University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form PH.D

University : Mosul **College : Management and Economics** **Department :Management Information Systems**

Course name and academic level .1
PhD Analysis and Design **Systems**
Course code .2
AEMI23_703
Semester/Year .3
2026-2025
Date this description was prepared .4
2025/8/23
Available forms of attendance .5
(Mandatory attendance for (15 weeks
(Number of study hours (total) / Number of units (total .6
hours/3 units 3
one name is mentioned) and Name of the course supervisor (if more than .7 .academic title

University of Mosul
College of Administration and Economics
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Graduate Studies

:Name: Dr. Ahmed Zuhair Tawfiq / Assistant Professor Email

ahmed_zuhair@uomosul.edu.iq

8. Course objectives

Equipping students with the knowledge necessary to study and analyze user dentify needs and usage, and to i information request and usage behaviors among different categories of .beneficiaries

- Defining the concept of systems as a basis for analyzing and designing information systems
- Understand how to use a systems approach to address .problems information systems
- Increase the student's ability to think analytically and synthetically

Methods of building, developing, and evaluating systems in information institutions and determinants of implementation success, focusing on the .system development life cycle

9. Teaching and learning strategies

Teaching strategies (lecture, discussion, problem solving, (projects, brainstorming

Learning strategies (inference, (switching ideas, providing examples

10. Course structure

wee	watche	Required	Name of unit	Learning method	Evaluatio

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n method		or topic	learning outcomes	s	k
y and Dail weekly duties	Discussion method	**Introduction to Systems Development**	Providing students with the ability to analyze systems and track administrative problems using scientific and applied means and .methods	3	1
Daily and ly week duties	Project method	**Planning to build information systems concept,) approaches, methodologies and ، (techniques**	Be able to . identify and diagnose the problem and recognize functional relationships and related .information	3	**2**
Reports	practical demonstration method	**Problem definition and feasibility study stage**	Discover different alternatives, compare them, and then choose .the best one	3	**3**
Daily and weekly duties	Discussion method	**System Analysis Detailed Study Objectives,)**	The ability to establish working	3	**4**

		Elements, (Requirements	relationships with stakeholders in the .ystems		
Daily and monthly exams	Project method	**Design requirements) (selement**	Learn about the methods of designing these systems and the importance of management information .systems	3	**5**
Reports	practical demonstratio n method	**Implementing and testing the new system**	Learn information systems analysis and design techniques	3	**6**
Daily and weekly duties	Discussion method	**System transformation strategies**	Providing students with the ability to analyze systems and track inistrativadm e problems using scientific and applied means and .methods	3	**7**
Daily and monthly	Project method	**Operation and evaluation of the new**	Be able to identify and diagnose the	3	**8**

exams		**system**	problem and identify functional relationships and related .information		
tsRepor	practical demonstratio n method	**Information Systems Maintenance Operations Management**	Discover different alternatives, compare them, and then choose .the best one	3	**9**
Daily and weekly duties	Discussion method	**Approaches and methodologies for developing information systems**	The ability to establish working relationships with stakeholders in the .system	3	**10**
Daily and monthly exams	Project method	**Rapid approaches and methodologies**	Learn about the methods of designing these systems and the importance of management information .systems	3	**11**
Reports	practical demonstration method	**Software package applications**	Learn information systems analysis and design techniques	3	**12**

Daily and weekly duties	Discussion method	**-Object oriented information systems development**	Providing students with the ability to analyze systems and track administrative problems using scientific and applied means and methods.	3	**13**
Daily and monthly exams	Project method	**Information Systems Analysis and Design Techniques**	Be able to identify and diagnose the problem and identify functional relationships and related information.	3	**14**
		a test	.	3	**15**

Course Evaluation and Grade Divisions .11	
grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc. The	
Learning and teaching resources .12	
	(Required textbooks (methodology if any
Lataei, Muhammad Abd, et al.,	(urcesMain References (So

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Information Systems ،2020 Analysis and Design	
Hussein, Laith Saadallah, 2020, Information Systems Analysis and Design, First Edition, ics House for Publishing Academ .and Distribution, Amman, Jordan	Recommended supporting books and (...references (scientific journals, reports
Satzinger , John W. ، Kendall, Kenneth E., Kendall, Julie E., 2020, Systems Analysis and Design, Tenth Editio Pearson Education Limited . Valacich , Joseph S., George, Joey F., 2017, Modern Systems Analysis and Design, 8th Edition, Pearson Education Limited .	Electronic references, websites
%20	Curriculum update rate

اسم وتوقيع صاحب المقرر

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form PH.D

University : Mosul **College : Management and Economics** **Department :Management Information Systems**

1. Course Name:
Technological change Management/ PH.D
2. Course Code:
AEMI25−703
3. Semester / Year:
2026-2025
4. Description Preparation Date:
26/8/2025
5. Available Attendance Forms:
In the Classroom
6. Number of Credit Hours (Total) / Number of Units (Total)
45 hours
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Huda Abdel Rahim Hussein Email: Huda-abdulrahem@uomosul.ed.iq
8. Course Objectives

Course Objectives	**.1The objective of teaching this course is to provide students with knowledge in the field of change, especially in light of the rapid**

	transformations in the field of information technology. **.2The student will gain field experience in the details of technological change and real-life situations that require change in a manner that suits the organization's interests.**

9. Teaching and Learning Strategies

Strategy	Presenting and discussing case studies related to technological change, evaluating them, and trying to benefit from them. Students learn the method of dialogue, discussion and brainstorming to reach a deeper understanding of scientific vocabulary Employing information systems in line with labor market strategies..

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction to technological change, its importance, objectives, and stages	lecture and discussion	Ask and discussion
2	3		Forces influencing technological change management	Lecture and discussion	Ask and discussion
3	3		Readiness for technological change, the concept of readiness, its models and types	lecture and discussion	Ask and discussion
4	3		Technological empowerment: its concept and forms within the framework of technological change	lecture and discussion	Ask and discussion
5	3		Social engineering in the context of technological	Lecture and discussion	Ask and discussion

			change		
6	3		Resistance to technological change and forms of resistance	Lecture and discussion	Ask and discussion
7	3		Digital sustainability and its relationship to technological change	Lecture and discussion	Ask and discussion
8	3		Ethics of Technological Change	Lecture and discussion	Ask questions and discuss
9	3		The negative effects of technological change include: change anxiety and psychological stress.	Lecture and discussion	Ask questions and discuss
10	3		The negative effects of technological change include: low levels of information security.	Lecture and discussion	Ask questions and discuss
11	3		Environmental Impacts of Technological Change (Green Computing)	lecture and discussion	Ask questions and discuss
12	3		The Effect of Technological Change on Digital Behavio	lecture and discussion	Ask questions and discuss
13	3		Digital culture and its relationship to technological change	Lecture and discussion	Ask questions and discuss
14	3		The Knowledge Gap Resulting from Technological Change and the Role of Management Information Systems in Mitigating It	Lecture and discussion	Ask questions and discuss

15	3		Algorithm-Driven Technological Change and Its Impact on Business and Decision Transparency	Lecture and discussion	Ask questions and discuss

11.Course Evaluation

1- Final exams 70%
2- monthly tests10%
3- assignments 10%
4- class contribution 10%

12.Learning and Teaching Resources

Göçeri, K., & Koç, S. (2025). Building a Technological Change Index for Developed and Developing Countries: A New Multidimensional Measure. Journal of Mehmet Akif Ersoy University Economics and Administrative Sciences Faculty, 12(1), 306–328

How Information Technology (IT) is shaping consumer behavior in the digital age (2024)

Mohammad Hossein Jarrahi, Agorithmic Management on Employee Work context, (2021)

Big Data & Aociety

Curriculum Update Rate 20

أ.م.د. رمضان محمود الابراهيم
رئيس قسم نظم المعلومات الادارية

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

13.Course Name:
Information Systems Project Management – PH.D students
14.Course Code:
AEMI24_606
15.Semester / Year:
Second course 2025-2026
16.Description Preparation Date:
15/9/2025
17.Available Attendance Forms:
In the Classroom
18.Number of Credit Hours (Total) / Number of Units (Total)
45 hours /3 Units
19.Course Objectives
• Develop and manage complex MIS projects using advanced project management methodologies. • Align technology projects with strategic organizational goals. • Use data-driven decision-making tools to manage project performance. • Address challenges related to risk, change, and quality in technology-driven projects. • Conduct and apply scholarly research in the field of project management within the MIS domain.
20. Learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies - Daily oral tests
21.Learning Strategies
The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and

expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject.

22.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	• Explain what a project is, provide examples of IT projects, list various attributes of projects, and describe constraints of project management • Define project management and discuss key elements of the project management framework, including project stakeholders, the project management knowledge areas, common tools and techniques, and project success • Discuss the relationship between project, program, and portfolio management and the contributions each makes to enterprise success	Introduction to Project Management	Lecture	Assignments and Discussions
2	3	• Define the systems view of project management and how it applies to information technology (IT) projects • Distinguish between project and product life cycles • Discuss the unique attributes and diverse nature of IT	The Project Management and Information Technology context	Lecture	Assignments and Discussions

		projects			
3	3	• Describe the five project management process groups, the typical level of activity for each, and the interactions among them. • Relate the project management process groups to the project management knowledge areas. • Discuss how organizations develop information technology (IT) project management methodologies to meet their needs.	The Project Management Process groups	lecture	Assignments and Discussions
4	3	• Describe an overall framework for project integration management as it relates to the other project management knowledge areas and the project life cycle • Discuss the strategic planning process and apply different project selection methods • Explain the importance of creating a project charter to formally initiate projects	Project Integration Management	lecture	Assignments and Discussions
5	3	• List key reasons why good project scope management is important • Describe the process of planning scope management. • Discuss methods for collecting and documenting requirements to meet stakeholder needs and	Project Scope Management	Lecture	Assignments and Discussions

		expectations.			
6	3	• Illustrate the importance that project schedules and good project schedule management can have in helping to make projects successful • Discuss the process of planning schedule management • Define activities as the basis for developing project schedules	Project Schedule Management	lecture	Assignments and Discussions
7	3	• Explain basic project cost management principles, concepts, and terms • Describe the process of planning cost management • Discuss different types of cost estimates and methods for preparing them	Project cost Management	lecture	Assignments and Discussions
8	3	• Develop a justification for project quality management and its importance in achieving project success for information technology (IT) products and services • Discuss the importance of managing quality and quality assurance • Explain the main outputs of the quality control process	Project Quality Management	lecture	Assignments and Discussions
9	3	• Explain the importance of good resource management on projects.	Project resource Management	lecture	Assignments and Discussions

		• Define project resource management and understand its processes. • Summarize key concepts for managing people by understanding theories of motivation, influence, and power.			
10	3	• Discuss the role of soft skills in IT project management, and highlight the importance of good communications as one means of achieving project success. • Review key concepts related to communications. • Explain the elements of planning project communications and how to create a communications management plan.	Project communications management	lecture	Assignments and Discussions
11	3	• Explain the concept of risk as it relates to project management, and list the advantages of managing project risks according to best practices. • Discuss the elements of planning risk management and the contents of a risk management plan. • List common sources of risks on information technology (IT) projects	Project risk Management	lecture	Assignments and Discussions

12	3	• Explain the importance of project procurement management and the increasing use of outsourcing for information technology (IT) projects. • Describe the work involved in planning procurements for projects, including determining the proper type of contract to use. • Discuss how to conduct procurements and strategies for obtaining seller responses, selecting sellers.	Project Procurement management	lecture	Assignments and Discussions
13	3	• Explain the importance of project stakeholder management throughout the life of a project. • Discuss the process of identifying stakeholders, how to create a stakeholder register. • Describe the contents of a stakeholder engagement plan	Project Stakeholder Management	lecture	Assignments and Discussions
14	3	• Define the principles of sustainability and their relevance to project management. • Analyze how innovation can enhance sustainable project outcomes. • Evaluate strategies for integrating sustainability into the project life cycle.	Sustainability and Innovation in Project Management	lecture	Assignments and Discussions

15	3	-	Exam	lecture	-

23. Course Evaluation

1. Final exams 70%
2. Monthly exam 10%
3. Assignments 10%
4. Class contribution 10%

24. Learning and Teaching Resources

Main References (Sources)	Schwalbe, K. (2019). InformatIon technology Project management. In *Cengage* (ninth edit).
Recommended supporting books and references (scientific journals, reports...)	
Curriculum update rate	10%

أ.م.د. رضا محمود الابراهيم
رئيس قسم نظم المعلومات الادارية

د. بسام عبد الرحمن يوسف

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

1. Course name and academic level
Research methods/ Ph.D
Course code2.
AEMI25_705
3. Semester/Year
First course 2025-2026
4. Date this description was prepared
26/8/2025
5. Available forms of attendance
Attendance in the classroom
6. (Number of study hours (total) / Number of units (total
30 Hours
7. Course objectives
This course aims to empower researchers with methodological critique tools and deepen their ability to address complex research issues by consolidating skills in identifying knowledge gaps and constructing advanced hypothetical models. It also focuses on developing analytical competence in employing advanced inferential statistical methods for data interpretation, ensuring the production of rigorous scientific research characterized by originality and innovation that meets the publication standards of prestigious international peer-reviewed journals."

8.learning methods

- Delivering a lecture
- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

9. Teaching and learning strategies

The course relies on a combination of interactive strategies that enhance students' understanding of theoretical concepts and their practical applications. These include lecture methods supported by visual aids such as Data Show projectors, classroom discussions to encourage critical thinking, and cooperative learning through group activities. Additionally, homework assignments and short quizzes are used as tools to promote self-learning and continuous monitoring of students' academic progress.

10. Course structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of Scientific Research, Its Types (Exploratory, Descriptive, Experimental), and Its Importance in Administrative Sciences. Applied Research and Basic	Introduction to Scientific Research: Definition, Importance, and Fundamentals of Scientific Research	Theoretical lecture, presentation, interactive discussion	Short quiz, class participation, homework assignment

2		Research philosophy and theory development methodologies, Methodological selection and Research strategies	Philosophies and research approaches	Theoretical lecture, presentation, interactive discussion	Short quiz, class participation, homework assignment
3	2	How to Identify the Research Problem and Formulate Research Questions	Formulating the Research Problem	Theoretical explanation, analysis of real examples	practical example on problem formulation
4	2	How to Search Scientific Sources, Identify the Research Gap, and Formulate the Theoretical Framework Theory in scientific research	Literature Review and Research Model	Lecture, reviewing models, training on using databases	Example on analyzing and summarizing previous studies
5		Research design Quantitative and Qualitative Methods, Longitudinal and Cross-Sectional Studies, Experimental and	Research Design	Discussion of real examples of Research Design	Short quiz, assignment on selecting the appropriate methods

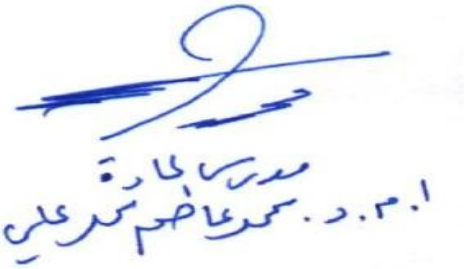
		Descriptive Designs			
6	2	How to Formulate and Test Hypotheses in Scientific Research	Research Hypotheses	Discussion of real examples for hypothesis formulation	examples on formulating hypotheses
7	2	Questionnaires, Interviews, and Observation as Data Collection Tools.	Data Collection Tools	Lecture with presentation of various data collection tools, practical applications, discussions	Preparing a questionnaire or an interview guide
8	2	Sampling Methods (Random, Stratified, etc.) and Determining the Appropriate Sample Size	Population and Research Samples	Theoretical explanation, practical examples, discussion	Practical example on determining samples
9	2	Using Qualitative Methods in Data Analysis (e.g., Content Analysis and Interview Analysis)	Qualitative Data Analysis	Lecture and example on analyzing qualitative data from a case study	Practical Example
10	2	Basics of Simple Statistical	Introduction to Statistical	Practical examples using	In-class test

		Analysis (Descriptive Statistics, Means, Percentages)	Analysis	SPSS or Excel to analyze simple data	
11	2	Hypothesis Testing How to Present and Interpret Research Results Clearly and Coherently	Hypothesis Testing	Lecture and practical examples	Discussion of examples for presenting and interpreting results.
12	2	General Structure of Research Reports, How to Write the Introduction, Literature Review, Results, and Recommendations	Writing the Research Report	Presentation of report samples, practical training on report writing	Submission of a research report, oral feedback
13	2	Ethical Considerations in Conducting and Publishing Research, Plagiarism, and Intellectual Property Rights	Research Ethics	Discussion of real-life cases of research ethics violations	Open discussion
14	2	Preparing a Paper	Writing papers	How to choose appropriate	Open discussion

		for Publication		academic journals, peer-review procedures, and responding to reviewers' comments	and real-examples
15	2	Preparing a Paper for Publication	Writing papers	How to choose appropriate academic journals, peer-review procedures, and responding to reviewers' comments	Open discussion and real-examples

11. Course Evaluation and Grade Divisions	
1. Final exams 70% 2. Tests, activities, and submitted reports 30%.	
12. Learning and teaching resources	
Required textbooks	
(Main References (Sources	Ghauri, P., Grønhaug, K., & Strange, R. (2020). *Research methods in business studies*. Cambridge University Press.
Recommended supporting books and (...references (scientific journals, reports	Sekaran, U. and Bougie, R., (2016), Research methods for business: a skill-building approach, John Wiley & Sons

	Ltd
Electronic references, websites	
Curriculum update rate	10%



University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul | **College : Management and Economics** | **Department :Management Information Systems**

25.Course Name:
Databases/ PhD
26.Course Code:
AEMI26_706
27.Semester / Year:
First course 2025-2026
28.Description Preparation Date:
26/8/2025
29.Available Attendance Forms:
Attendance in the classroom
30.Number of Credit Hours (Total) / Number of Units (Total)
45 hours
31.Course Objectives
The course introduces students to the fundamental objective of databases, which is to focus on organization of data rather than on specific applications. Accordingly, the primary goal of the datab designer is to structure data in a manner that eliminates redundancy and allows for efficient retriev modification, and insertion without the problems that typically arise from data duplication. This achieved through the identification of three levels of abstraction or database models, known normalization forms. Database normalization refers to the process of organizing data structures to m closely reflect a natural classification, thereby enhancing data integrity and consistency.
32.learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources

- Case studies
- Daily oral tests

33.Learning Strategies

The main strategy adopted in delivering this course is to encourage students' active participation in preparing assignments and engaging in classroom discussions, while simultaneously enhancing and expanding their critical thinking skills. This is achieved through interactive classroom sessions and educational programs, as well as the presentation of selected case studies that incorporate theoretical explanations of the course content.

34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Introduction to Database Management Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Entity-Relationship (ER)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				ideas	
3	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	File Organization	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
4	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Data Warehouses, Data Mining, and Data Marts	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Data Warehouses, Data Mining	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

6	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	OLTP and OLAP	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
7	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Parallel and Distributed Databases	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Parallel and Distributed Databases	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
9	4	Clarification of concepts, support through	Database Security	Clarifying concepts,	Daily and weekly

		theoretical and real-world examples, posing questions, and discussion of ideas.		supporting with theoretical and practical examples, asking questions, discussing ideas	assignments, weekly reports, daily exams, weekly exams
10	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Database Security	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Data Silos and Data Lake	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	3	Clarification of concepts, support through theoretical and real-world examples, posing	Data Silos and Data Lake	Clarifying concepts, supporting with	Daily and weekly assignments, weekly

		questions, and discussion of ideas.		theoretical and practical examples, asking questions, discussing ideas	reports, daily exams, weekly exams
13	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Big Data		Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Artificial Intelligence and Data		Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Artificial Intelligence and Data	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				ideas	

35. Course Evaluation
1. Final exams 70% 2. Tests, activities, and submitted reports 30%

36. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Main References (Sources)	Introduction to Database Management System, Dr. Satinder Bal Gupta
Recommended supporting books and referen (scientific journals, reports...)	Database Management Systems, Raghu Ramakrishnan
Curriculum update rate	20%

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul	College : Management and Economics	Department :Management Information Systems

37.Course Name:
Intelligent information systems and decision support – Ph.D. students
38.Course Code:
AEMI24_601
39.Semester / Year:
First course 2025-2026
40.Description Preparation Date:
15/9/2025
41.Available Attendance Forms:
Attendance in the classroom
42.Number of Credit Hours (Total) / Number of Units (Total)
45 hours /3 Units
43.Course Objectives
• Provide students with in-depth knowledge of the concepts, components, and historical development of decision support systems and their role in the business environment. • Develop skills in analyzing complex problems and making effective decisions using quantitative tools and supporting information systems. • Enable students to build decision support models using tools such as sensitivity analysis, simulation, and DSS software. • Provide students with the ability to use data analysis tools, data mining, and neural networks to improve the effectiveness of managerial decisions. • Apply concepts and tools through applied projects or real-life case studies in the fields of management and industry.
44.Learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies

- Daily oral tests

45.Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject.

46. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	A deep understanding of the concept of decision support systems	Overview of Business Intelligence, Analytics, Data Science, and Artificial Intelligence: Systems for Decision Support	Lecture	Assignments and Discussions
2	3	Understand the role of information technology in decision support systems	Artificial Intelligence: Concepts, Drivers, Major Technologies, and Business Applications	Lecture	Assignments and Discussions
3	3	Understand the stages of decision making and the role of the support process in each stage	Nature of Data, Statistical Modeling, and Visualization	lecture	Assignments and Discussions
4	3	Understand the definition of decision support systems	Data Mining Process, Methods, and Algorithms	lecture	Assignments and Discussions
5	3	Understand the capabilities and characteristics of decision support systems	Machine-Learning Techniques for Predictive Analytics	Lecture	Assignments and Discussions
6	3	Understand the components of decision support systems	Deep Learning and Cognitive Computing	lecture	Assignments and Discussions
7	3	Understand the analysis and decision modeling processes	Text Mining, Sentiment Analysis, and Social Analytics	lecture	Assignments and Discussions
8	3	Understand business	Prescriptive Analytics:	lecture	Assignments

		performance management	Optimization and Simulation		and Discussions
9	3	Understand the concept of business intelligence	Big Data, Cloud Computing, and Location Analytics: Concepts and Tools	lecture	Assignments and Discussions
10	3	Understand the concept of data management	Robotics: Industrial and Consumer Applications	lecture	Assignments and Discussions
11	3	Understand the concept of using artificial intelligence	Group Decision Making, Collaborative Systems, and AI Support	lecture	Assignments and Discussions
12	3	Understand the role of collaboration in decision support systems	Knowledge Systems: Expert Systems, Recommenders, Chatbots, Virtual Personal Assistants, and Robo Advisors	lecture	Assignments and Discussions
13	3	Understand the role of knowledge management in intelligent systems	The Internet of Things as a Platform for Intelligent Applications	lecture	Assignments and Discussions
14	3	Understand methods for implementing decision support systems	Implementation Issues: From Ethics and Privacy to Organizational and Societal Impacts	lecture	Assignments and Discussions
15	3	-	Exam	lecture	-

47. Course Evaluation

5. Final exams 70%
6. Monthly exam 10%
7. Assignments 10%
8. Class contribution 10%

48. Learning and Teaching Resources

Main References (Sources)	**Sharda, S, Delen, Dursun, and Turban, E., (2020), ANALYTICS, DATA SCIENCE, & ARTIFICIAL INTELLIGENCE SYSTEMS FOR DECISION SUPPORT, Person.**
Recommended supporting books and references (scientific journals, reports...)	
Curriculum update rate	10%

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

أ.م.د. رمضان محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

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University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

49. Course Name:
Enterprise Resource Planning System – PhD
50. Course Code:
AEMI25-708
51. Semester / Year:
2025-2026
52. Description Preparation Date:
2026
53.Available Attendance Forms:
Mandatory attendance for (15 weeks)
54.Number of Credit Hours (Total) / Number of Units (Total)
3 hours/3 units
55. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. Ali Abdulfattah Alshaher **Email: a.alshaher@uomosul.edu.iq**
56. Course Objectives

Course Objectives	**This course aims to introduce students to concepts and systems of enterprise resou planning (ERP), and how they can be used improve the efficiency and effectiveness operations within organizations.** **The learning objectives are:**

	Understanding the systems: Identifying various ERP systems and their components. **Application of knowledge: Applying theoret concepts to practical scenarios.** **Data analysis: Developing skills in analyz data and using it in decision-making.**

57.	Teaching and Learning Strategies
Strategy	Teaching strategies (lecture, discussion, problem-solving, projects, brainstorming). Learning strategies (inference, switching ideas, providing examples).

58. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	1. Understanding the ERP concept: Learn what enterprise resource planning systems are and their importance in business management. 2. ERP system components: Learn about the main components of an ERP system, such as human resource management, inventory management, and financial management.	**Foundation for Understanding Enterprise Resource Planning Systems**	Discussion Method	Daily and Weekly Homework

2	3	1. Understanding Reengineering: • Understand the concept of reengineering in business and its importance in improving processes. 2. Analyzing the relationship between reengineering and ERP: • Understand how reengineering impacts the design and implementation of enterprise resource planning (ERP) systems.	**Re-engineering and Enterprise Resource Planning Systems**	Discussion Method	Daily and Weekly Homework
3	3	1. Understanding Architectural Design: • Understand the basic principles of Enterprise Resource Planning (ERP) system design and its key components. 2. Defining System Requirements: • The ability to gather and analyze business requirements to design an ERP system that meets the organization's needs. 3. Implementation Planning: • Develop skills in planning and	**Design, and Implementation of Enterprise Resource Planning Systems**	Practical Presentations Method	Reports

		implementing an ERP project, including identifying key phases and milestones. 4. Software Selection: • Evaluate various ERP software options and select the appropriate solution based on the organization's needs.			
4	3	1. Understanding the Basic Components: • Identify the different modules in Enterprise Resource Planning (ERP) systems, such as finance, purchasing, sales, and inventory management. 2. Functional Analysis: • Understand the main functions of each module and how they interact with other modules to achieve operational integration.	**ERP Modules and Functionality**	Discussion Method	Reports
5	3	1. Vendor Evaluation: • Determine the basic criteria for selecting the appropriate ERP system vendor, including experience, technical support, and costs. 2. Bids Analysis:	**Managing an ERP Project & Griteria for selecting ERP vendors**	Project Method	Reports

		• The ability to analyze and evaluate bids submitted by vendors based on identified needs.			
6	3	Understanding the relationship between ERP and customer relationship management	**ERP & CRM**	Practical Presentations Method	Reports
7	3	Understanding the relationship between ERP and supplier relationship management	**ERP & SCM (ERP for integrating the supply chain)**	Discussion Method	Daily and Weekly Homework
8	3	Understanding the relationship between ERP and business intelligence systems	**ERP & BI (Business Intelligence Systems)**	Discussion Method	Reports
9	3	1. Understanding IT Governance: • Understand the concept of IT governance and its importance in managing ERP systems. 2. Governance Framework: • Understand different IT governance frameworks, such as COBIT and ITIL, and how they apply them in the ERP context. 3. Analyzing the Role of ERP in Governance: • Evaluate how ERP systems impact IT governance and enhance	**IT Governance framework & ERP**	Discussion Method	Reports

		transparency and accountability.			
10	3	1. Understanding ERP-Associated Risks: • Identify the types of risks that may face enterprise resource planning (ERP) systems, such as security, operational, and technical risks. 2. Security Threat Analysis: • Understand common security threats facing ERP systems and how they impact data and operations. 3. Security Strategies: • Develop skills to design effective security strategies to protect ERP systems, including encryption, access control, and monitoring.	**Security and risks of ERP**	Discussion Method	Reports
11	3	Learn about the ERP system architecture	**ERP Architecture**	Project Method	Reports
12	3	Learn about the critical success factors for a successful ERP system implementation	**Critical Success Factors in ERP**	Practical Presentations Method	Reports
13	3	Learn about the latest technologies impacting ERP	**Emerging Technology in ERP**	Discussion Method	Daily and Weekly Assignments

14	3	Learn about what the term "smart ERP" means and the characteristics that distinguish it from traditional ERP systems.	**Smart ERP**	Project Method	Reports
15	**Semester exam**				

59. Course Evaluation

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.

60. Learning and Teaching Resources

Required textbooks (curricular books, if any)	محفوظ حمدون الصواف و علي عبد الفتاح الشاهر، (2016)، نظام تخطيط موارد المنظمة - (ERPS) بين النظرية والتطبيق، مؤسسة الوراق للنشر والتوزيع.
Main references (sources)	**Vinaja, R. (2018). Enterprise resource planning and business intelligence systems for information quality: an empirical analysis in the Italian setting.** **Ganesh,K., Mohapatra, S., Anbuudayasankar, S. P., & Sivakumar, P. (2014). Enterprise resource planning: fundamentals of design and implementation. Springer.** **Kurbel, K. E. (2013). Enterprise resource plann and supply chain management. Functio Business Processes and Software Manufacturing Companies. Progress in Springer, Dordrecht.**
Recommended books and references (scientific journals, reports…)	

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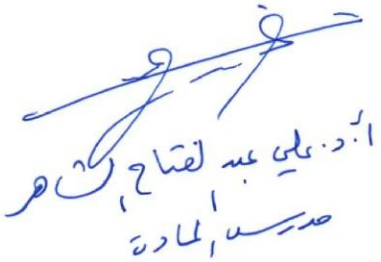
Electronic References, Websites	✓



University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul | **College : Management and Economics** | **Department :Management Information Systems**

61.Course Name:
Management of Administrative Information Systems Security / PhD

62.Course Code:
AEMI25_F705

63.Semester / Year:
First course 2025-2026

64.Description Preparation Date:
26/8/2025

65.Available Attendance Forms:
Attendance in the classroom

66.Number of Credit Hours (Total) / Number of Units (Total)
45 hours

67.Course Objectives
The purpose of this course is to explore how to address information security risks facing organizati
and individuals by adopting an information security management mechanism, particularly in light of
rapid development of information technology, and developing policies and procedures for this purpo
It also attempts to explore the philosophical relationship between information security management a
other important considerations within the organization.

68.learning methods
- Delivering a lecture
- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies

- Daily oral tests

69.Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject

70. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Concept,causes, importance, characteristics, security objectives, requirements, standards, elements.	Introduction to Information Security Management System	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Concept, importance, levels, behaviors, influencing factors, case studies	Concept,importance, levels, behaviors, influencing factors, case studies	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	3	Organizational factors for information security, organizational characteristics of	Organizational factors of information security, organizational	Clarifying concepts, supporting with	Daily and weekly assignments, weekly

		information security, and organizational performance.	characteristics of information security and organizational performance	theoretical and practical examples, asking questions, discussing ideas	reports, daily exams, weekly exams
4	3	Theories of compliance with information security policies, motivations for compliance with information security policies, challenges.	Theories of compliance with information security policies, motivations for compliance with information security policies, challenges	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Building information security strategies, stages of strategic planning for information security, implementing an information security strategy	Building information security strategies, stages of strategic planning for information security, implementing an information security strategy	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	3	Information security governance framework, information security governance requirements, information security	Information security governance framework, information security governance requirements,	Clarifying concepts, supporting with theoretical and	Daily and weekly assignments, weekly reports, daily

		governance standards, levels of information security governance	information security governance standards, information security governance levels	practical examples, asking questions, discussing ideas	exams, weekly exams
7	4	Technical stress on individuals, stress and information security policies, stress models in information security, the impact of stress on privacy, the impact of stress on individual performance.	Technical stress on individuals, stress and information security policies, stress models in information security, the impact of stress on privacy, the impact of stress on individual performance	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Theories of information sharing, information sharing and information security, ideal policies for information sharing.	Information sharing theories, information exchange and information security, ideal policies for information sharing	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
9	4	Information Security Costs and Benefits Goals of Measuring Information Security Costs Calculating Information Security Costs Difficulties in	Costs and benefits of information security, objectives of measuring information security costs, calculating information security costs, difficulties in	Clarifying concepts, supporting with theoretical and practical examples,	Daily and weekly assignments, weekly reports, daily exams, weekly

		Measuring Information Security Costs Dimensions of Information Security Costs	measuring information security costs, dimensions of information security costs	asking questions, discussing ideas	exams
10	3	International standards for information security. Requirements for obtaining international standards. Requirements for implementing information security standards, case studies.	International standards for information security, requirements for obtaining international standards, requirements for implementing information security standards, case studies	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Big data security threats challenges and solutions, tools and applications, big data privacy	Big data security threats challenges and solutions, tools and applications, big data privacy	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	3	Analyzing information security risks, opportunities, threats, strengths, and weaknesses. The importance and characteristics of SWET analysis	Analyzing information security risks, opportunities, threats, strengths, and weaknesses. The importance and characteristics of SWET analysis.	Clarifying concepts, supporting with theoretical and practical examples, asking	Daily and weekly assignments, weekly reports, daily exams, weekly

				questions, discussing ideas	exams
13	3	Cyber security framework, regulations, and recommendations, cyber security framework, cyber attacks, requirements and measures, forms of social engineering attacks	Cybersecurity framework, regulations, and recommendations, cybersecurity framework, cyber attacks, requirements and measures, forms of social engineering attacks	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Concepts, methodologies, applications, tools, ethical issues in the use of technology, digital citizenship	Concepts, methodologies, applications, tools, ethical issues in the use of technology, digital citizenship	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Challenges in the Digital Age: Issues and Solutions in Information Security, Case Studies	Challenges in the Digital Age: Issues and Solutions in Information Security, Case Studies	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				ideas	

71. Course Evaluation	
1. Final exams 70% 2. Tests, activities, and submitted reports 30%	
72. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Main References (Sources)	Harold Tewamba, Jean Kamdjoug, Georges Bitjoka, Samuel Wamba, Nicolas Bahanag,(2024), " Effects of Information Security Management Systems on Firm Performance".
Recommended supporting books and referen (scientific journals, reports...)	Information Security Handbook: A Guide for Managers Recommendations of the National Institute of Standards and Technology Pauline Bowen& Joan Hash
Curriculum update rate	20%

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University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul | **College : Management and Economics** | **Department :Management Information Systems**

73.Course Name:
Artificial Intelligence / PhD
74.Course Code:
AEMI26_711
75.Semester / Year:
First course 2025-2026
76.Description Preparation Date:
26/8/2025
77.Available Attendance Forms:
Attendance in the classroom
78.Number of Credit Hours (Total) / Number of Units (Total)
45 hours
79.Course Objectives
This course aims to equip students with a comprehensive understanding of the fundamental concepts artificial intelligence and its applications within the business environment, as well as to familiar them with the role of AI technologies in supporting decision-making and enhancing organizatio performance. The course also seeks to develop students' ability to analyze managerial and econor problems using artificial intelligence tools, and to apply machine learning and data analytics techniq across key functional areas such as marketing, human resources, finance, and supply ch management. Furthermore, the course aims to strengthen analytical and strategic thinking skills, and promote an understanding of the ethical and legal considerations associated with the use of artifi intelligence in business, thereby contributing to the preparation of qualified professionals capable keeping pace with digital transformation and the evolving demands of the labor market.
80.learning methods
- Delivering a lecture

- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

81.Learning Strategies

The teaching of the Artificial Intelligence in Business course is based on a combination of instructional strategies that emphasize active and applied learning. Interactive lectures are employed to present core theoretical concepts, supported by in-class discussions that stimulate critical thinking and the analysis of contemporary issues in the business environment. Practical case studies are utilized to enable students to understand real-world applications of artificial intelligence within organizations, alongside project-based learning that allows students to design intelligent models or solutions for authentic business problems. Cooperative learning is also adopted through group work, in addition to the use of presentations, e-learning platforms, and analytical software, thereby contributing to the development of analytical and decision-making skills and fostering a strong linkage between theoretical knowledge and practical application.

82. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Expert System	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Clarification of concepts, support through theoretical and real-world examples, posing	Applications of Expert Systems in the Business Environment	Clarifying concepts, supporting with	Daily and weekly assignments, weekly

		questions, and discussion of ideas.		theoretical and practical examples, asking questions, discussing ideas	reports, daily exams, weekly exams
3	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Metaheuristic Algorithms	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
4	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Fuzzy Logic	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion	Artificial Neural Networks (ANNs)	Clarifying concepts, supporting with theoretical and	Daily and weekly assignments, weekly reports, daily

		of ideas.		practical examples, asking questions, discussing ideas	exams, weekly exams
6	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Artificial Neural Networks (ANNs)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
7	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Deep Learning	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Deep Learning	Clarifying concepts, supporting with theoretical and practical examples,	Daily and weekly assignments, weekly reports, daily exams, weekly

				asking questions, discussing ideas	exams
9	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Machine Learning Techniques	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
10	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Tabu Search Algorithm in Business Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Firefly Algorithm in Business Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions,	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				discussing ideas	
12	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Bacterial Algorithm in Business Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
13	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Ant Colony Algorithm in Business Systems		Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	Intelligent Information Systems and Their Role in Decision Support		Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion	Predictive Information Systems Using Artificial Intelligence Techniques	Clarifying concepts, supporting with theoretical	Daily and weekly assignments, weekly reports,

		of ideas.		and practical examples, asking questions, discussing ideas	daily exams, weekly exams

83. Course Evaluation	
1. Final exams 70% 2. Tests, activities, and submitted reports 30%	
84. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Main References (Sources)	
Recommended supporting books and referen (scientific journals, reports...)	Artificial IntelligenceApplications in DistanceEducation, Utku Kose
Curriculum update rate	20%

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form Master's Program

University : Mosul	College : Management and Economics	Department :Management Information Systems

85.Course Name:
Decision support systems (DSS)– Master students

86.Course Code:
AEMI24_601

87.Semester / Year:
First course 2025-2026

88.Description Preparation Date:
15/9/2025

89.Available Attendance Forms:
Attendance in the classroom

90.Number of Credit Hours (Total) / Number of Units (Total)
45 hours /3 Units

91.Course Objectives
- Provide students with in-depth knowledge of the concepts, components, and historical development of decision support systems and their role in the business environment.
- Develop skills in analyzing complex problems and making effective decisions using quantitative tools and supporting information systems.
- Enable students to build decision support models using tools such as sensitivity analysis, simulation, and DSS software.
- Provide students with the ability to use data analysis tools, data mining, and neural networks to improve the effectiveness of managerial decisions.
- Apply concepts and tools through applied projects or real-life case studies in the fields of management and industry.

92.Learning methods
- Delivering a lecture
- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

93.Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject.

94. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	A deep understanding of the concept of decision support systems	Introduction to Decision Support Systems	Lecture	Assignments and Discussions
2	3	Understand the role of information technology in decision support systems	Management Decisions and Computerized Support	Lecture	Assignments and Discussions
3	3	Understand the stages of decision making and the role of the support process in each stage	Decision Making Stages	lecture	Assignments and Discussions
4	3	Understand the definition of decision support systems	Concept and Structure of Decision Support Systems	lecture	Assignments and Discussions
5	3	Understand the capabilities and characteristics of decision support systems	Description of Decision Support Systems, Their Capabilities, and Classifications	Lecture	Assignments and Discussions
6	3	Understand the components of decision support systems	Components and Subsystems of Decision Support Systems	lecture	Assignments and Discussions
7	3	Understand the analysis and decision modeling processes	Analysis and Decision Modeling Processes	lecture	Assignments and Discussions
8	3	Understand business performance management	Business Performance Management	lecture	Assignments and Discussions
9	3	Understand the concept of business intelligence	Business Intelligence: A General Framework	lecture	Assignments and Discussions
10	3	Understand the concept of data management	Data Management: Data Warehouse	lecture	Assignments and Discussions

11	3	Understand the concept of using artificial intelligence	Using Artificial Intelligence in Decision Support	lecture	Assignments and Discussions
12	3	Understand the role of collaboration in decision support systems	Collaboration, Communication, and Group Decision Support Systems	lecture	Assignments and Discussions
13	3	Understand the role of knowledge management in intelligent systems	Knowledge Management and Intelligent Systems	lecture	Assignments and Discussions
14	3	Understand methods for implementing decision support systems	Implementation of Decision Support Systems and Business Intelligence	lecture	Assignments and Discussions
15	3	-	Exam	lecture	-

95. Course Evaluation

9. Final exams 70%
10. Monthly exam 10%
11. Assignments 10%
12. Class contribution 10%

96. Learning and Teaching Resources

Main References (Sources)	**Turban, E. Sharda, S, and Delen, Dursan, (2011) Decision Support and Business Intelligence Systems, Practice Hall.**
Recommended supporting books and references (scientific journals, reports...)	
Curriculum update rate	10%

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University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University: Mosul | **College: Management and Economics** | **Department: Management Information Systems**

97.Course Name:
Knowledge Management / Master program
98.Course Code:
AEMI25_602
99.Semester / Year:
First course 2025-2026
100. Description Preparation Date:
26/8/2025
101. Available Attendance Forms:
Attendance in the classroom
102. Number of Credit Hours (Total) / Number of Units (Total)
45 hours
103. Course Objectives
The purpose of this course is to explore how organizations can leverage their intellectual assets to enhance innovation and performance by adopting a systematic **Knowledge Management (KM)** framework. It aims to examine the mechanisms for identifying, capturing, and sharing both tacit and explicit knowledge, especially in the context of the digital transformation and the shift towards a knowledge-based economy. Furthermore, the course attempts to explore the critical relationship between organizational culture, human behavior, and the technological tools required to sustain a continuous learning environment and develop policies that support effective knowledge flow.
104. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas

- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

105. Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject

106. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Concepts, KM drivers, and the difference between Data, Information, and Knowledge.	**Introduction to Knowledge Management**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Tacit vs. Explicit knowledge, and the SECI model (Knowledge conversion).	The Nature of Knowledge	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

3	3	Organizational culture, structure, and IT infrastructure supporting KM.	KM Foundations: Infrastructure and Mechanisms	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
4	3	KM processes and systems: Discovery, Capture, Sharing, and Application.	Knowledge Management Solutions	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	How KM affects people, processes, products, and overall performance.	Organizational Impacts of KM	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	3	Decision support systems, expert systems,	Knowledge	Clarifying concepts,	Daily and weekly

		and advisor systems.	Application Systems	supporting with theoretical and practical examples, asking questions, discussing ideas	assignments, weekly reports, daily exams, weekly exams
7	4	Methods for capturing tacit knowledge and the use of Concept Maps.	Knowledge Capture Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Knowledge repositories, communities of practice, and expert-finder systems.	Knowledge Sharing Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
9	4	Knowledge discovery from data: Data mining and visualization	Knowledge Discovery Systems	Clarifying concepts, supporting with	Daily and weekly assignments, weekly

		techniques.		theoretical and practical examples, asking questions, discussing ideas	reports, daily exams, weekly exams
10	3	The influence of environment and organizational characteristics on KM choices	Contingency Factors for KM	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Developing a KM strategy and metrics for measuring KM success (ROI, Benchmarking).	KM Strategy, Leadership, and Assessment	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	3	Leveraging the cloud for knowledge storage, collaboration, and scalability.	KM and Cloud Computing	Clarifying concepts, supporting with theoretical and	Daily and weekly assignments, weekly reports, daily

				practical examples, asking questions, discussing ideas	exams, weekly exams
13	3	Crowdsourcing, Machine Learning, and AI-driven knowledge generation	KM in the Era of Artificial Intelligence (AI)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Interactive lecture based on the chapter content. Analyzing the real-world cases provided at the end of each chapter in the book.	KM during Crises and Future Challenges	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Examination and discussion students' projects		Clarifying concepts, supporting with theoretical and practical examples,	Daily and weekly assignments, weekly reports, daily exams, weekly

				asking questions, discussing ideas	exams

107. Course Evaluation	
1. Final exams 70% 2. Tests, activities, and submitted reports 30%	
108. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Main References (Sources)	Becerra-Fernandez, I., Sabherwal, R., & Kumi, R. (2024). *Knowledge management: systems and processes in the AI era*. Routledge.
Recommended supporting books and referen (scientific journals, reports...)	
Curriculum update rate	20%

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مدير الجامعة
أ.م.د. محمد عاصم محمد علي

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Management Information Systems

Course name and academic level .1
Master's / Information Systems Analysis and Design
Course code .2
AEMI23_603
Semester/Year .3
2026-2025
Date this description was prepared .4
2025
Available forms of attendance .5
(Mandatory attendance for (15 weeks
(total) / Number of units (total) Number of study hours .6
hours/3 units 3
Name of the course supervisor (if more than one name is mentioned) and .7 .academic title
:Name: Dr. Ahmed Zuhair Tawfiq / Assistant Professor Email **ahmed_zuhair@uomosul.edu.iq**

Course objectives .8	
	• efining the concept of D systems as a basis for analyzing and designing information systems • Understand how to use a systems approach to address .information systems problems • Equipping students with the knowledge necessary to study and analyze user needs and usage, and to identify information request and usage behaviors among different .categories of beneficiaries • Increase the student's ability to think analytically and synthetically Methods of building, developing, and evaluating systems in information utions and determinants of instit implementation success, focusing on the .system development life cycle
Teaching and learning strategies .9	
inference,) Learning strategies (itching ideas, providing examplessw	**Teaching strategies (lecture, discussion, problem solving, (projects, brainstorming**

Course structure .10

Evaluation method	Learning method	Name of unit or topic	Required learning outcomes	watches	week
Daily and monthly exams	Project method	**Basic principles of**	Be able to . identify and	3	1

		systems theory	diagnose the problem and recognize functional relationships and related .information		
Daily and weekly duties	Discussion method	**Information Systems t and Analys Systems Development Approaches**	Providing students with the ability to analyze systems and track administrativ e problems using scientific and applied means and .methods	3	**2**
Reports	practical demonstratio hodn met	**Systems Life) CycleSDLC) Feasibility Study & Systems Analysis**	Discover different alternatives, compare them, and then choose .the best one	3	**3**
Daily and weekly duties	Discussion method	**Systems Design**	The ability to establish working relationships with stakeholders in the .system	3	**4**

Daily and monthly exams	Project method	**Implementation &Testing**	Learn about the methods of designing these systems and the importance of management information .systems	3	**5**
Reports	practical demonstration method	**& Conversion Operation And Evaluation**	Learn information systems analysis and design techniques	3	**6**
Daily and weekly duties	Discussion method	**Maintenance**	Providing students with the ability to analyze systems and track ministrativad e problems using scientific and applied means and .methods	3	**7**
Daily and monthly exams	ect Proj method	**Prototyping**	Be able to identify and diagnose the problem and identify functional relationships and related	3	**8**

			.information		
Reports	practical demonstration method	**End User Application Development Development**	Discover different alternatives, compare them, and then choose .the best one	3	**9**
Daily and weekly duties	Discussion method	**Outsourcing**	The ability to establish working relationships th wi stakeholders in the .system	3	**10**
Daily and monthly exams	Project method	**Application Software Packages**	Learn about the methods of designing these systems and the importance of management information .systems	3	**11**
Reports	practical demonstration method	**Rapid Application Development**	Learn information systems analysis and design techniques	3	**12**
Daily and weekly duties	Discussion method	**Object-Oriented Development Development**	Providing students with the ability to analyze systems and	3	**13**

			track administrative problems using scientific and applied means and .methods		
Daily and monthly exams	Project method	**Systems Analysis and Design Techniques (Tools)**	Be able to identify and diagnose the problem and identify functional relationships and related .information	3	**14**
		a test	.	3	**15**

Course Evaluation and Grade Divisions .11	
The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.	
ng and teaching resourcesLearni .12	
	(Required textbooks (methodology if any
Lataei, Muhammad Abd, et al., Information Systems ،2020 Analysis and Design	(Main References (Sources

n, Laith Saadallah, 2020, Hussei Information Systems Analysis and Design, First Edition, Academics House for Publishing .and Distribution, Amman, Jordan	Recommended supporting books and (...references (scientific journals, reports
Satzinger , John W. ،Jackson, Robert B., Burd , Stephen D., 2022, Systems Analysis And Design In A Changing World, Sixth Edition, Printed In The United States Of America . Valacich ,J.,S. ,George,J. ,F. ,2017,Modern Systems Analysis and Design, 8th E. , Pearson Education ، Inc.	Electronic references, websites
%20	Curriculum update rate

أ.م.د. رمضان محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

اسم وتوقيع صاحب المقرر
د. احمد حيدر شنون

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul | **College : Management and Economics** | **Department :Management Information Systems**

109. Course Name:
Databases/ Master's
110. Course Code:
AEMI26_604
111. Semester / Year:
First course 2025-2026
112. Description Preparation Date:
26/8/2025
113. Available Attendance Forms:
Attendance in the classroom
114. Number of Credit Hours (Total) / Number of Units (Total)
45 hours
115. Course Objectives
The course introduces students to the fundamental objective of databases, which is to focus on organization of data rather than on specific applications. Accordingly, the primary goal of the datab designer is to structure data in a manner that eliminates redundancy and allows for efficient retriev modification, and insertion without the problems that typically arise from data duplication. This achieved through the identification of three levels of abstraction or database models, known normalization forms. Database normalization refers to the process of organizing data structures to m closely reflect a natural classification, thereby enhancing data integrity and consistency.
116. learning methods
- Delivering a lecture

- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

117. Learning Strategies

The main strategy adopted in delivering this course is to encourage students' active participation in preparing assignments and engaging in classroom discussions, while simultaneously enhancing and expanding their critical thinking skills. This is achieved through interactive classroom sessions and educational programs, as well as the presentation of selected case studies that incorporate theoretical explanations of the course content.

118. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Introduction to Database Management Systems**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Autonomous Database**	Clarifying concepts, supporting with theoretical and practical	Daily and weekly assignments, weekly reports, daily exams,

				examples, asking questions, discussing ideas	weekly exams
3	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Autonomous Database**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
4	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Autonomous Database**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Distributed Databases**	Clarifying concepts, supporting with theoretical and practical examples, asking	Daily and weekly assignments, weekly reports, daily exams, weekly

				questions, discussing ideas	exams
6	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Distributed Databases**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
7	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Entity–Relationship Model (ER Model)**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Transforming an ER Diagram into a Database Schema**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				ideas	
9	4	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Normalization Forms**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
10	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Normalization Forms**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**File Organization**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

12	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**File Organization**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
13	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Cloud Databases**		Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Edge Computing**		Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Clarification of concepts, support through theoretical and real-world examples, posing questions, and discussion of ideas.	**Quantum Computing**	Clarifying concepts, supporting with theoretical and practical examples,	Daily and weekly assignments, weekly reports, daily exams, weekly

				asking questions, discussing ideas	exams

119. Course Evaluation

1. Final exams 70%
2. Tests, activities, and submitted reports 30%

120. Learning and Teaching Resources

Required textbooks (methodology if any)	
Main References (Sources)	
Recommended supporting books and referen (scientific journals, reports...)	
Curriculum update rate	20%

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul	**College : Management and Economics**	**Department :Management Information Systems**

121. Course Name:
E- business systems / Master
122. Course Code:
AEMI25_605
123. Semester / Year:
First coures 2025-2026
124. Description Preparation Date:
2025/8/25
125. Available Attendance Forms:
Attendance in the Classroom
126. Number of Credit Hours (Total) / Number of Units (Total)
45 hours
127. Course Objectives
Course Description: Understand the basic concepts of e-business systems . Identify major e-business moc and applications. Explain the role of information systems in supporting e-business . Recognize technological and security infrastructure of e-business systems. alyze the impact of e-business organizational performance and competitiveness.
128. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies -Daily oral tests
129. Learning Strategies
The subject Effective learning strategies for E-Business Systems include active reading of key concepts

such as e-commerce models, payment systems, and CRM, combined with analyzing real-world case

studies of successful companies like Amazon and Alibaba. Hands-on practice with tools like ERP, CRM and website builders reinforces understanding, while collaborative group work and problem-based tasks enhance critical thinking and solution development. Utilizing digital resources and staying updated on trends such as mobile commerce and AI, along with regular self-assessment through quizzes and summaries, ensures a strong connection between theory and practical application.

130. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Understand the fundamental principles of electronic commerce and its applications in business	Introduction to Electronic Commerce	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Understand the structure, functionality, and key components of the Internet and the World Wide Web, and their role in supporting digital technologies	Technology Infrastructure: The Internet and the World Wide Web	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	3	Understand the strategies, processes, and tools involved in conducting business and selling	Selling on the Web	Clarifying concepts, supporting with future and real-world	Daily and weekly assignments, weekly reports, daily exams,

		products or services online.		examples, asking questions, discussing ideas	weekly exams
4	3	Understand the principles, strategies, and tools of online marketing to effectively promote products and services on the Web	Marketing on the Web	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Understand how B2B activities enhance operational efficiency and reduce costs through digital processes and technologies	Business-to-Business Activities: Improving Efficiency and Reducing Costs	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	3	Understand the role of social networking, mobile commerce, and online auctions in modern digital business and customer engagement	Social Networking, Mobile Commerce, and Online Auctions	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
7	3	Understand the legal, ethical, and taxation issues that affect	The Environment of Electronic Commerce: Legal, Ethical, and Tax Issues	Clarifying concepts, supporting	Daily and weekly assignments,

		electronic commerce and ensure responsible online business practices		with future and real-world examples, asking questions, discussing ideas	weekly reports, daily exams, weekly exams
8	3	Demonstrate knowledge and understanding of course content by effectively preparing for and completing the midterm exam, applying critical thinking and problem-solving skills.	Midterm exam	Exams	Exams
9	3	Understand the hardware and software components of web servers and their role in supporting online services and applications	Web Server Hardware and Software	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
10	3	Demonstrate knowledge of configuring and managing web server hardware and software to ensure reliable online operations.	Web Server Hardware and Software	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

11	3	Understand the types, functions, and applications of software used to support electronic commerce operations	Electronic Commerce Software	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	3	Understand the principles, practices, and technologies for securing electronic commerce transactions and protecting digital assets	Electronic Commerce Security	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
13	3	Demonstrate knowledge of identifying and mitigating security risks in e-commerce environments	Electronic Commerce Security	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Demonstrate knowledge of selecting and managing secure payment methods for online transactions	Payment Systems for Electronic Commerce	Clarifying concepts, supporting with future and real-world examples, asking questions,	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				discussing ideas	
15	3	Understand the processes, strategies, and challenges involved in planning, implementing, and managing e-commerce systems	Managing Electronic Commerce Implementations	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

131. Course Evaluation

5- Final exams 70%
6- Monthly tests 10%
7- Assignments 10%
8- Class contribution 10%

132. Learning and Teaching Resources

Gary P. Schneider, (2015), Electronic Commerce .Copyright 2015 Cengage Learning. Eleventh Edition

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Curriculum update rate	20%

أ.م.د. رضا محمود الابراهيم
رئيس قسم نظم المعلومات الادارية

أ.م.د. محمد يونس محمد
مدرس المادة

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

133. Course Name:
Management Information Systems Project Management – Master's
134. Course Code:
AEMI26-606
135. Semester / Year:
2025-2026
136. Description Preparation Date:
2025
137. Available Attendance Forms:
Mandatory attendance for (15 weeks)
138. Number of Credit Hours (Total) / Number of Units (Total)
3 hours/3 units
139. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. Ali Abdulfattah Alshaher **Email: a.alshaher@uomosul.edu.iq**
140. Course Objectives

Course Objectives	**Cognitive Objectives:** **1. To build confidence in the student's ability to manage large proje and work with project stakeholders.** **2. To understand best practices in information systems proj management.**

	3. To understand how to manage project information flow throughout different project phases. **Skill-Based Objectives:** **1. To understand different project delivery systems and their impact the role of the project management team.** **2. To manage the various types and sources of risks that fall within responsibilities of a project supervisor.** **3. To participate in project planning and preparation.** **4. To understand how project financing works and its role in controll cash flow and project costs.** **5. To coordinate efforts to complete the project.** **6. To understand how organizational procedures and policies aff project management.**

141. Teaching and Learning Strategies

Strategy	Teaching strategies (lecture, discussion, problem-solving, projects, brainstorming). Learning strategies (inference, switching ideas, providing examples).

142. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	• Understanding the project and its life cycle: Introducing students to the concept of a project and its components, as well as the stages of the	What is a project? What is a project life cycle?	• An interactive lecture combined with practical	* Short quizzes * Small projects or case studies * Discussions and

		project life cycle (initiation, planning, execution, monitoring, and closure). • Applying knowledge and skills: Enabling students to apply concepts in practical situations and improving their analytical and planning skills for effective project management.		activities and case studies to enhance understanding. • Group discussions to exchange ideas and experiences about projects.	group activities.
2	3	• Understanding Success Factors: Introducing students to the key factors that influence the success of today's IT projects, such as sound planning, risk management, and effective communication. • Applying Concepts: Developing students' ability to analyze and study real-world case studies to determine how success factors contribute to project outcomes.	Today's success Factors for IT project	An interactive lecture with real-life examples and case studies.	* Short quizzes * Small projects or case studies * Discussions and group activities.
3	3	• Understanding Comprehensive Project Planning: Introducing students to the components of effective planning and how to prepare a comprehensive	Project overall planning	An interactive lecture with practical examples about planning.	* Short quizzes * Small projects or case studies * Discussions an group activities.

		project plan that includes objectives, timeline, and resources. • Applying Planning Tools: Enabling students to use planning tools and techniques, such as Gantt charts and project management plans, to develop practical plans for their projects.			
4	3	• Understanding Schedule and Cost Plan Development: Introducing students to the concept of schedule preparation and cost estimation, and how to integrate these two elements into the overall project plan. • Applying Planning Techniques: Developing students' ability to use software tools such as Microsoft Project or Excel to develop accurate schedules and cost estimates.	Developing the schedule and cost plan.	An interactive lecture with case studies illustrating how to prepare timelines and cost plans.	* Short quizzes * Small projects or case studies * Discussions and group activities.
5	3	• Understanding Planning and Risk Management: Introducing students to project risk concepts, how to identify and assess risks, and how to develop strategies for	Risk planning and management.	An interactive lecture with real-life case study examples on project risks.	* Short quizzes * Small projects or case studies * Discussions and group activities.

		managing them. • Applying Risk Management Tools: Ensuring students' ability to use risk analysis tools such as risk matrices and effective response plans.			
6	3		Case Studies		
7	3	• Understanding Quality Management: Introducing students to quality management concepts and their importance in project management, including fundamental principles such as continuous improvement and meeting customer requirements. • Applying Quality Strategies: Enabling students to use quality management tools and techniques, such as the Seven Keys analysis and audit processes, to improve project quality.	Managing quality	An interactive lecture with case studies illustrating how to implement quality management processes in various projects.	* Short quizzes * Small projects or case studies * Discussions and group activities.
8	3	• Understanding Change Management: Introducing students to the concepts of change management and its importance in projects,	Change and closeout management.	An interactive lecture featuring case studies that illustrate how to manage	* Short quizzes * Small projects or case studies * Discussions and

		including how to handle potential changes and their impact on project scope and budget. • Project Closure Management: Enabling students to implement an effective project closure process, including evaluating project performance and documenting lessons learned.		changes and successfully close projects.	group activities.
9	3	• Understanding Procurement and Contracts: This course introduces students to the concepts of procurement, purchasing, and contract fundamentals, including the stages of the procurement process and the importance of selecting appropriate suppliers. • Outsourcing Strategies: This course enables students to analyze the benefits and risks of outsourcing and make effective decisions regarding outsourcing work.	Procurement and outsourcing.	An interactive lecture that includes examples of outsourcing and contracting cases in various fields.	* Short quizzes * Small projects or case studies * Discussions and group activities.

10	3	• Understanding Stakeholder Management: Introducing students to the concept of stakeholders and their importance in projects, including how to identify and categorize stakeholders and their impact on the project. • Developing Communication Strategies: Developing students' ability to create effective strategies for communicating with and managing stakeholders to ensure ongoing engagement and support.	Stakeholder management	An interactive lecture that includes case studies on stakeholder management in various projects.	* Short quizzes * Small projects or case studies * Discussions and group activities.
11	3	• Understanding Project Control: Introducing students to the concepts and importance of project control, including how to monitor project progress and ensure goals are achieved. • Applying Control Tools: Developing students' ability to use techniques such as Earned Value Analysis (EVA) and key	Project control	An interactive lecture including case studies that illustrate how to apply project control techniques.	* Short quizzes * Small projects or case studies * Discussions and group activities.

		performance indicators (KPIs) to evaluate and analyze project performance.			
12	3	• Understanding Project Management Software Systems: Introducing students to the components and importance of software systems used in project management, including how to select the appropriate system for project needs. • Applying Software Tools: Developing students' ability to use systems such as Microsoft Project, Trello, and Asana to perform project management tasks such as planning, monitoring, and assigning tasks.	Software system for projects	An interactive lecture that includes a review of different software systems and best practices.	* Short quizzes * Small projects or case studies * Discussions and group activities.
13	3	• Understanding the Role of Information Systems Project Management: Introducing students to the importance and objectives of information systems project management, including how to plan, implement, monitor, and ensure the success of	The role of information system project management.	An interactive lecture that includes real-world examples and case studies on information systems project management.	* Short quizzes * Small projects or case studies * Discussions and group activities.

		technology projects. • Applying Information Systems Project Management Strategies: Developing students' ability to use project management techniques such as planning, requirements identification, and stakeholder management within an information systems context.			
14	3		Case studies		
15	**Semester exam**				

143. Course Evaluation

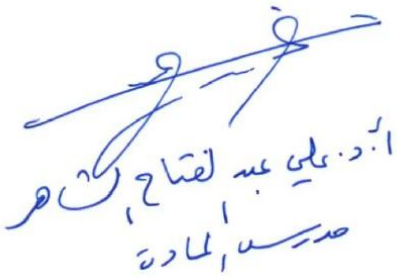
The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.

144. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	**1. Schwalbe, K. (2015). Information technology project management. Cengage Learning.** **2. Cadle, J., & Yeates, D. (Eds.). (2008). Proj management for information systems. Pears education.**
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	✓

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Curriculum update rate	10%



University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul	**College : Management and Economics**	**Department :Management Information Systems**

145. Course Name:
Technological Change Management / Master's Degree
146. Course Code:
AEMI25_F607
147. Semester / Year:
Second course 2025-2026
148. Description Preparation Date:
14/8/2025
149. Available Attendance Forms:
Attendance in the classroom
150. Number of Credit Hours (Total) / Number of Units (Total)
45 hours
151. Course Objectives
The objective of this course is to provide students with knowledge of change, particularly in light of rapid transformations in information technology. Through case studies, students gain field experience the details of technological change and the real-life situations that require change to suit organization's interests.
152. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies - Daily oral tests

153. Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject

154. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Concept, causes, importance, characteristics, stages, goals of change, forces influencing change events, types of change, resistance to change	The concept of managing technological change has evolved in contemporary management thought.	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Characteristics of change management, elements of change management	The difference between organizational change, digital change, and comprehensive digital transformation	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	3	Approaches and stages of change management, types, change	Modern schools and theories of change (Lewin – Kotter – Adkar – Complexity	Clarifying concepts, supporting with	Daily and weekly assignments, weekly

		management models	Theory)	theoretical and practical examples, asking questions, discussing ideas	reports, daily exams, weekly exams
4	3	Motives, objectives, concepts related to technological change, importance of technological change	Technological change as a sustainable competitive advantage	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Features of modern technological change, methods of technology transfer, forms of obtaining technology	Aligning technological change with the organization's strategic vision	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	3	Characteristics of technological change, importance, fields, methods, manifestations, obstacles, technological	Analyzing the internal and external environment (PESTLE, SWOT, STEEP) in the context of	Clarifying concepts, supporting with theoretical and	Daily and weekly assignments, weekly reports, daily

		change from a life cycle perspective	technological change	practical examples, asking questions, discussing ideas	exams, weekly exams
7	4	The impact of technological change on productivity, costs, and development. The impact of technological change on organizational structure, resources, and finance.	Technology roadmap: Managing technology portfolios and projects	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Individual-level theories	Assessing organizational readiness for technological change	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
9	4	Theories at the individual and group levels	Transformational leadership and digital leadership: The roles of senior management in the success of technological change.	Clarifying concepts, supporting with theoretical and practical examples,	Daily and weekly assignments, weekly reports, daily exams, weekly

				asking questions, discussing ideas	exams
10	3	Leading Technological Change (Autonomy, Empowerment, and Liberation)	Strategic decision-making in environments of technological uncertainty Leadership ethics in technological change	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Technological change and innovation: the mutual impact	Resistance to technological change: causes, patterns, and advanced strategies for addressing it	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	3	Results of technological change: digital transformation	Organizational behavior in digital transformation environments	Clarifying concepts, supporting with theoretical and practical examples, asking questions,	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				discussing ideas	
13	3	The impact of technological change on human values and societies	Building an organizational culture that supports technology and innovation	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	(elements, components, models)	Human resource management in the context of technological change	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Determinants and obstacles to technological change	Managing digital competencies and future skills Training and development policies in the age of rapid technological advancement	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				ideas	

155. Course Evaluation

The grade out of 100 is distributed according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.

156. Learning and Teaching Resources

Required textbooks (methodology if any)	
Main References (Sources)	Digital Transformation: An Overview of the Current State of the Art of Research, 2022. Digital transformation: A multidisciplinary reflection and research agenda, (2025**).**
Recommended supporting books and referen (scientific journals, reports...)	**-** Policy Responses to Technological Change in the Workplace**,(**2023**)** -Skills-Displacing Technological Change and Its Impact on Jobs: Challenging Technological Alarmism?, (2022).
Curriculum update rate	20%

أ.م.د. رمضان محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

أ.د. محمد فاضل

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Description Form

University of Mosul	College of Administration and Economics	Department of Management Information System

1. Course name and academic level
Research methods/ Master degree
Course code2.
AEMI25_609
3. Semester/Year
First course 2025-2026
4. Date this description was prepared
26/8/2025
5. lable forms of attendanceAvai
Attendance in the classroom
6. (Number of study hours (total) / Number of units (total
30 Hours
7. Course objectives
This course aims to equip students with the fundamental knowledge and skills in the field of scientific research by introducing its methodologies, steps, tools, and mechanisms for formulating problems and hypotheses. Additionally, it seeks to develop students' abilities in data collection and analysis using appropriate statistical methods, enabling them to prepare robust scientific research based on sound methodological and statistical foundations.

8.learning methods

- Delivering a lecture
- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

9. Teaching and learning strategies

The course relies on a combination of interactive strategies that enhance students' understanding of theoretical concepts and their practical applications. These include lecture methods supported by visual aids such as Data Show projectors, classroom discussions to encourage critical thinking, and cooperative learning through group activities. Additionally, homework assignments and short quizzes are used as tools to promote self-learning and continuous monitoring of students' academic progress.

10. Course structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of Scientific Research, Its Types (Exploratory, Descriptive, Experimental), and Its Importance in Administrative Sciences.	Introduction to Scientific Research: Definition, Importance, and Fundamentals of Scientific Research	Theoretical lecture, presentation, interactive discussion	Short quiz, class participation, homework assignment
2	2	How to Identify the Research	Formulating the Research	Theoretical explanation,	practical example on

		Problem and Formulate Research Questions	Problem	analysis of real examples	problem formulation
3	2	How to Search Scientific Sources, Identify the Research Gap, and Formulate the Theoretical Framework	Literature Review and Research Model	Lecture, reviewing models, training on using databases	Example on analyzing and summarizing previous studies
4	2	How to Formulate and Test Hypotheses in Scientific Research	Research Hypotheses	Discussion of real examples for hypothesis formulation	examples on formulating hypotheses
5	2	Quantitative and Qualitative Methods, Longitudinal and Cross-Sectional Studies, Experimental and Descriptive Designs	Research Design	Discussion of real examples of Research Design	Short quiz, assignment on selecting the appropriate methods
6	2	Questionnaires, Interviews, and Observation as Data Collection Tools.	Data Collection Tools	Lecture with presentation of various data collection tools, practical	Preparing a questionnaire or an interview guide

				applications, discussions	
7	2	Sampling Methods (Random, Stratified, etc.) and Determining the Appropriate Sample Size	Population and Research Samples	Theoretical explanation, practical examples, discussion	Practical example on determining samples
8	2	Using Qualitative Methods in Data Analysis (e.g., Content Analysis and Interview Analysis)	Qualitative Data Analysis	Lecture and example on analyzing qualitative data from a case study	Practical Example
9	2	Basics of Simple Statistical Analysis (Descriptive Statistics, Means, Percentages)	Introduction to Statistical Analysis	Practical examples using SPSS or Excel to analyze simple data	In-class test
10	2	Hypothesis Testing	Hypothesis Testing	Theoretical explanation, practical examples	practical examples
11	2	How to Present and Interpret Research Results Clearly and	Research Results and Their Interpretation	Lecture and practical examples	Discussion of examples for presenting

		Coherently			and interpreting results.
12	2	General Structure of Research Reports, How to Write the Introduction, Literature Review, Results, and Recommendations	Writing the Research Report	Presentation of report samples, practical training on report writing	Submission of a research report, oral feedback
13	2	Ethical Considerations in Conducting and Publishing Research, Plagiarism, and Intellectual Property Rights	Research Ethics	Discussion of real-life cases of research ethics violations	Open discussion
14	2	Preparing a Paper for Publication	Writing papers	How to choose appropriate academic journals, peer-review procedures, and responding to reviewers' comments	Open discussion and real-examples
15	2	Preparing a Paper	Writing papers	How to choose	Open

		for Publication		appropriate academic journals, peer-review procedures, and responding to reviewers' comments	discussion and real-examples

11. Course Evaluation and Grade Divisions

o the student, such The grade is distributed out of 100 based on the tasks assigned t .as daily preparation, daily, oral, monthly and written exams, reports, etc

12. Learning and teaching resources

Required textbooks	
(Main References (Sources	Sekaran, U. and Bougie, R., (2016), Research methods for business: a skill-building approach, John Wiley & Sons Ltd
Recommended supporting books and (...references (scientific journals, reports	
Electronic references, websites	
Curriculum update rate	10%

أ.م.د. رضا محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

أ.م.د. محمد عاصم محمد علي
مدير شعبة الدراسات العليا

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course

157. Course Name:
Contemporary Studies in Management Information Systems
158. Course Code:
AEMI25−609
159. Semester / Year:
2026-2025
160. Description Preparation Date:
26/8/2025
161. Available Attendance Forms:
In the Classroom
162. Number of Credit Hours (Total) / Number of Units (Total)
30 hours
163. Course administrator's name (mention all, if more than one name)
Name: Dr. Huda Abdel Rahim Hussein Email: Huda-abdulrahem@uomosul.ed.iq

164. Course Objectives	
Course Objectives	The objective of teaching this course is to provide students with knowledge in various fields related to advanced information systems, modern systems, and contemporary technologies, especially in light of the rapid transformations in the field of information technology. The student will acquire the ability to identify advanced systems and technologies and how to deal with them, and will present a number of case studies related to contemporary studies and topics.

165. Teaching and Learning Strategies	
Strategy	-1Presenting and discussing case studies related to contemporary topics, evaluating them, and attempting to benefit from them. -2Teaching students the method of dialogue, discussion, and brainstorming to

	reach a deeper understanding of scientific vocabulary.

166. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Digital transformation in contemporary environments	lecture and discussion	Ask and discussion
2	2		For immersive technologies: Augmented reality technology	Lecture and discussion	Ask and discussion
3	2		Immersive Technologies: Virtual Reality Technology	lecture and discussion	Ask and discussion
4	2		Blockchain for Securing Information Systems	lecture and discussion	Ask and discussion
5	2		Metaverse technology	Lecture and discussion	Ask and discussion
6	2		Internet of things	Lecture and discussion	Ask and discussion
7	2		Distributed Learning and Training of ArtificialIntelligence Models	Lecture and discussion	Ask and discussion
8	2		Generative Artificial Intelligence	Lecture and discussion	Ask questions and discuss
9	2		Green intellectual capital.	Lecture and discussion	Ask questions and discuss
10	2		Digital Workplace and Online Friendships in the Workplace.	Lecture and discussion	Ask questions and discuss
11	2		Digital compatibility	lecture and discussion	Ask questions

					and discuss
12	2		Sustainable digital leadership		
13	2		Cyber Identity and Digital Risk Management	Lecture and discussion	Ask questions and discuss
14	2		Cognitive and IT capabilities	Lecture and discussion	Ask questions and discuss
15	2		Digital agility and its relationship to digital maturity	Lecture and discussion	Ask questions and discuss

167. Course Evaluation

9- Final exams 70%
10- monthly tests10%
11- assignments 10%
12- class contribution 10%

168. Learning and Teaching Resources

Lv, Z. (2023). Generative artificial intelligence in the metaverse era. Cognitive Robotics, 3, 208-217. doi:10.1016/j.cogr.2023.06.001 Mannuru, N. R., Shahriar, S., Teel, Z. A., Wang, T., Lund, B. D., Tijani, S., . . . Vaidya, P. (2023). Artificial intelligence in developing countries: The impact of generative artificial intelligence (AI) technologies for development. Information Development. doi:10.1177/02666669231200628 Zlateva, P., Steshina, L., Petukhov, I., & Velev, D. (2024). A Conceptual Framework for Solving Ethical Issues in Generative Artificial Intelligence. In Electronics, Communications and Networks

- Rodríguez de las Heras Ballell, T., & López-Tarruella Martinez, A .)2024(.A European Regulatory Framework for the Metaverse. MetaverseUA Chair Research Paper # 1.

rrirriculum Update Rate 20

أ.م.د. رضا محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form Diploma Program

University : Mosul	College : Management and Economics	Department :Management Information Systems

169. Course Name:
Management Information Systems Security Management / Business Information Technology Diploma
170. Course Code:
AEMI25_F501
171. Semester / Year:
First course 2025-2026
172. Description Preparation Date:
20/8/2025
173. Available Attendance Forms:
Attendance in the classroom
174. Number of Credit Hours (Total) / Number of Units (Total)
30 hours
175. Course Objectives
The objective of this course is to explore how to address information security risks facing organizati and individuals by adopting an information security management mechanism, particularly in light of rapid development of information technology, and developing policies and procedures for this purpose also attempts to explore the philosophical relationship between information security management other important considerations within the organization. Students are taught the physical and softw means of protecting information from external and internal risks and threats, as well as the need disseminate a culture of information security within organizations.
176. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies - Daily oral tests
177. Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs, as well as the presentation of case studies that include theoretical explanations of the subject.

178. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Concept, reasons, importance, characteristics, security objectives, requirements	Introduction to Information Security Management System	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	3	Elements, policies, procedures, guidelines, standards	Information security elements	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	3	Software: encryption and its implementation mechanisms, firewalls, passwords, hardware technologies: devices	Information security implementation techniques	Clarifying concepts, supporting with theoretical	Daily and weekly assignments, weekly reports, daily

		and equipment		and practical examples, asking questions, discussing ideas	exams, weekly exams
4	3	Challenges in the digital age, issues and solutions ininformation security, case studies	Theories of compliance with information security policies, motivations for compliance with information security policies, challenges	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	3	Building information security strategies, stages of strategic planning for information security, implementing an information security strategy	Information security strategies in organizations	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	3	Information security governance framework, information security governance requirements, information security governance standards,	Information Security Governance in Organizations	Clarifying concepts, supporting with theoretical and practical	Daily and weekly assignments, weekly reports, daily exams, weekly

		information security governance levels		examples, asking questions, discussing ideas	exams
7	4	Technical stress on individuals, stress and information security policies, stress models in information security, the impact of stress on privacy, the impact of stress on individual performance	Administrative pressures and information security in the organization	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	4	Information sharing theories, information exchange and information security, ideal policies for information sharing	Information Sharing and Information Security in Organizations	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
9	4	Theories of compliance with information security policies, motivations for compliance with information security policies, challenges	Compliance with information security policies	Clarifying concepts, supporting with theoretical and practical examples, asking	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				questions, discussing ideas	
10	3	Big data security threats challenges and solutions, tools and applications, big data privacy	Individual privacy and information security in the organization	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	3	Costs and benefits of information security, objectives of measuring information security costs, calculating information security costs, difficulties in measuring information security costs, dimensions of information security costs	Information security costs	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	3	Analyzing information security risks, opportunities, threats, strengths, and weaknesses. The importance and characteristics of a SWET security environment analysis.	Information Security and SWET Analysis	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				ideas	
13	3	International standards for information security, requirements for obtaining international standards, requirements for implementing information security standards, case studies	International standards in the field of information security	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	3	Concepts, methodologies, applications, tools, ethical issues in the use of technology, digital citizenship	Information Security Ethics in Organizations	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	3	Cyber security framework, regulations, and recommendations, cybersecurity framework, cyber attacks, requirements and measures, forms of social engineering attacks	Cyber security and Social Engineering	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
179. Course Evaluation					

1. Final exams 70% 2. Tests, activities, and submitted reports 30%	
180. Learning and Teaching Resources	
Required textbooks (methodology if any)	
Main References (Sources)	Information Systems Strategy and Security Policy: A Conceptual Framework -Harold Tewamba, Jean Kamdjoug, Georges Bitjoka, Samuel Wamba, Nicolas Bahanag,(2024), " Effects of Information Security Management Systems on Firm Performance"
Recommended supporting books and referen (scientific journals, reports...)	- Government regulations in cyber security: Framework, standards and recommendations - Information Security Handbook: A Guide for Managers Recommendations of the National Institute of Standards and Technology Pauline
Curriculum update rate	20%

أ.م.د. رمضان محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

أ.د. محمد [illegible]

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

University of Mosul	Course Description Form College of administration and economics	Department of Management Information System

1. Course name and academic level
Data communication/ Higher Diploma
Course code2.
AEMI25_502
3. Semester/Year
Second course 2025-2026
4. Date this description was prepared
26/8/2025
5. Available forms of attendance
Attendance in the classroom
6. (Number of study hours (total) / Number of units (total
30 hours
7. bjectivesCourse o
The course aims to provide students with theoretical knowledge and practical skills related to communication systems and networks in a business environment, with a focus on the fundamental concepts of network types, components, operation methods, uses, and recent developments in the field of communications such as cloud computing and network security.
8.learning methods
- Delivering a lecture

- Listening to individual opinions and ideas
- Discussing and brainstorming ideas
- Discussing ideas and opinions contained in sources
- Case studies
- Daily oral tests

9. Teaching and learning strategies

(Lecture, Discussion, Projects, Brainstorming)

It consists of theoretical explanations of the fundamental concepts of computer networks, in addition to presenting examples and case studies.

10. Course structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowledge Acquisition	Overview of Networks • Why computer networks are created • Components of a computer network • How a computer network is built • Network Interface Cards • Network Media Network Topology	Lecture	Daily and monthly exams
2	2	Acquire knowledge about network types and how to connect each, as well as the function of the network operating system	• Types of networks • Network operating system • Characteristics of network operating systems	Presentation and discussion	Prepare Report

3	2	The student understands how the network operates, the roles of protocols, distinguishes between types of cables and access methods, and knows network characteristics such as Ethernet and Token Ring	• Network operating scenarios • How the network works • Protocol • Network Operating System Layers • Media Access Methods • Data Packets • Network Cables • Types of Networks	lectures, class discussions, and simple practical examples to clarify concepts	Oral questions, short quiz
4	2	Understand how networks are expanded and the equipment used such as repeaters, bridges, routers, and gateways, and comprehend the functions of each in enhancing network performance and expansion	• Expanding of Networks • Equipment used to expand local networks • Repeaters • Bridge devices • Network Backbone equipment • Routers • Network Gateways	Theoretical explanation supported by illustrative diagrams, class discussions, and real-life examples of using this equipment	short questions and a test including analysis of the function of each type of expansion equipment
5	2	The student learns the concepts of	• Making Remote Access • Remote Access through Workstations	Lecture supported by practical	Oral questions and a short quiz to measure

		remote access, its types, and how to establish connections between workstations or between two local area networks, in addition to understanding different types of network connections	• Connection between Two Local Area Networks (LAN-to-LAN) • Types of Connections	examples and interactive discussions on real-life remote network connection scenarios.	understanding of connection mechanisms and linking between networks.
6	2	Understand the basics of network connectivity, different types of Ethernet, Token Ring technology, and evaluate local network components such as physical location, network interface cards, and servers	• Network interface method topology • Overview of network connectivity • Some Ethernet standards IEEE 802.3 • Thick coaxial Ethernet 10Base5 • Thin coaxial Ethernet 10Base2 • Twisted pair Ethernet 10Base-T • Token Ring • LAN evaluation • Physical location • Network functions • Network Interface Cards (NIC) • Server	Theoretical lecture with illustrative diagrams, interactive presentations, and case studies	Short quizzes
7	2	The learner understands the concept of Wireless Local Area Networks	Wireless Local Area Networks (WLAN)	Theoretical lecture explaining the basic concepts	Short test to assess understanding of these concepts

		(WLAN), their features, types, and communication technologies used, in addition to understanding basic WLAN standards such as IEEE 802.11			
8	2	Understand the structure of the OSI model, its layers, and the functions of each layer, in addition to learning about the Internet model and its relation to various networking technologies	• Open Systems Interconnection (OSI) Model • Internet Model	Theoretical explanation with diagrams illustrating the layers and their relationships, along with a comparative study between the OSI model and the Internet model.	Questions to differentiate between the layers and their functions
9	2	The student learns about the role of the Physical Layer in signal transmission and the physical network	Data Link Layer Functions	lecture with examples and diagrams explaining the operation of both layers, along with watching	Practical questions focusing on the functions of each layer and their importance in network communication

		infrastructure, as well as understanding the functions of the Data Link Layer in media access control and error correction		applied videos	
10	2	Knowledge Acquisition	• Transport Layer • Network Layer	Theoretical lecture supported by illustrative diagrams and practical examples explaining the protocols and main functions of each layer	Short questions to measure the student's understanding of routing, addressing, and data transfer concepts
11	2	Knowledge Acquisition	• Presentation Layer • Session Layer	Lecture	Short questions
12	2	The learner understands the role of the Application Layer in providing user interfaces and services such as email, web browsing, and file transfer	Application Layer	Lecture with live examples of various network applications and a study of application layer protocols	Short quiz and practical questions to clarify the role of the Application Layer and its related protocol

13	2	Knowledge Acquisition	• Cloud Computing • Video Conferences • Communication Security	Lecture	Discussion
14	2	Knowledge Acquisition	• Network generations • Recent developments in networks such as Edge Computing, IoT and Networking, Network Virtualization	Lecture	Discussion
15	2		Test + Student Research Discussions		

11. Course Evaluation and Grade Divisions

1. Final exams 70%

2. Tests, activities, and submitted reports 30%

12. Learning and teaching resources

Required textbooks	
(Main References (Sources	Locker, Kitty and Kaczmark, Stephen, 2007,Business Communication,3 edition, McGraw-Hill ,Irwin و New York. Forouzan, Behrouz, Data Communications and Networking, 2007, 4 edition, McGrawHill, New York.
Recommended supporting books and (...references (scientific journals, reports	
Electronic references, websites	
riculum update rateCur	10 %

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul | **College : Management and Economics** | **Department :Management Information Systems**

181. Course Name:
Electronic Business Systems / Diploma Program
182. Course Code:
AEMI25_503
183. Semester / Year:
First course 2025-2026
184. Description Preparation Date:
26/8/2025
185. Available Attendance Forms:
Attendance in the classroom
186. Number of Credit Hours (Total) / Number of Units (Total)
30 hours
187. Course Objectives
The aim of teaching this subject is: To provide students with the knowledge and skills necessary design, manage, and operate online businesses and stores using modern technologies, linking traditio business management concepts with information technology, to enhance productivity, dig marketing, and prepare them for the job market.
188. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Daily oral tests

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

189. Learning Strategies

The main strategy adopted in delivering this course is to encourage student participation in preparing assignments and class discussions, while simultaneously improving and expanding their critical thinking skills. This is achieved through interactive classroom and educational programs.

190. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	The Internet The World Wide Web Digital Businesses What is E-commerce? Benefits of E-commerce	Introduction to E-commerce and E-business	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	2	Barriers to E-commerce The Role of Strategy in E-commerce E-commerce Classifications E-commerce Models Knowledge and Awareness	Introduction to E-commerce and E-business	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	2	Intranet / Benefits of Intranet Why do companies need an intranet?	E-commerce Technologies	Clarifying concepts, supporting with theoretical and	Daily and weekly assignments, weekly reports, daily

		Technology Infrastructure Intranet Planning Intranet Team Formation Email and Intranet What is an Extranet? Extranet Requirements		practical examples, asking questions, discussing ideas	exams, weekly exams
4	2	Advantages and Disadvantages of Online Marketing Online Marketing Techniques Email Marketing Promotion Wireless Advertising Search Engines Affiliate Programs Market Segmentation Market Research E-commerce	Online Marketing	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	2	Customer Acquisition Customer Retention Data Tracking and Analysis Importance of Customer Information Collection Information Collection	Electronic Customer Relationship Management (CRM)	Clarifying concepts, supporting with theoretical and practical examples, asking questions,	Daily and weekly assignments, weekly reports, daily exams, weekly exams

		Methods Information Analysis Customer Behavior		discussing ideas	
6	2	Customer Decision-Making Process Customer Relationship Management (CRM) Applications and Tools Customer Contact Centers Sales Automation One-to-One Marketing Customer Loyalty Benefits and Limitations of CRM	Electronic Customer Relationship Management (CRM)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
7	2	Electronic Payment Methods Credit Card Payments Smart Cards Electronic Wallets Electronic Cash Electronic Bill Payments Benefits of Paying Bills Electronically Electronic Money Transfers Successful Electronic Payments Security Issues in	Electronic Payment Systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

		Electronic Payments			
8	2	What is e-government? Categories of e-government Implementation of e-government Citizen adoption of e-government Obstacles to e-government	E-Government	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
9	2	What is supply chain management? Using modern technologies to support the supply chain Components of the supply chain Supply chain problems and solutions What is logistics? A Simple Supply Chain Model	E-Supply Chain and E-Cooperative E-commerce	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
10	2	Cooperative Commerce and Knowledge Management E-commerce Obstacles Fundamentals of	E-Supply Chain and E-Cooperative E-commerce	Clarifying concepts, supporting with theoretical and practical	Daily and weekly assignments, weekly reports, daily exams,

		Cooperative Commerce Cooperative Internet Portals Types of Cooperative Internet Portals		examples, asking questions, discussing ideas	weekly exams
11	2	Fundamentals of Electronic Auctions and Price Dynamics Set Your Desired Price Model Benefits, Limitations, and Strategies for Using Electronic Auctions Obstacles to Electronic Auctions The Electronic Auction Process and Supporting Software	E-Auctions and Tenders	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	2	Fraud in Online Auctions and How to Protect Against It Methods of Protecting Against Fraud in Online Auctions Rules Followed in Online Auctions Building Online Auction Websites	E-Auctions and Tenders	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
13	2	Introduction to E-commerce Security The Need for Security Key Issues in Internet	E-commerce Security	Clarifying concepts, supporting with theoretical	Daily and weekly assignments, weekly reports,

		Security Types of Online Threats and Attacks Different Types of Threats and Attacks Non-Technical Attacks: Social Engineering Technical Attacks Spoofed Viruses Protecting E-commerce Protecting and Controlling Data Transmission and Verifying Caller Identity Bio-Authentication Systems Cryptography and Public Key Encryption Infrastructure		and practical examples, asking questions, discussing ideas	daily exams, weekly exams
14	2	Private and Public Key Encryption Public Key (Asymmetric) Encryption Electronic Signatures Voice or Hidden Text Secure Electronic Transmission (SET) and Secure Sockets Layer (SSL) Secure Hypertext Transfer Protocol	E-commerce Security	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

		(SHTTP) Digital Certificates Intruder Detection Systems (IDS) and Virtual Private Networks (VPNs) Business Security Steps Password Management Security Objectives Firewalls			
15	2	Measuring the extent to which learning objectives are achieved and students' academic and research skills are developed	Quiz +Student Research Discussion	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

191. Course Evaluation

1. Final exams 70%
2. Tests, activities, and submitted reports 30%

192. Learning and Teaching Resources

Required textbooks (methodology if any)	
Main References (Sources)	The book "E-commerce and E-business from a Technical, Commercial, and Administrative Perspective" by Khader Misbah Al-Titi
Recommended supporting books and referen	

(scientific journals, reports...)	
Electronic references, websites	https://ahmedimrankabir.weebly.com/lecture-slides-e-business.html
Curriculum update rate	20%

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course

193. Course Name:
Business information systems
194. Course Code:
AEMI25_504
195. Semester / Year:
2026-2025
196. Description Preparation Date:
26/8/2025
197. Available Attendance Forms:
In the Classroom
198. Number of Credit Hours (Total) / Number of Units (Total)
30
199. Course administrator's name (mention all, if more than one name)
Name: Dr. Huda Abdel Rahim Hussein Email: Huda-abdulrahem@uomosul.ed.iq
200. Course Objectives

Course Objectives	**1.The student will be introduced to the most important business information systems, their applications, and components.** **.22.Students will acquire the skills specific to each business information system, and will understand its characteristics and areas of use**
	. Students will be introduced to the most important business information systems, identifying the components, applications, and areas of use for each system, and will explore and discuss case studies that illustrate each system individually. They will

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	then arrive at conclusions that will enrich each system and maximize its benefits.

201. Teaching and Learning Strategies

Strategy	**Students learn the method of dialogue, discussion and brainstorming to reach a deeper understanding of scientific vocabulary** **Employing information systems in line with labor market strategies..**

202. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Business Information Systems: Concept, Importance	lecture and discussion	Ask and discussion
2	2		Types of Business Information Systems: Transaction Processing Systems	Lecture and discussion	Ask and discussion
3	2		Management reporting systems	lecture and discussion	Ask and discussion
4	2		Office Automation Systems: Concept, Importance	lecture and discussion	Ask and discussion
5	2		Office automation systems applications	Lecture and discussion	Ask and discussion
6	2		Quantum Computing-Based Information Systems for Big Data Analytics	Lecture and discussion	Ask and discussion
7	2		Communications systems and networks	Lecture and discussion	Ask and discussion

8	2		Decision support systems: concept, importance, development, components	Lecture and discussion	Ask questions and discuss
9	2		Types of support, electronic business decision support systems	Lecture and discussion	Ask questions and discuss
10	2		Artificial Intelligence: Concept, Features	Lecture and discussion	Ask questions and discuss
11	2		Intelligent Information Systems Based on Deep Neural Networks	lecture and discussion	Ask questions and discuss
12	2		Expert Systems: Concept, Stages, Applications	Lecture and discussion	Ask questions and discuss
13	2		Adaptive Information Systems for Digital Supply Chains	Lecture and discussion	Ask questions and discuss
14	2		Knowledge base systems	Lecture and discussion	Ask questions and discuss
15	2		Components and components of knowledge management systems	Lecture and discussion	Ask questions and discuss

203. Course Evaluation

13- Final exams 70%
14- monthly tests10%
15- assignments 10%
16- class contribution 10%

204. Learning and Teaching Resources

Veda C. Storey, Wei Thoo Yue, J. Leon Zhao & Roman Lukyanenk, Generative Artificial Intelligence:2025, Information Systems Frontiers

.Klaus,Dieter Gronwald,(2020), Integrated Business Information Systems, A Holistic View of the Linked Business Process Chain ERP-SCM-CRM-BI-Big Data, Second Edition, r-Verlag GmbH Germany.

Storey, V. C., Yue, W. T., Zhao, J. L., & Lukyanenko, R. (2025). Generative Artificial Intelligence: Evolving Technology, Growing Societal Impact, and Opportunities for Information Systems Research. Information Systems Frontiers, 27, 2081-2102

rrirriculum Update Rate 2(

أ.م.د. رمضان محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

جامعة الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul	College : Management and Economics	Department :Management Information Systems

205. Course Name:
Internet Applications in Business / Diploma
206. Course Code:
AEMI25_505
207. Semester / Year:
Second coures 2025-2026
208. Description Preparation Date:
2026/1/25
209. Available Attendance Forms:
Attendance in the Classroom
210. Number of Credit Hours (Total) / Number of Units (Total)
30 hours
211. Course Objectives
It aims to provide undergraduate students with the tools and knowledge necessary to leverage Internet to enhance business effectiveness and achieve success in the modern digital w environment.
212. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies -Daily oral tests
213. Teaching and Learning Strategies

Strategy	Teaching strategies (lecture, discussion, problem solving, practical projects

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	on website design). **Learning strategies (inference, switching ideas, providing examples).**

214. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Providing students with the ability to understand the function of the Internet in business management and its importance in digital transformation.	introduction to the Internet and its development in the field of business administration	Discussion method	Daily and weekly duties
2	2	Enable students to understand the basic principles of the World Wide Web (WWW) and the difference between browsers and search engines.	The World Wide Web (WWW), web server applications, web browsers, web server security, comparison of web browsers and search engines (Yahoo, Google, Firefox, Internet Explorer, Safari)	Discussion method	Daily and weekly duties
3	2	Enable students to know how to use advanced search options in search engines such as Google (using symbols such as " ", -, and +) to improve the accuracy of results.	Advanced Internet search methods, how search algorithms work	Discussion method	Reports
4	2	Understand wired Internet connection technologies.	Technologies used to establish a wired Internet connection	Discussion method	Daily and weekly duties
5	2	Distinguish between the advantages and	Technologies used to establish a wireless Internet	Presentation Method	Daily and monthly

		disadvantages of each connection type.	connection	Practical	exams
6	2	Enable students to understand the concept of the TCP protocol and its function in networks. Distinguish between TCP and UDP in terms of reliability and transmission speed.	TCP protocol, the relationship between TCP/IP and OSI protocols, working mechanism, components of TCP, UDP protocol	Presentation Method Practical	Reports
7	2	To provide students with the ability to understand the IP address and its importance in networks. Distinguish between the types of IP addresses (static, dynamic, public, and private).	IP address, address types, IPv4, IPv4 classes, with examples, IPv6	Discussion method	Daily and weekly duties
8	2	Understand the structure of an IPv4 address (4 segments, 32 bits). Enable students to understand email and the architecture of email.	Email, email applications, email architectures	Presentation Method Practical	Daily and monthly exams
9	2	Learn about email protocols, mail management, and archiving.	Email protocols, managing and archiving messages via an email server	Presentation Method Practical	Reports

10	2	Enable students to understand the concept and basic functions of the FTP protocol. Identify common applications for using FTP for file transfer. Understand the data encryption mechanism used in FTP.	Applications of the File Transfer Protocol (FTP), the relationship between FTP and email, and the benefits of FTP	Presentation Method Practical	Daily and weekly duties
11	2	Understanding Internet Forums, Their Types, and Participation Rules	Internet forums: structure, technologies used, types, participation rules, and their advantages and disadvantages.	Presentation Method	Report
12	2	Learn about Voice over Internet Protocol (VoIP) technology, its service standards, and technical equipment.	Voice over Internet Protocol (VoIP): Service Standards, Technical Equipment, Benefits, and Features, VoIP Protocols	Presentation method	Daily and weekly duties
13	2	Introduce students to video conferencing, its components, standards, and how to implement them.	Video conferencing, Conference Components, Video Conferencing Standards, Technical Issues in Video Conferencing Applications	Presentation method	Daily and monthly exams
14	2	Providing students with the ability to understand the role of modern artificial intelligence tools in search engine optimization.	The Role of Artificial Intelligence Tools in Search Engine Optimization	Discussion method	Daily and weekly duties

15	2	"The student creates and configures a Google Analytics account for a specific website. The website is linked using the appropriate Tracking ID (via HTML, WordPress, etc.). The student uses the Google Analytics dashboard to view and analyze traffic data".	Using the AI Tool Google Analytics to Track the Number of Visitors to a Specific Website	practical project	Reports

215. Course Evaluation

17- Final exams 70%
18- monthly tests 10%
19- assignments 10%
20- class contribution 10%

216. Learning and Teaching Resources

E-commerce 2025: Business, Technology, Society" by Kenneth C. Laudon and Carol Guercio Traver.

كتاب تطبيقات الانترنت في الدعم الفني، العربية بالمملكة المناهج وتطوير لتصميم العامة الإدارة المهني والتدريب الفني للتعليم العامة المؤسسة السعودية..

كتاب :تصميم وتطوير تطبيقات الويب،د.باسل الخطيب، الجامعة الافتراضية السورية ، الجمهورية العربية السورية ،2018

.1 Coursera
.2 edX:
.3 Google Digital Garage:
.4 HubSpot Academy:
.5 Google Scholar:

Curriculum update rate	20%

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قسم نظم المعلومات الادارية

أ.م.د محمد يونس محمد
عميد الكلية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul	College : Management and Economics	Department :Management Information Systems

217. Course Name:
Business Information Technologies/ Diploma
218. Course Code:
AEMI25_506
219. Semester / Year:
First coures 2025-2026
220. Description Preparation Date:
2025/8/25
221. Available Attendance Forms:
Attendance in the Classroom
222. Number of Credit Hours (Total) / Number of Units (Total)
30 hours
223. Course Objectives
Course Description: The course aims to provide students with a clear understanding of business informat technologies and their role in supporting organizational operations and decision-making. It focuses introducing core IT components, information systems, and digital business applications, while highlight how technology enhances efficiency, competitiveness, and security in modern business environments.
224. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies -Daily oral tests
225. Learning Strategies

The course adopts interactive learning strategies that combine theoretical explanation with practical application. These include lectures, guided discussions, case studies, hands-on activities, and the use of real-world business scenarios to enhance students' understanding of business information technologies and their applications in organizational contexts.

226. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Students will understand how disruptive information technologies affect companies, reshape competition, and influence career opportunities and skills in the modern business environment.	Disruptive IT Impacts Companies,Competition, and Careers	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	2	Students will understand how businesses operate in the on-demand economy and how improving business processes contributes to efficiency, innovation, and sustainable competitive advantage.	Doing Business in the On-Demand Economy Business Process Improvement and Competitive Advantage	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	2	Students will understand the role of IT innovation in driving disruption and transforming business models, markets, and competitive practices.	IT Innovation and Disruption	Clarifying concepts, supporting with future and real-world examples, asking questions,	Daily and weekly assignments, weekly reports, daily exams, weekly exams

				discussing ideas	
4	2	Students will understand the fundamentals of information systems, IT architecture, data governance, and cloud computing, and how these components support efficient, secure, and scalable business operations.	Information Systems, IT Architecture, Data Governance, and Cloud Computing	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	2	Students will understand core information systems concepts and classifications, the structure of IT infrastructure and enterprise architecture, and the principles of information management and data governance in supporting effective organizational performance.	IS Concepts and Classifications IT Infrastructure, IT Architecture, and Enterprise Architecture Information Management and Data Governance	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	2	Students will understand the role of data centers, cloud computing, cloud services, and virtualization in providing scalable, flexible, and efficient IT resources for modern organizations.	Data Centers and Cloud Computing Cloud Services and Virtualization	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

7	2	Students will understand how data management, data analytics, and business intelligence support informed decision-making and strategic performance in organizations.	Data Management, Data Analytics, and Business Intelligence	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	2	Demonstrate knowledge and understanding of course content by effectively preparing for and completing the midterm exam, applying critical thinking and problem-solving skills.	Midterm exam	Exams	Exams
9	2	Students will understand data management principles, database technologies, centralized and distributed database architectures, and the role of data warehouses in supporting organizational analysis and decision-making.	Data Management and Database Technologies Centralized and Distributed Database Architectures Data Warehouses	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
10	2	Students will understand the concepts of data analytics and data discovery, and how business intelligence and electronic records	Data Analytics and Data Discovery Business Intelligence and Electronic Records Management	Clarifying concepts, supporting with future and real-world examples, asking	Daily and weekly assignments, weekly reports, daily exams, weekly exams

		management support effective decision-making and information control in organizations.		questions, discussing ideas	
11	2	Students will understand the role of networks, collaborative technologies, and the Internet of Things in enabling connectivity, communication, and smart business operations.	Networks, Collaborative Technology, and the Internet of Things	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	2	Students will understand how networks, collaborative technologies, and the Internet of Things (IoT) enable seamless communication, teamwork, and the integration of smart devices in modern business environments.	Network Fundamentals Internet Protocols (IP), APIs,and Network Capabilities	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
13	2	Students will understand the role of mobile networks, collaborative technologies, and the Internet of Things (IoT) in supporting connectivity, teamwork, and smart business	Mobile Networks Collaborative Technologies and the Internet of Things (IoT)	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing	Daily and weekly assignments, weekly reports, daily exams, weekly exams

		operations.		ideas	
14	2	Students will understand the evolving nature of cyberthreats, identify potential cyberattack targets, and recognize the consequences of security breaches for organizations.	The Face and Future of Cyberthreats Cyberattack Targets and Consequences	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	2	Students will understand cyber risk management, the role of internal audits and controls, and the application of frameworks, standards, and models to ensure information security and organizational compliance.	Cyber Risk Management Internal Audits and Controls Frameworks, Standards, and Models	Clarifying concepts, supporting with future and real-world examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

227. Course Evaluation

21- Final exams 70%
22- Monthly tests 10%
23- Assignments 10%
24- Class contribution 10%

228. Learning and Teaching Resources

Turban, E., Pollard, C., & Wood, G. (2018). Information technology for management: On-demand strategies for performance, growth and sustainability. John Wiley & Sons

Haag, Stephen, Baltzan , Paige ,Philips ,Amy, ,2008, Business Driven Technology2nd, Irwin McGraw-Hill

Curriculum update rate	20%

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

أ.م.د. رضا محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

أ.م.د. محمد يونس محمد
عميد الكلية

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University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University: Mosul :College Administration and Economics :Department or Branch

Management Information Systems

Course name and academic level .1
Principles of scientific research and analytical skills
Course code .2
AEMI23_507
Semester/Year .3
2026-2025
this description was prepared Date .4
2025
Available forms of attendance .5
(Mandatory attendance for (15 weeks
(Number of study hours (total) / Number of units (total .6
hours / 2 units 2
and (Name of the course supervisor (if more than one name is mentioned .7 .academic title
:Name: Dr. Ahmed Zuhair Tawfiq / Assistant Professor Email **ahmed_zuhair@uomosul.edu.iq**

Course objectives .8	
	Developing the student's ability to develop critical and analytical thinking to identify the negative aspects of ideas to and attempt principles and and ideas solutions find new for scientific applications of .curriculum vocabulary The student should know the nature of scientific research scientific of the definition and emergence of The .research scientific research ent should be familiarThe stud with the objectives, importance and characteristics of scientific .research The student should be familiar the stages and steps of with the And .scientific research stages of development of scientific research methodology
hing and learning strategiesTeac .9	
inference, switching) Learning strategies (ideas, providing examples	**Teaching strategies (lecture, discussion, problem solving, (projects, brainstorming**

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course structure .10					
Evaluation method	**Learning method**	**nit or topicName of u**	**Required learning outcomes**	**watches**	**week**
General questions and discussion	Project method	**Introduction to research, its concept and types**	Developing cognitive understanding	3	1
Daily and weekly duties	Discussion method	**The basic characteristics of ntific research, the rules scie of science, and the deductive method**	Developing cognitive understanding	3	**2**
Daily and monthly exams	practical demonstration ethodm	**The impact of technology on research and some of the applications and programs used**	Developing cognitive understanding	3	**3**
Daily and weekly duties	Discussion method	**Research steps: general definition of the problem, collection of primary data, and ethical issues in .research**	Developing cognitive understanding	3	**4**
General questions and discussion	Project method	**Theoretical framework, definition of variables and their nature**	Developing cognitive tanunderstanding	3	**5**
Gener	practical	**Hypothesis development and testing**	Developing	3	**6**

al questions and discusonsi	demonstration method		cognitive understanding		
Daily and weekly duties	Discussion method	**Research design, defining its objectives and types**	Developing cognitive understanding	3	**7**
Daily and monthly exams	Project method	**Measuring research variables**	Developing cognitive understanding	3	**8**
Reports	practical demonstration method	**Procedural concept and standards**	pinDevelog cognitive understanding	3	**9**
Daily and weekly duties	Discussion method	**Measurement, reliability and validity**	Developing cognitive understanding	3	**10**
Daily and monthly exams	Project method	**Data collection methods interview/questionnaire/obs) ervation), ethics in data collection**	Developing cognitive tanunderstanding	3	**11**
rtsRepo	practical demonstration method	**community, element, community frame, sample**	Developing cognitive understan	3	**12**

			ding		
Daily and weekly duties	Discussion method	**Data analysis and explanation**	Developing cognitive understanding	3	**13**
Daily and monthly exams	Project method	**t and Writing a research repor its basic parts**	Be able to identify and diagnose the problem and identify functional relationships and related informati .on	3	**14**
		Practical cases in writing research	.	3	**15**

Course Evaluation and Grade Divisions .11

The grade is distributed out of 100 based on the tasks assigned to the student, such .ation, daily, oral, monthly and written exams, reports, etcas daily prepar

Learning and teaching resources .12

	(Required textbooks (methodology if any
Uma Sekaran, 2013, Research Methods in Management: An Introduction to kills, translated by Building Research S Ismail Ali Basyouni, Mars Publishing	(Main References (Sources

.House, Amman, Jordan	
Mashhadani, Khaled, Ahmed, 2016, -Al -Scientific Research Methods, Dar Al .Jordan ،Ayyam Publishing, Amman	Recommended supporting books and (...references (scientific journals, reports
Internet	Electronic references, websites
%20	Curriculum update rate

اسم وتوقيع صاحب المقرر

د. احمد حيدر حمدي

أ.م.د. رمضان محمود الابراهيمي
رئيس قسم نظم المعلومات الادارية

جامعة الموصل
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قسم نظم المعلومات الادارية

University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University: Mosul | **College: Management and Economics** | **Department: Management Information Systems**

229. Course Name:
Database management systems / higher diploma
230. Course Code:
AEMI22_508
231. Semester / Year:
Semester two 2025-2026
232. Description Preparation Date:
6/2/2026
233. Available Attendance Forms:
Attendance in the classroom
234. Number of Credit Hours (Total) / Number of Units (Total)
30 hours
235. Course Objectives
Providing students with the basic purpose of databases and enhancing their knowledge of design administrative databases using programs that suit administrative work and meet the needs of the la market, in order to achieve the goal of adopting database management systems.
236. learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources - Case studies - Daily oral tests
237. Learning Strategies
The primary strategy for delivering this course is to encourage students' active participation in preparing assignments and engaging in classroom discussions, while simultaneously enhancing and expanding their critical thinking skills. This is achieved through interactive classroom sessions

and educational programs, as well as the presentation of selected case studies that incorporate theoretical explanations of the course content.

238. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Clarification of concepts, causes, importance, characteristics, objectives of databases, requirements, and elements.	Introduction and basic concepts of the database management system	Clarifying concepts, supporting with theoretical and practical examples, asking questions, and discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
2	2	Clarification of concepts, causes, importance, characteristics, objectives of databases, requirements, and elements.	Principles and components for the design and construction of DBMS (Database lifecycle, data management system languages)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
3	2	Clarification of concepts, causes, importance, characteristics, objectives of databases, requirements, and elements.	**Entity–Relationship Model (ER Model)**	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

4	2	Clarification of concepts, significance, characteristics, and examples	Transforming an ER Diagram into a Database Schema	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
5	2	Clarification of concepts, significance, characteristics, and examples	Normative formulas (reconciliation)1	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
6	2	Clarification of concepts, advantages, significance, and examples	Normative formulas (reconciliation)2	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
7	2	Clarification of concepts, advantages, significance, and examples.	SQL Structural Query Language (basics and queries)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
8	2	Clarification of concepts, causes, significance, characteristics, and	Explanation of DDL, DML, DCL	Clarifying concepts, supporting with theoretical and	Daily and weekly assignments, weekly

		elements.	with examples and clarification of subqueries	practical examples, asking questions, discussing ideas	reports, daily exams, weekly exams
9	2	Clarification of concepts, reasons for use, importance, characteristics, and basics of designing distributed databases	Distributed databases	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
10	2	Clarification of concepts, reasons, importance, elements to be protected in databases, and vulnerabilities in database security	Security and control (Database security and access permissions in database management systems)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
11	2	MySQL ،SQL Server ، Access	Applications in DBMS systems	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
12	2	Case studies and examples	Common problems of databases (case studies)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

13	2	Clarification of concepts, causes, significance, characteristics, and elements	Modern trends in database management systems (Data warehouses, data stores, cloud databases, data silos)	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams
14	2	Student performance assessment	A quarterly exam, interspersed with daily exams	Assessment	Daily and weekly assignments, weekly reports, daily exams, weekly exams
15	2	Practical application	Applying an integrated system with interfaces and reports by students as a project	Clarifying concepts, supporting with theoretical and practical examples, asking questions, discussing ideas	Daily and weekly assignments, weekly reports, daily exams, weekly exams

239. Course Evaluation

1. Final exams 70%
2. Tests, activities, and submitted reports 30%

240. Learning and Teaching Resources

Required textbooks (methodology, if any)	
Main References (Sources)	1- نظم إدارة قواعد البيانات - د. سعد غالب 2- قواعد البيانات – د. مصلح العضايلة منال العلائقية -د. SQL 3- نظم إدارة قواعد البيانات: قواعد البيانات البلقاسي 4- Coronel, C. and Morris, S. (2019). Database Systems: Design, Implementation, and Management. 13th edn. Boston, MA: Cengage Learning.
Recommended supporting books	1- Elmasri, R. and Navathe, S.B. (2016) Fundamentals of

references (scientific journals, reports...)	Database Systems, 7th edn. Boston: Pearson. 2- Silberschatz, A., Korth, H.F. and Sudarshan, S. (2020) Database system concepts, 7th edn. New York: McGraw-Hill Education. 3 .Gehrke, J. and Ramakrishnan, R. (2003) Database management systems, 3rd edn. New York: McGraw-Hill.
Curriculum update rate	20%

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University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University : Mosul	College : Management and Economics	Department :Management Information Systems

241. Course Name:
Specialized Management Information Systems / Higher Diploma
242. Course Code:
AEMI24_509
243. Semester / Year:
First course 2025-2026
244. Description Preparation Date:
26/8/2025
245. Available Attendance Forms:
Mandatory attendance for (15 weeks)
246. Number of Credit Hours (Total) / Number of Units (Total)
30
247. Course administrator's name (mention all, if more than one name)
Name: Dr. Faraj Naghamish Faraj Al-Shammari Email: farag_farag@uomosul.edu.iq
248. Course Objectives

Course Objectives	**Providing students with information on specialized managem information systems, such as human resources information syste production information systems, marketing information syste**

	financial information systems, decision support systems, exp systems, business intelligence, smart agents, e-collaboration, metave technology, the Internet of Things, and artificial intelligence, identifying the beneficiaries who interact with the system.

249. Teaching and Learning Strategies

Teaching strategies (lecture, discussion, problem solving, projects, brainstorming)	Learning strategies (inference, switchi ideas, providing examples)

250. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	1	Human Resource Information Systems	traditional lecture	Participation
2	3	1	Production Information Systems	traditional lecture	Participation
3	3	1	Marketing Information Systems	traditional lecture	Participation
4	3	2	Financial Information Systems	Discussion with the use of Data Show	Participation
5	3	1	Decision	Discussion	surprise test

			Support Systems (DSS)	with the use of Data Show	
6	3	2	Group Decision Support Systems (GDSS)	Traditional lecture with discussion of ideas	Participation
7	3	2	Expert Systems	Problem analysis with case studies	Participation
8	3	2	Intelligent Agents	Discuss ideas with case studies	Participation
9	3	2	Electronic Collaboration	Discuss ideas with case studies	Participation
10	3	2	Metaverse Technology	Discuss ideas with case studies	midterm exam
11	3	1	Internet of Things	Traditional lecture with case studies	Participation in case studies
12	3	1	Business Intelligence	Traditional lecture	Participation

				with case studies	
13	3	4	Cloud Computing	Problem analysis with case studies	Participation
14	3	4	Semester Exam	traditional lecture	Participation
15	3	4	Artificial Intelligence	traditional lecture	Participation

251. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

252. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Kenneth C. Laudon ،Jane Price Laudon, 2014, Management Information Systems: Managing the Digital Firm
Recommended books and references (scientific journals, reports…)	Al-Taie, Muhammad Abdul Hussein, Advanced Management Information Systems
Electronic References, Websites	The Internet, Iraqi Academic Scientific Journals, YouTube

أ.م.د. رمضان محمود الابراهيمي
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الموصل
كلية الادارة والاقتصاد
قسم نظم المعلومات الادارية

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University of Mosul
College of Administration and Economics
Department of Management Information Systems
Graduate Studies

Course Description Form

University of Mosul	College of administration and economics	Department of Management Information System

1. Course name and academic level
English/ Higher Diploma degree
Course code2.
AEMI25_610
3. Semester/Year
First course 2025-2026
4. Date this description was prepared
26/8/2025
5. Available forms of attendance
Attendance in the classroom
6. Number of study hours
30 Hours
7. Course objectives
• Develop foundational academic skills essential for university success. Enhance reading, writing, and study skills to support effective learning and communication.
8.learning methods
- Delivering a lecture - Listening to individual opinions and ideas - Discussing and brainstorming ideas - Discussing ideas and opinions contained in sources

- Case studies
- Daily oral tests

9. Teaching and learning strategies

The course employs a mix of interactive teaching methods to deepen students' understanding and application of concepts. Strategies include:

- Lectures supported by visual aids (e.g., Data Show presentations)
- Classroom discussions to foster critical thinking
- Collaborative learning through group activities

Homework assignments and short quizzes to reinforce self-learning and monitor progress

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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	- Going abroad to study (Following instructions: filling in forms Reading methods: skim; scan; intensive reading; extensive reading) - A host family (Checking your writing: error correction - punctuation and spelling Writing an informal email)	International student	- Guided reading exercises using authentic forms and travel documents - Group activities practicing different reading strategies Pair work and peer discussion - Teacher-	Reading quizzes testing comprehension through skimming and scanning

				led explanation and modeling of reading techniques	
2	2	- READING Three countries (Skimming and scanning: reading for the general idea, and for particular information) - WRITING My country (Brainstorming ideas: topic areas and examples; completing a paragraph Linking ideas (1): but, however, although Writing a description of my country)	Where in the world	Guided practice with questions targeting both reading techniques	Reading quiz with general and specific information questions
3	2	- READING An unexpected journey (Predicting content: using the title and the pictures Meaning from context: guessing the meaning of new words) - WRITING Mistaken identity	Newspaper articles	Vocabulary-in-context activities with selected excerpts	Completion of a worksheet matching new words to meanings from context

		(Sentences/Paragraphs ; helping your writing flow Varying the structure: making writing interesting Writing an article)			
4	2	- READING Innovations (Identifying the main message: using topic sentences to identify paragraph content) - WRITING Technology - good or bad? (Organizing ideas (1): planning the arguments for and against Linking ideas (2): first, for instance, in conclusion ...Writing a discursive essay)	Modern technology	Practice using linking expressions (e.g., first, for instance, in conclusion) Drafting and peer-reviewing discursive essays	Short quiz on linking phrases and essay structure
5	2	- READING A conference in Istanbul (Purpose and audience (1 and 2): using visual and written clues) - WRITING Invitations (Using formal expressions: writing academic emails and letters Writing a formal email)	Conferences and visits	Group discussion on audience and purpose using clues from visuals/texts	Write formal academic emails or letters using appropriate structure and language

6	2	READING Air pollution (Making notes: organizing recording, and remembering important information Interpreting meaning; recognizing fact and speculation) WRITING Trends (Paraphrasing and summarizing: using other sources Writing a summary)	Science and our world	Guided reading with note-taking practice using structured templates	Note-taking assignment based on a reading passage
7	2	- READING Three famous writers (Using original sources: dealing with difficult language and unknown vocabulary) - RESEARCH Information on the Net (Using the Internet; search engines; online encyclopaedias; subject directories Developing a search plan: making a search efficient and reliable)	People: past and present	Pre-teaching of key vocabulary and historical context	Vocabulary quiz (contextual meanings)
8	2	- READING Computers	The world of IT	Pre-reading vocabulary	Vocabulary quiz

		(Rephrasing and explaining; dealing with difficult scientific and technological words Avoiding repetition (2): pronouns and what they refer to) - WRITING IT - benefits and drawbacks (Linking ideas (3): cause and result Coherent writing; writing up notes Writing from notes)		activities focusing on technical terms	(rephrasing and synonyms)
9	2	- READING How things work (Intensive reading: strategies for focusing your reading Linking ideas (4); sequencing words to describe a process) - WRITING How things are made (The passive voice; writing in a neutral style Clarifying a sequence: describing a process Writing a description of a process)	Inventions, discoveries, and processes	Group discussions and Write in a neutral, formal academic style	Reading comprehension quiz focusing on sequencing and linking words and In-class rewriting exercises

10	2	- READING International tourism (Interpreting data: statistical information in graphs, charts, and texts) - VOCABULARY DEVELOPMENT Varying vocabulary (Avoiding repetition (3): describing graphs using synonyms, adjectives + nouns, verbs + adverbs)	Travel and tourism	Exercises on reading and interpreting different types of graphs and charts	Quiz on interpreting data from graphs and charts
11	2	Topic sentences and supporting details Using cohesive devices for flow (transitions, referencing) Paragraph unity and development Practice writing well-structured academic paragraphs	Academic Paragraph Writing and Coherence	Analysis of sample paragraphs highlighting topic sentences and cohesion	Writing assignments focused on paragraph construction and coherence
12	2	Exercises on paraphrasing and precise word choice	Paraphrasing versus quoting		Writing assignments
13	2	Purpose and structure of an academic introduction	Writing Introductions and Thesis Statements	Analyzing sample introduction	

		Crafting clear and arguable thesis statements Strategies to engage the reader academically		s	
14	2	Understanding sections: abstract, introduction, literature review, methodology, results, discussion, conclusion Logical flow between sections Signposting language to guide the reader Practice outlining a full paper or thesis	Structuring an Academic Paper or Thesis	Analysis of sample papers to identify structure and flow	Writing assignments
15	2	Purpose and structure of an academic abstract Differences between informative and descriptive abstracts Writing effective, concise, and relevant titles Practice writing abstracts and revising weak titles	Writing Abstracts and Titles	Analysis of sample papers	Writing assignments

11. Course Evaluation and Grade Divisions	
1. Final exams 70% 2. Tests, activities, and submitted reports 30%	
12. Learning and teaching resources	
Required textbooks	
(Main References (Sources	Philpot, Sarah (2013). *Headway Academic Skills: Reading, Writing, and Study Skills. Student's Book. Level 2*. Oxford University Press.
Recommended supporting books and (...references (scientific journals, reports	
references, websites Electronic	
Curriculum update rate	10 %

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رئيس قسم نظم المعلومات الادارية

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