers the analysis of social media data and interactions on these platforms. Additionally, the material emphasizes ethical considerations and professional guidelines in the use of social media. The course aims to empower students to make optimal use of these tools in the contemporary digital environment.**

**Course Number** : 403213  
**Course Title** : **Databases for Business**  
**Credit Hours** : 3  
**Prerequisites** : 403100

**This course aims to equip students with the necessary skills through practical applications of database theory in a business environment. It includes various case studies of databases used in business contexts. Topics covered in the course encompass the role of databases in enterprises, database management and tools, internet technology and its associated databases, synchronization, data recovery, and data protection. The practical aspect of this course is conducted using either Oracle or SQL systems in computer laboratories.**



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**Course Number** : 403231  
**Course Title** : **Knowledge Management**  
**Credit Hours** : 3  
**Prerequisites** : 403107

**This course aims to introduce students to the concepts of knowledge management from various perspectives. The course covers topics including types and forms of knowledge, knowledge processes, the knowledge management lifecycle, knowledge management strategies, organizational learning, knowledge discovery systems, knowledge ownership systems, knowledge-sharing systems, and knowledge application systems. It also explores the evaluation of the impact of knowledge management on business enterprises, the role of intellectual capital in achieving competitive advantage for organizations, and the analysis and assessment of tangible and intangible knowledge assets.**

**Course Number** : 403303  
**Course Title** : **Contemporary Issues in Information Systems**  
**Credit Hours** : 3  
**Prerequisites** : 403107

**This course covers a range of contemporary topics in the field of Management Information Systems (MIS). It sheds light on selected issues through discussion, analysis, and research, allowing students to understand the modern trends in the field of MIS. Students will also grasp the significance of the evolving developments in this branch of knowledge and their impact on various aspects in the business world.**

**Course Number** : 403305  
**Course Title** : **Project Management**  
**Credit Hours** : 3  
**Prerequisites** : 403107

**This course aims to provide students with the fundamentals of program project management, starting from the project requirements phase through to successful delivery. The topics covered in this course include: the optimal use of information technology resources for developing information systems, relevant technical, managerial, organizational, and tactical concepts, software management and project proposals, program project planning and tool development, scheduling, resource management, program project monitoring, and effective management of such projects.**



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**Course Number** : 403310  
**Course Title** : Designing E-commerce Websites  
**Credit Hours** : 3  
**Prerequisites** : 403100

**This course is designed to teach students how to use HTML (Hypertext Markup Language) to develop and construct websites, with a specific focus on e-commerce applications. Additionally, students will be introduced to modern software and technologies used in web development, including programs like Front Page and Flash, as well as scripting languages such as VBScript, JavaScript, Perl, and CGI. The course empowers students to build their own websites on the internet using various services and tools available on the web. This includes reserving a dedicated space on a web server, registering a domain name on the internet, and utilizing FTP (File Transfer Protocol) techniques to transfer designed files to the website. The curriculum covers aspects of designing images, animations, adding audio elements, and incorporating video files.**

**Course Number** : 403313  
**Course Title** : Analysis and Design of Information Systems  
**Credit Hours** : 3  
**Prerequisites** : 314320

**This course introduces the process of analyzing, structuring, and developing information systems in business organizations. The topics covered in this course include the definition of the concept of systems analysis and design, the role of systems analysts, the system development life cycle, system analysis definition, system requirements determination, user studies, feasibility studies, system study, and design, programming, and development control processes, data flow diagrams, process definition, and user interface design.**

**Course Number** : 403320  
**Course Title** : Multimedia Systems and Applications  
**Credit Hours** : 3  
**Prerequisites** : 403100

**This course aims to educate students on the principles of multimedia systems and their inherent characteristics. The curriculum delves into the properties of audio, imagery, video, and their applications in information technology. The course encompasses topics such as media data formats, perception media, representation media, presentation media, storage media, information and exchange media, multimedia applications, synchronous and asynchronous data transmission.**





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<b>Course Number</b>	: 403329
<b>Course Title</b>	: <b>Information Technology and Communication Management</b>
<b>Credit Hours</b>	: 3
<b>Prerequisites</b>	: 403107

**This course aims to familiarize students with the fundamentals and concepts of Information Technology and Communications (ITC) management within the context of modern enterprises and organizations. The course focuses on developing the necessary skills and knowledge for planning and implementing ITC strategies to achieve business objectives, enhance efficiency, and competitiveness. The content includes the study of the fundamentals of information technology and communication, analyzing enterprise technology needs, and selecting and implementing suitable technological solutions. Additionally, the course emphasizes the management of technology projects, the development of policies and security procedures for data protection and information, and enhancing students' abilities to interact with technical teams and coordinate technological changes effectively. It reflects the significance of information technology and communications in the modern business environment and enables students to apply effective technology strategies to enhance organizational performance.**

<b>Course Number</b>	: 403339
<b>Course Title</b>	: <b>Decision Support Systems</b>
<b>Credit Hours</b>	: 3
<b>Prerequisites</b>	: 403107

**This course aims to introduce students to decision-making strategies and the supporting systems. It covers the following topics: concepts in decision support systems, decision support frameworks, management models and methods, decision system characteristics and specifications, decision support components, decision support software and operating equipment, building decision support systems, decision support system development tools, sets of decision support systems, decision support system implementation, distributed decision support systems, expert systems and decision support, practical applications for solving simple and complex decision support problems.**





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**Course Number** : 403426  
**Course Title** : Network Systems  
Management  
**Credit Hours** : 3  
**Prerequisites** : 403107

**This course aims to provide students with an understanding of network systems management. It covers a range of topics, including the fundamentals of network systems, network architecture, network design and planning, network security, network performance optimization, and the management of network infrastructure. The course focuses on developing the necessary skills and knowledge to effectively manage and maintain network systems within modern organizations.**

**Course Number** : 403438  
**Course Title** : Business Intelligence Systems  
**Credit Hours** : 3  
**Prerequisites** : 403231

**This course is designed to leverage the available data for decision support. Various operational systems, including administrative, financial, customer relationship management systems, and others, generate a substantial amount of data that is underutilized for analysis, statistics, and decision support. Integrating data from multiple sources to provide a unified and comprehensive view of enterprise data is not an easy task and requires data processing. The decision-making process demands up-to-date and near-real-time data. Advanced software for building data warehouses and intelligent systems for numerous government departments and private sector companies in the region will be discussed. This will enable them to leverage information technology tools to overcome challenges in their work.**

**Course Number** : 405311  
**Course Title** : Statistics for Business Administration Students  
**Credit Hours** : 3  
**Prerequisites** : -

**This course covers the study of statistics, methods for handling both population and sample data, sampling techniques, measures of central tendency, measures of dispersion, correlation, regression analysis, probability theory, probability distributions, random variables, standard scores, time series, estimation, and hypothesis testing. This is achieved through the application of all the mentioned concepts to practical business and investment models.**



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## Elective Department Requirements ( 9 Credit Hours):

Course Number	: 401313
Course Title	: <b>Operations and Production Management</b>
Credit Hours	: 3
Prerequisites	: 401100

This compilation of information equips students with an understanding of the fundamental concepts associated with the management of industrial and service operations. It includes monitoring key developments in operations management, exploring the areas of benefit from them. Additionally, it introduces students to the concept of production management and production processes, sheds light on production activities, and aids in comprehending the theory underpinning production and operations management. The course covers various topics, including qualitative methods of forecasting, techniques for selecting project sites, strategic energy planning, internal factory layout and its types, comprehensive production planning, introduction to operational processes and their scheduling, quality control, maintenance management, and the study of practical cases in the field.

Course Number	: 401338
Course Title	: <b>Total Quality Management</b>
Credit Hours	: 3
Prerequisites	: 401100

This course introduces students to the concepts, tools, management, planning for product quality, and product control, in addition to total quality management in terms of its concept, principles, application requirements, application steps, and quality circles. As well as the international quality management system (ISO), and the Japanese experience in the field of total quality management.

Course Number	: 403106
Course Title	: <b>Information Resource Management</b>
Credit Hours	: 3
Prerequisites	: 403107

This course provides the fundamental concepts of information systems that are essential to organizations in the digital age. The course will cover core topics of information systems, including information processing systems, e-commerce, hardware, software, data



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management, telecommunications, the Internet and wireless technologies. The impact of information systems to business strategy and organizational design will be examined. Ethical and social issues related to information systems will be explored.

**Course Number** : 403307  
**Course Title** : **Human Resource Information Systems**  
**Credit Hours** : 3  
**Prerequisites** : 403107

The course **Human Resource Information Systems (HRIS)** aims to introduce students to the concepts and tools of information systems used in managing human resources in organizations. The course covers various topics, such as: fundamentals of Human Resource Information Systems, functions of Human Resource Information Systems, design and implementation of Human Resource Information Systems, human resource data management, cybersecurity for Human Resource Information Systems, and the future of Human Resource Information Systems.

**Course Number** : 403309  
**Course Title** : **Information Systems Management**  
**Credit Hours** : 3  
**Prerequisites** : 403107

The **Information Systems Management** course aims to introduce students to the concepts and tools of information systems management in organizations. The course covers various topics, such as: basics of information systems management, information systems lifecycle, data management, cybersecurity for information systems, information systems project management, and the ethical implications of information systems.

**Course Number** : 403404  
**Course Title** : **Strategic Information Systems**  
**Credit Hours** : 3  
**Prerequisites** : 403107

Students examine the ability of information technology to enhance the quality and efficiency of decision making by improving the various elements of the decision-making process and making data collection more cost effective. They also discover what every manager needs to know to leverage information systems for the design and implementation of business models in an organization.





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**Course Number** : 403499  
**Course Title** : **Graduation Project**  
**Credit Hours** : 3  
**Prerequisites** : 401111 + Pass 90 Hours

**The aim of the graduation project in Management Information Systems is to apply the knowledge and skills acquired during the studies to a real problem in the business field. This project provides the student with an opportunity to integrate skills in data analysis, system design, and project management to solve a complex problem and improve the organization's processes by applying theoretical knowledge to a practical problem, and enhancing data analysis skills and system design skills.**

**Course Number** : 405102  
**Course Title** : **Macroeconomic principles**  
**Credit Hours** : 3  
**Prerequisites** :

**The fundamental concepts of economics include the definition of economics, the economic problem, the relationship of economics with other sciences, different economic systems, supply and demand, equilibrium, elasticity, consumer behavior, utility theory, and indifference curves, production and costs, different types of markets, and factor markets.**