


Course Description Form

Diploma in Industrial Management

Course Description Form

1. Course Name: Maintenance & Replacement management	
2. Course Code: IM4155MM	
3. Semester / Year: first	
4. Description Preparation Date: 1/9/2024	
5. Available Attendance Forms: Mandatory attendance for 15 weeks	
6. Number of Credit Hours (Total) / Number of Units (Total): (2 hours per week)	
7. Course administrator's name (mention all, if more than one name)	
Name: assistant Professor Ryad J. Wahab	
Email: reyad_jamel@uomosul.edu.iq	
8. Course Objectives	

Course Objectives	<ol style="list-style-type: none"> 1. Learn the student concepts of maintenance management and how solve the problem in systematic . 2. Ability to develop new methods to do the maintenance in efficiency . 3. Regular assessment to maintenance polices to check its effective .
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1. Lecture and seminars method. 2. Discussion method. 3. the reports and assignments .
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			<p>Introduction to maintenance management: concepts, principles and functions</p> <p>Classifications of maintenance types</p> <p>Introduction to the holidays</p> <p>Administrative activities of the maintenance department</p> <p>Trade-offs between maintenance policies</p> <p>Maintenance costs</p> <p>Work order system</p> <p>Indicators for measuring maintenance performance</p> <p>Reliability engineering for machines and equipment</p> <p>Replacement of machinery and equipment</p> <p>Industrial maintenance and safety</p> <p>Risk based maintenance</p> <p>Green maintenance</p> <p>Contemporary approaches in the field of maintenance</p>		

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name: Diploma in Industrial Management	
Principles of Scientific Research	
2. Course Code:	
AEIM24-5010	
3. Semester / Year:	
2023 (second course)	
4. Description Preparation Date:	
15/11/2024	
5. Available Attendance Forms:	
Attendance only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours in the course. 3 hours weekly	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof . Dr . Ali Abdul Sattar Al-Hafidh	
Email: ali_abdulsatar@uomosul.edu.iq	
8. Course Objectives	
<ul style="list-style-type: none"> a. Understand basic concepts. B. Understanding theories. c. The ability to analyze. d. Use reference sources. e. Application of knowledge. f. critical thinking . g. Sustainable learning. h. Learn about technology 	<p>Providing the student with knowledge of how to use modern technologies and applications</p> <p>Knowledge management to enable him to understand and understand how to deal with what he possesses The human resource of knowledge and its exploitation in a way that achieves a competitive advantage</p> <p>For the organization</p>
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> a. Case studies and practical projects. B. Group discussions. c. Use of multimedia. d. Active learning techniques. e. Use of information and communications technology. f. Stimulate critical thinking. g. Encouraging cooperative learning.



h. Provide constructive feedback.

These strategies can help enhance the students' learning experience and achieve the learning objectives set for the Principles of Management course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2hours	a. Teaching and learning methods C. thinking skills Developing knowledge management skills Dealing with intellectual capital What exists in the organization and how Developing employees' skills in form Which leads to achieving an advantage Competitiveness by developing this the supplier D. General and transferable skills Other related skills Employability and development potential (personal)	Principles of Science Research	Study lectures / Video explanation For study cases/ Case studies of organizations	Exams (daily, monthly, quarterly, surprise). Reports Daily posts Khadour
2	2 hours				
3	2 hours				
4	2 hours				
5	2 hours				
6	2 hours				
7	2 hours				
8	2 hours				
9	2 hours				
10	2 hours				
11	2 hours				
12	2 hours				
13	2 hours				
14	2 hours				
15	2 hours				



11. Course Evaluation

Formative assessment Daily tests 2 5 (5%)
 Reports 1 5 (% 5)
 Posts 1 5 (% 5)
 Practical test 2 5 (10%)
 Final evaluation Semester exam 2 hours 20 (10%)
 Final exam: three hours 60 (50%)
 Final score 100 (100%)

12. Learning and Teaching Resources


Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...) Modern books in the field of specialized knowledge management in the industrial sector	
Electronic References, Websites Freely extracted from the NHS /	

Course Description Form

13.	Course Name:
	Environmental management and sustainability
14.	Course Code:
	AEIM1
15.	Semester / Year: second/ Diploma
16.	Description Preparation Date: 15/9/2024
17.	Available Attendance Forms:
	Mandatory attendance for 15 weeks
18.	Number of Credit Hours (Total) / Number of Units (Total):
	(2 hours per week)
19.	Course administrator's name (mention all, if more than one name)
	Name: amal sarhan suleman Email: amal- sarhan@uomosul.edu.iq
20.	Course Objectives
Course Objectives	<ul style="list-style-type: none">• Providing students with cognitive skills in environmental management and sustainability, focusing

	on cases in industrial organizations, which qualifies them and increases their readiness to assume the tasks and responsibilities of working in business organizations in general.
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21. Teaching and Learning Strategies

Strategy	1. Lecture and seminar method. 2. Discussion method.	
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22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	- Understanding what environmental management is	- The nature of environmental management:	1. Lecture and seminar method.	Quick exams, asking oral questions, and the ability to discuss
2	2	-	historical development,	2. Discussion method.	
3	2	- Understanding the principles of environmental management	concept, relationship between management and the environment,		
4	2	- Understanding what environmental management tools and techniques are	importance and objectives of environmental management,		
5	2	- Understanding what environmental management indicators are	adoption of environmental management in the organizational structure.		
6	2	- Understanding life cycle assessment			
7	2	- The specification series			

8	2	-	- Understanding the concept of risk management systems	-	- Principles of environmental management, motivations for adopting environmental management, advantages and disadvantages.		
9	2	-	- Understanding industrial environmental management	-	- Environmental management techniques and tools:		
10	2	-		-	environmental policy,		
11	2	-	- Understanding the green university	-	environmental management systems,		
12	2	-	- Understanding total quality management	-	environmental auditing.		
13	2	-	- Understanding environmental performance evaluation	-	- Environmental indicators: What are indicators?		
14	2			-	ISO 14000 International Standard for Environmental Quality		
15	2			-	- Environmental Risk Management Systems		
				-	- Environmental Risk Assessment		
				-	- Industrial Environmental Management		
				-	- Green Universities		
				-	- Sustainability and Recycling		



			<ul style="list-style-type: none"> - Total Quality Management (TQEM) - Environmental Performance Evaluation - Report Discussion - Tests 		
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23. 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

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-
Main references (sources)	Books of Environmental management and sustainability
Recommended books and references (scientific journals, reports...)	-
Electronic References, Websites	

Course Description Form

25.	Course Name: International standards and quality awards
	Work Study and Ergonomics
26.	Course Code:
27.	Semester / Year: First/ Diploma
28.	Description Preparation Date: 15/9/2024
29.	Available Attendance Forms:
	Mandatory attendance for 15 weeks

30. Number of Credit Hours (Total) / Number of Units (Total):					
(2 hours per week)					
31. Course administrator's name (mention all, if more than one name)					
Name: assistant Professor Dr. Abdulazez Bashar Haseeb Email: abd_alazez_bashar@uomosul.edu.iq					
32. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> To provide students with cognitive skills in work study and ergonomics by focusing on cases in industrial organizations, in a way that qualifies them and increases their readiness to carry the tasks and responsibilities to work in business organizations in general. 		
33. Teaching and Learning Strategies					
Strategy		1. Lecture and seminar method. 2. Discussion method.			
					
34. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	- Identify the Introduction to Work Study	- Introduction to Work Study	1. Lecture and seminar method. 2. Discussion method.	Quick exams, asking oral questions, and the ability to discuss
2	2	- Identify the Introduction to Work Study	- Introduction to Work Study		
3	2	- Understand the work measurement	- work measurement		
4	2		- Time study		

5	2	- Understand Time study - Identify motion study	- Motion study		
6	2	- Understand Principles of Motion Economics	- Principles of Motion Economics		
7	2	- Identify Work by inspection	- Work by inspection		
8	2	- Understand Workforce Management Technology	- Workforce Management Technology		
9	2	- Identify Ergonomics	- Ergonomics		
10	2	- Understand Ergonomics fields related to the human body	- Ergonomics fields related to the human body		
11	2	- Understand Ergonomics applications	- Ergonomics applications		
12	2	- Understand Ergonomics rules	- Ergonomics Rules		
13	2	- Understand Characteristics and specifications of the human body	- Characteristics and specifications of the human body		
14	2	- Identify Work injuries and diseases	- Work injuries and diseases		
15	2	- Identify Work injuries and diseases	- Work injuries and diseases		



35. 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

36. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	-
Main references (sources)	Books of work study and ergonomics
Recommended books and references (scientific journals, reports...)	-
Electronic References, Websites	-



Course Description Form

1. Course Name:	
Industrial Logistics Management	
2. Course Code:	
AEIM	
3. Semester / Year:	
Chapter One / (First Course)	
4. Description Preparation Date:	
1/9/2024	
5. Available Attendance Forms:	
Mandatory attendance for 15 weeks	
6. Number of Credit Hours (Total) / Number of Units (Total):	
(2 hours per week)	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Ali Waleed Hazim	ali_waleed @uomosul.edu.iq
8. Course Objectives	
- Teaching students the basics of logistics and supply chain management.	
- Training students through case studies of global companies.	
9. Teaching and Learning Strategies	
Strategy	1. Lecture and seminar method. 2. Discussion method.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Industrial Logistics Management	Logistics and Supply Chain: Evolution		
2	2		Logistics Activity in the Supply Chain		
3	2		Supply Chain and Demand Chain		
4	2		Value Addition Across the Supply Chain		
5	2		Supply Chain Planning		
6	2		Purchasing in the Supply Chain		
7	2		E-Procurement		
8	2		Semester Exam		
9	2		Distribution Decisions		
10	2		Transportation and Shipping Management in the Supply Chain		
11	2		Inventory Management in the Supply Chain		
12	2		Supply Chain Information Systems in the Supply Chain		
13	2		Case Studies: Supply Chains of Global Companies		
14	2		Report Discussion Panels		
15	2		Report Discussion Panels		
16	2		Final Exam		



11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Sople, Vinod V. (2012). Supply Chain Management.Text and Cases.
Recommended books and references (scientific journals, reports...)	Harrison, Alan& Hoek, Remko van. (2008) Logistics Management and Strategic Competing through the supply chain
Electronic References, Websites	



Course Description Form

Quality Management Diploma



Course Description Form

Course Name: Expert systems and artificial intelligence

1. Continuous improvement: Higher Diploma /Quality Management

2. Course Code: IM4155AI

3. Semester / Year: Frist

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Dr. Bassam Muneeb Ali/ Assistant Prof

basam_moneb@uomosul.edu.iq

8. Course Objectives

Course Objectives

9. Teaching and Learning Strategies

Strategy

1. Lecture and seminar method.

2. Discussion method.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3 Hours		Continuous improvement of quality in the production and services sector.		Monthly daily examinations
2	3 Hours		history of continuous improvement and the concepts associated with it.		Final examination
3	3 Hours		Continuous improvement tools		
4	3 Hours		Continuous improvement models		
5	3 Hours		PDCA, DMAIC RADAR		
6	3 Hours		Gemba - Kaizen.		
7	3 Hours		The concept of work teams in continuous improvement		
8	3 Hours		Problem Solving		
9	3 Hours		Spreading a culture of continuous improvement in industrial and service organizations		
10	3 Hours		The relationship of continuous improvement to modern manufacturing systems		
11	3 Hours				
12	3 Hours				
13	3 Hours				
14	3 Hours				
15	3 Hours				



11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-
Recommended books and references (scientific journals, reports...)	-Singh .Jagdeep , Singh .Harwinder , 2019, "Strategic Implementation Of Continuous Improvement Approach Improving The Performance Of Small And Medium-Sized Enterprises", Springer International Publishing -Imai .Masaaki, 2012, "Gemba Kaizen A Commonsense Approach to a Continuous Improvement Strategy", 2 nd Edition, McGraw Hill, USA
Electronic References, Websites	some online sources

Course Description Form

1. Course Name: Total Quality Management

2. Course Code: AEIMQ24-506

3. Semester / Year: first /first

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Assistant Professor Dr. Omar Ali Ismail

Email: Omer_ali@uomosul.edu.iq

8. Course Objectives

Course Objectives



- Teaching students the foundations and principles of total quality management and the approved approaches to it.
- Review applications and case studies for global organizations.

9. Teaching and Learning Strategies

Strategy

1. Lecture and seminar method.
2. Discussion method.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			- Understanding quality. - Digitization and Transformation - Operational Challenges in Total Quality Management.		

			<ul style="list-style-type: none"> - Total quality management models and frameworks. - Total quality management models and frameworks. - Leadership and commitment in total quality management. - Leadership and commitment in total quality management. - Policy, strategy and goal diffusion in total quality management. - Policy, strategy and goal diffusion in total quality management. - Participation and resource management in total quality management. - Performance measurement frameworks in total quality management. - Implementing total quality management. - Case studies: Total quality management process at Nissan. - Case studies: Implementing total quality management and disseminating the policy in a company. - STMicronics. - Case studies: Total Quality Management at AT&T. - the exam . 		
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11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Oakland, J. S. (2022). Total quality management and operational excellence.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name: International standards and quality awards

2. Course Code: AEIMQ24-506

3. Semester / Year: Second/first

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Assistant Professor Dr. Omar Ali Ismail

Email: Omer_ali@uomosul.edu.iq

8. Course Objectives

Course Objectives



- - Introducing the student to the quality specifications issued by the International Organization for Standardization.
- - Introducing the student to quality awards and updates on them.


9. Teaching and Learning Strategies

Strategy

1. Lecture and seminar method.
2. Discussion method.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			<ul style="list-style-type: none"> - Introduction to international specifications - Historical development of 		

			international standards - Quality management systems specification ISO 9001:2015 - Environmental management systems standard ISO 14001:2015 - Specification for management systems for educational organizations, ISO 21001:2018 - Occupational Health and Safety Management Standard ISO 45001:2018 - Laboratory quality standard ISO 17025:2017 - Agricultural crop quality standard ISO 22006:2009 - International Quality Awards - Deming Award - Malcolm Baldrige Award - European Excellence Award - Proposal for a national award - Discussing reports - Exam		
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11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Oakland, J. S. (2022). Total quality management and operational excellence.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

Course Name: Expert systems and artificial intelligence

1. Strategic approach to quality management

2. Course Code: IM4155AI

3. Semester / Year: second

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (2 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Dr. Bassam Muneeb Ali/ Assistant Prof

basam_moneb@uomosul.edu.iq

8. Course Objectives

Course Objectives

9. Teaching and Learning Strategies

Strategy

1. Lecture and seminar method.
2. Discussion method.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 Hours		Strategic management		Monthly
2	2 Hours		Strategic Planning.		daily
3	2 Hours		Strategic direction.		examinations
4	2 Hours		Strategic quality		
5	2 Hours		management and th		Final examination

6	2 Hours			
7	2 Hours			
8	2 Hours			
9	2 Hours			
10	2 Hours			
11	2 Hours			
12	2 Hours			
13	2 Hours			
14	2 Hours			
15	2 Hours			
			difference between and total quality management. Planning and organizing quality management. (Hoshin Kanri). The relationship between strategic quality management and method / s'Tzu The relationship between quality management and certain concepts in management and quality management	

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-
Recommended books and references (scientific journals, reports...)	Some Arabic and foreign sources
Electronic References, Websites	some online sources



Course Description Form

1. Course Name: Quality Management System					
2. Course Code: AEIM24-					
3. Semester / Year: Second/Diploma of Industrial Management					
4. Description Preparation Date: 2024					
5. Available Attendance Forms: Mandatory attendance for 15 weeks					
6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)					
7. Course administrator's name (mention all, if more than one name) Name: Assistant Professor Dr. Ahmed Hani Mohammed Email: ahmed_hani@uomosul.edu.iq					
8. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> The student's definition of Quality Management system and its areas of use. Introducing the student to concepts under Quality Management System 		
9. Teaching and Learning Strategies					
Strategy		1. Lecture and seminar method. 2. Discussion method.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			-An introductory introduction to quality in the production and services sector		



Quality management/functional and strategic approach
 Quality management philosophies/1
 Quality management philosophies/2
 Dimensions of quality and costs of quality
 Quality rings
 Product quality assurance system
 Company quality assurance system
 Semester exam
 continuous improvement
 Quality Function Deployment QFD, Green
 Quality Function Deployment GQFD
 Six Sigma Diffraction
 ISO series of international quality standards (the most widely used specifications)
 Semester exam + research discussion
 Research discussion

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Luthra, S., Garg, D., Agarwal, A., & Mangla, S. K. (2020). Total Quality Management (TQM): Principles, Methods, and Applications. CRC Press.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	www.iso.org

Course Description Guide MASTER

Course Name: Expert systems and artificial intelligence

1. Logistics management

2. Course Code: AEIM24-602

3. Semester / Year: second

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (2 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Dr. Bassam Muneeb Ali/ Assistant Professor

basam_moneb@uomosul.edu.iq

8. Course Objectives

Course Objectives



Introducing the student to logistics management, its importance, and how to organize it.
Introducing the student to basic and supporting logistics activities
concept of purchasing, storage, transportation and distribution
Introduction to the supply chain and its most prominent risks
concept of green logistics

9. Teaching and Learning Strategies

Strategy	1. Lecture and seminar method. 2. Discussion method.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 Hours		Logistics management		
2	2 Hours		(concept and history)		
3	2 Hours		development).		
4	2 Hours		Logistics management		
5	2 Hours		planning and organization		
6	2 Hours		Basic and support		
7	2 Hours		logistics management		
8	2 Hours		activities		
9	2 Hours		Purchasing activities		
10	2 Hours		storage activities		
11	2 Hours		transportation activities		
12	2 Hours		distribution activity		
13	2 Hours		Logistics management		
14	2 Hours		challenges		
15	2 Hours		Green logistics		
			Supply chain management		
			Supply chain risks		
			Lean Supply Chain		
			inverse Supply Chain.		
			Outsourcing		

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Recommended books and references (scientific journals, reports...)	Some Arabic and foreign sources
Electronic References, Websites	Some online sources



Course Description Form

1. Course Name:	
knowledge management	
2. Course Code:	
AEIM24-6013	
3. Semester / Year:	
2023 (second course)	
4. Description Preparation Date:	
15/11/2024	
5. Available Attendance Forms:	
Attendance only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours in the course. 3 hours weekly	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Ali Abdul Sattar Al-Hafidh Email: ali_abdulsatar@uomosul.edu.iq	
8. Course Objectives	
a. Understand basic concepts. B. Understanding theories. c. The ability to analyze. d. Use reference sources. e. Application of knowledge. f. critical thinking . g. Sustainable learning. h. Learn about technology	Providing the student with knowledge of how to use modern technologies and applications Knowledge management to enable him to understand and understand how to deal with what he possesses The human resource of knowledge and its exploitation in a way that achieves a competitive advantage For the organization
9. Teaching and Learning Strategies	
Strategy	a. Case studies and practical projects. B. Group discussions. c. Use of multimedia. d. Active learning techniques. e. Use of information and communications technology. f. Stimulate critical thinking. g. Encouraging cooperative learning. h. Provide constructive feedback.



These strategies can help enhance the students' learning experience and achieve the learning objectives set for the Principles of Management course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3 hours	a. Teaching and learning methods C. thinking skills Developing knowledge management skills Dealing with intellectual capital What exists in the organization and how Developing employees' skills in form Which leads to achieving an advantage Competitiveness by developing this the supplier D. General and transferable skills Other related skills Employability and development potential (personal)	Industrial knowledge management	Study lectures / Video explanation For study cases/ Case studies of organizations	Exams (daily, monthly, quarterly, surprise). Reports Daily posts Khadour
2	3 hours				
3	3 hours				
4	3 hours				
5	3 hours				
6	3 hours				
7	3 hours				
8	3 hours				
9	3 hours				
10	3 hours				
11	3 hours				
12	3 hours				
13	3 hours				
14	3 hours				
15	3 hours				

11. Course Evaluation

Formative assessment Daily tests 25 (5%)
 Reports 15 (% 5)
 Posts 15 (% 5)
 Practical test 25 (10%)
 Final evaluation Semester exam 2 hours 20 (10%)
 Final exam: three hours 60 (50%)
 Final score 100 (100%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	

Recommended books and references (scientific journals, reports...) Modern books in the field of specialized knowledge management in the industrial sector	
Electronic References, Websites Freely extracted from the NHS / -ESSENTIALS of Knowledge Management / Bryan Bergeron 2003 - knowledge management in organizations / DONALDH ISLOP / 2005	



Course Description Form

1. Course Name:

Financial management

2. Course Code:

AEIM24-603

3. Semester / Year:

The socend is 2024-2025

4. Description Preparation Date:

1/9/2024

5. Available Attendance Forms:

Classrooms

6. Number of Credit Hours (Total) / Number of Units (Total)

2/2

7. Course administrator's name (mention all, if more than one name)

Name: D.R. Doaa Noman Al-Husseini

Email: duaa_numaan@uomosul.edu.iq

8. Course Objectives

Course Objectives



Developing and activating the creative and applied capabilities of students in various financial and banking fields.

2-Developing the knowledge partnership between the department and the labor market.

3- Providing students with knowledge of all program specializations

4- Developing mental abilities by expanding the cognitive horizon for all program specializations

5- The ability to analyze problems

6- Applying theoretical concepts, rules and laws

7- Giving students the ability to link various financial and banking variables

8- Evaluating and judging applied cases

9- The ability to discover problems and solve them in modern ways

10 - Using real-life examples and matching them with theoretical studies

11 - Developing capabilities to use modern technologies in financial and banking sciences

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> -Lecture with discussions -Preparing reports according to approved vocabulary - Daily, weekly, monthly homework - Daily and quarterly tests - smart board -Power Point questions and answers
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introducing the objectives financial management	Basics of financial management	Theoretical lecture	discussion
2-3	2	Types of financial markets	Financial environment	Theoretical lecture	discussion
4-5	2	Analysis indicators	Financial analysis	Theoretical lecture	Discussion
6-7	2	Policies followed	Working capital	Practical lecture	Discussion
8-9	2	Project evaluation method	Investment decision	Theoretical lecture	Discuss and review practical research
10-11	2	Financing policies	Financing decisions	Theoretical lecture	Discussion
12	2	Measurement methods	Financial sustainability	Theoretical lecture	Discussion
13	2	Policy classification	Profit distribution policies	Theoretical lecture	Discussion
14	2	Contemporary studies	Specialized topics	Theoretical lecture	Discussion
15	2				Test

11. 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

Final exam: 70 marks

Semester exam: 10 marks

Daily exam: 5 marks

Daily preparation 5 degrees

Report 10 marks

12. Learning and Teaching Resources

Required textbooks (curricular books, if a	Eugene F.Brigham & Michael C . Ehrhardt , Finan Management,2008 .
Main references (sources)	Muhammad Ali Al-Amiri, Advanced Finan Management, 2010
Recommended books and references (scientific journals, reports...)	Al-Rafidain Development Journal
Electronic References, Websites	www.isx- iq.net/isxportal/portal/homePage.html



Course Description Form

1. Course Name: Maintenance and replacement management

2. Course Code: AEIM24-608

3. Semester / Year: Second/first

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (2 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Assistant Professor Dr. zahraa ghazi thanoon

Email: zahraa_ghazi@uomosul.edu.iq

8. Course Objectives

Course Objectives

- Introducing the student to maintenance management and its types.
- Introducing the student to the types of malfunctions and methods of reliability and replacement

9. Teaching and Learning Strategies

Strategy

1. Lecture and seminar method.
2. Discussion method.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			-Introduction to maintenance management: (concept, objectives, importance) -Maintenance classifications		

			-Introduction to the failure -Planning and scheduling maintenance work -Maintenance and modern management concepts (maintenance and quality, maintenance and the six sigma, maintenance and the lean manufacturing system) -Trade-offs between maintenance policies -Using computers to manage maintenance work - TOTAL PRODUCTIVE MAINTENANCE -Smart maintenance -Reliability -Mathematical applications on reliability - replacement studies Mathematical - applications on replacement - test -Discuss reports		
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11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Crespo Marquez, Adolfo(2007) The maintenance management framework : models and methods for complex systems maintenance. Roger Ferré Martínez(2019) MAINTENANCE MANAGEMENT
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name: Environmental Management

2. Course Code: AEIM24-

3. Semester / Year: Second/Master in Industrial Management

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (2 hours per week)

7. Course administrator's name (mention all, if more than one name)

Name: Assistant Professor Dr. Ahmed Hani Mohammed

Email: ahmed_hani@uomosul.edu.iq

8. Course Objectives

Course Objectives



Introducing the student to environmental management systems by identifying the nature of environmental management and adopting it into the organizational structure of any industrial or service organization, as it is one of the sciences that combines science, policies, and social and economic applications. It mainly focuses on finding a solution to the practical problems people face in coexistence with nature, resource exploitation and waste production.

9. Teaching and Learning Strategies

Strategy	1. Lecture and seminar method. 2. Discussion method.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			<p>An introductory introduction to environmental management</p> <p>What is environmental management: historical development, concept, relationship between management and the environment, the importance and objectives of environmental management, adopting environmental management in the organizational structure</p> <p>Principles of environmental management, motivations for adopting environmental management, advantages and obstacles</p> <p>Environmental management techniques and tools: environmental policy, environmental management systems, environmental auditing, Environmental indicators: What are the indicators and what is the purpose of their use, the three indicators: operational,</p>		

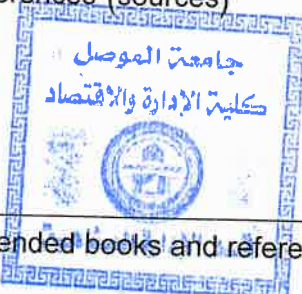


			administrative and environmental fields, life cycle assessment (LCA) ISO 14000 series of international standards for environmental quality Environmental risk management systems Environmental risk assessment Industrial environment management Green universities Sustainability and recycling Total Environmental Quality Management (TQEM) 1 Total environmental quality management (TQEM) 2 Discuss reports Tests		
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11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources) 	National Environment Commission Secretariat Royal Government of Bhutan. (2011). Environmental management tools & techniques – National Capacity Self Assessment Project - Mary K. Theodore, Louis Theodore, 2021, Introduction to Environmental Issues, 2nd Edition - Woellner, R. A., Voorhees, J., & Bell, C. L. (2020).
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	www.iso.org

Course Description Guide Doctorate



Course Description Form

1. Course Name: Advanced manufacturing systems	
2. Course Code: AEIM24-702	
3. Semester / Year: first/ PH.D	
4. Description Preparation Date: 2024	
5. Available Attendance Forms: Mandatory attendance for 15 weeks	
6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)	
7. Course administrator's name (mention all, if more than one name) Name: Professor Dr. zahraa ghazi thanoon Email: zahraa_ghazi@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> Providing the student with the cognitive foundations of advanced manufacturing systems
9. Teaching and Learning Strategies	
Strategy	1. Lecture and seminar method.

2. Discussion method.					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			<ul style="list-style-type: none"> - agile manufacturing - agile manufacturing - environmentally friendly manufacturing - Holonic manufacturing - Holonic manufacturing - participatory manufacturing - computer-aided process planning - concurrent engineering - concurrent engineering - enterprise resource planning system - Next generation manufacturing system - biomanufacturing system - intelligence manufacturing system - cloud manufacturing system - global manufacturing system 		
11. 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					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)				Many sources	



Recommended books and references (scientific journals, reports...)	Many sources
Electronic References, Websites	

Course Description Form

1. Course Name: Management of the environment and industrial pollution	
2. Course Code: AEIM24-703	
3. Semester / Year: first / 2024	
4. Description Preparation Date: 2024	
5. Available Attendance Forms: Mandatory attendance for 15 weeks	
6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)	
7. Course administrator's name (mention all, if more than one name) Name: Assistant Professor Dr. Omar Ali Ismail Email: Omer_ali@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Introducing the student to the concept and philosophy of environmental management, its pillars, and dimensions. • Introducing the student to the essential role that environmental management plays in industrial organizations. • Familiarity with the concepts of environmental sustainability.
9. Teaching and Learning Strategies	
Strategy	1. Lecture and seminar method. 2. Discussion method.



10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		An introductory introduction to environmental management.		
2	3		What is environmental management: historical development, concept, relationship between management and the environment, the importance, and objectives of environmental management, adopting environmental management in the organizational structure, principles of environmental management, motives for adopting environmental management, advantages and obstacles.		
3	3		The genesis of the worldwide environmental problem: international environmental regulations.		
4	3		Environmental law.		
5	3		A series of international standards for environmental quality, ISO 14000, and the Environmental Management Project.		
6	3		Environmental indicators: What are the indicators and what is the purpose of their use, the three indicators: operational, administrative, and environmental fields, life cycle assessment (LCA).		
7	3		Environmental risk management systems.		
8	3		Environmental risk assessment. Industrial environment management.		
9	3		Sustainable design and environmentally oriented design and manufacturing.		



10	3		Sustainability, industrial ecology and zero discharge.		
11	3		Lean Manufacturing, Zero Defect and Zero Impact: Environmentally Conscious Manufacturing.		
12	3		Sources of industrial pollution, its characterization, estimation, and treatment.		
13	3		Discuss reports.		
14	3		The exam.		

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Das, Tapas K. , (2020) Industrial environmental management: Engineering, science, and policy. John Wiley & Sons.
Main references (sources)	Mary K. Theodore, Louis Theodore, 2021, Introduction to Environmental Issues, 2nd Edition
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name: PhD	
Industrial knowledge management	
2. Course Code:	
AEIM24-709	
3. Semester / Year:	
2024 (second course)	
4. Description Preparation Date:	
15/11/2024	
5. Available Attendance Forms:	
Attendance only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours in the course. 3 hours weekly	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof . Dr . Ali Abdul Sattar Al-Hafidh Email: ali_abdulsatar@uomosul.edu.iq	
8. Course Objectives	
<ul style="list-style-type: none"> a. Understand basic concepts. B. Understanding theories. c. The ability to analyze. d. Use reference sources. e. Application of knowledge. f. critical thinking . g. Sustainable learning. h. Learn about technology 	<p>Providing the student with knowledge of how to use modern technologies applications</p> <p>Knowledge management to enable him to understand and understand how to deal with what he possesses The human resource of knowledge and its exploitation in a way that achieves a competitive advantage</p> <p>For the organization</p>
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> a. Case studies and practical projects. B. Group discussions. c. Use of multimedia. d. Active learning techniques. e. Use of information and communications technology. f. Stimulate critical thinking. g. Encouraging cooperative learning. h. Provide constructive feedback.



These strategies can help enhance the students' learning experience and achieve the learning objectives set the Principles of Management course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3 hours	a. Teaching and learning methods C. thinking skills Developing knowledge management skills Dealing with intellectual capital What exists in the organization and how Developing employee skills in form Which leads to achieving an advantage Competitiveness by developing this the supplier D. General and transferable skills Other related skills Employability and development potential (personal)	Industrial knowledge management	Study lectures / Video explanation / For study cases/ Case studies of organizations	Exams (daily, monthly, quarterly, surprise). Reports Daily posts . Khadour
2	3 hours				
3	3 hours				
4	3 hours				
5	3 hours				
6	3 hours				
7	3 hours				
8	3 hours				
9	3 hours				
10	3 hours				
11	3 hours				
12	3 hours				
13	3 hours				
14	3 hours				
15	3 hours				

11. Course Evaluation

Formative assessment Daily tests 2 5 (5%)
 Reports 1 5 (% 5)
 Posts 1 5 (% 5)
 Practical test 2 5 (10%)
 Final evaluation Semester exam 2 hours 20 (10%)
 Final exam: three hours 60 (50%)
 Final score 100 (100%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)	
Recommended books and references (scientific journals, reports...) Modern books in the field of specialized knowledge management in the industrial sector	
Electronic References, Websites Freely extracted from the NHS / ABC of Knowledge Management -National Library for Health at http://www.library.nhs.uk/knowledgemanagement/ by Géraud Servin - The Complete Guide to Knowledge Management <i>A Strategic Plan to Leverage Your</i> <i>Company's Intellectual Capital</i> EDNA PASHER AND TUVYA RONE	



Course Description Form

1. Course Name: PhD	
Crisis and emergency management	
2. Course Code:	
AEIM24-705	
3. Semester / Year:	
2024 (first course)	
4. Description Preparation Date:	
15/11/2024	
5. Available Attendance Forms:	
Attendance only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours in the course. 3 hours weekly	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof . Dr . Ali Abdul Sattar Al-Hafidh Email: ali_abdulsatar@uomosul.edu.iq	
8. Course Objectives	
<ul style="list-style-type: none"> a. Understand basic concepts. B. Understanding theories. c. The ability to analyze. d. Use reference sources. e. Application of knowledge. f. critical thinking . g. Sustainable learning. h. Learn about technology 	<p>Providing the student with knowledge of how to manage crises and the risks resulting from them and accompanying them, so that he can realize and understand how to deal with the crisis and the risks resulting from it, and how to benefit from capabilities and resources for the purpose of overcoming and resolving crises, mitigating their effects and risks.</p>
9. Teaching and Learning Strategies	
<p>Strategy</p>	<ul style="list-style-type: none"> a. Case studies and practical projects. B. Group discussions. c. Use of multimedia. d. Active learning techniques. e. Use of information and communications technology f. Stimulate critical thinking. g. Encouraging cooperative learning.



	<p>h. Provide constructive feedback.</p> <p>These strategies can help enhance the student learning experience and achieve the learning objectives set for the Principles of Management course.</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3 hours	Teaching and learning methods	Crisis	Study lectures /	Exams (daily,
2	3 hours	thinking skills Developing	and	Video explanation	monthly,
3	3 hours	skills of dealing with crises	emergency	For study cases/	quarterly,
4	3 hours	the risks resulting from the	management	Case studies of	surprise).
5	3 hours	which the organization may		organizations	.Reports
6	3 hours	exposed to, and how to develop			Daily posts
7	3 hours	the skills of managers in a			. Khadour
8	3 hours	that leads to achieving			
9	3 hours	overcoming the effects of the			
10	3 hours	crises by dealing in a correct			
11	3 hours	scientific manner with the			
12	3 hours	crises with the aim of reducing			
13	3 hours	their negative impact.			
14	3 hours	General and transferable skills			
15	3 hours	(other skills related to			
		manageability in exceptional			
		circumstances and complex			
		situations)			

11. Course Evaluation

Formative assessment Daily tests 25 (5%)
 Reports 15 (% 5)
 Posts 15 (% 5)
 Practical test 25 (10%)
 Final evaluation Semester exam 2 hours 20 (10%)
 Final exam: three hours 60 (50%)
 Final score 100 (100%)

12. Learning and Teaching Resources


Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...) Modern books in the field of	



specialized knowledge management in the industrial sector	
<p>Electronic References, Websites Freely extracted from the NHS /</p> <p>-Farazmand ali (2014) , Crisis and emergency Management Edited by Ali Farazmand Theory and Practice Second Edition , CRC Press Taylor & Francis Group</p> <p>- clipin , dawm , r , murphy , Priscilla, j (2008) " crisis management in a complex world , oxford university press</p> <p>-encyclopedia of crisis management , (2013) , Penuel , K. Bradley statler Matt Hagen, ryan , SAGE Publications, Inc.</p> <p>- Fagel , Michael J, CEM , PhD , (2014) " Crisis management and Emergency Planning Preparing for Today's Challenges , crc press</p>	



Course Description Form

1. Course Name: Industrial logistics management					
2. Course Code:					
AEIM24-706					
3. Semester / Year: Second/first					
4. Description Preparation Date: 2024					
5. Available Attendance Forms: Mandatory attendance for 15 weeks					
6. Number of Credit Hours (Total) / Number of Units (Total): (3 hours per week)					
7. Course administrator's name (mention all, if more than one name)					
Name: Assistant Professor Dr. Bassam muneeb Ali mohammed					
Email: Basam_moneeb@uomosul.edu.iq					
8. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> The student's definition of industrial logistics and its areas of use. Introducing the student to supply chains and their types. 		
9. Teaching and Learning Strategies					
Strategy		1. Lecture and seminar method. 2. Discussion method.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			- Introduction to logistics - Integrated logistics -Logistics and customer service -Logistics information system		

			-Supply chain management -Supply chain activities - exam -Lean supply chain - agile supply chain -Hybrid supply chain -Electronic supply chain -Logistics and manufacturing -Logistics and environment -International logistics -Outsourcing -exam		
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11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Harrison, Alan, (2008) Logistics management and strategy : competing through the supply chain Rushton, Alan.(2014) The handbook of logistics and distribution management : understanding the supply chain..
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name: Research Methodology					
2. Course Code					
AEIM24-7012					
3. Semester / Year: Second/PhD in Industrial Management					
4. Description Preparation Date: 2024					
5. Available Attendance Forms: Mandatory attendance for 15 weeks					
6. Number of Credit Hours (Total) / Number of Units (Total): (2 hours per week)					
7. Course administrator's name (mention all, if more than one name)					
Name: Assistant Professor Dr. Ahmed Hani Mohammed					
Email: ahmed_hani@uomosul.edu.iq					
8. Course Objectives					
Course Objectives			Introducing the student to scientific research methods by learning about the basics of scientific research and the mechanisms for constructing research correctly, avoiding common mistakes in writing scientific research, and reviewing world-leading research.		
9. Teaching and Learning Strategies					
Strategy		1. Lecture and seminar method. 2. Discussion method.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			An introductory introduction to scientific research		

			<p>Basic concepts about research methodology</p> <p>Basic steps for choosing a research topic</p> <p>Mechanisms for writing a research problem</p> <p>Formulating the importance and objectives of scientific research</p> <p>Scientific research model and hypotheses (steps) with applied examples</p> <p>The scientific method in formulating previous studies</p> <p>How to formulate a theoretical framework in a master's thesis</p> <ul style="list-style-type: none"> - Contents of the theoretical aspect - Mechanism for installing scientific sources - Install figures and tables <p>Defining the community and selecting the sample and individuals studied</p> <p>Data collection methods</p> <p>Documents - notes - interviews - checklist and questionnaire</p>		
			<p>Processing data and drawing conclusions</p> <p>The scientific method in writing conclusions, proposals and sources</p> <p>Study summary</p> <p>Discuss reports</p> <p>Tests</p>		

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> - Sekaran, U., & Bougie, R. (2016). Research methods for business: A skill building approach. John Wiley & Sons. - Hair, J. F., Money, A. H., Samouel, P., & Page, M. (2007). Research methods for business. Education+ Training. - Ghauri, P., Grønhaug, K., & Strange, R. (2020). Research methods in business studies. Cambridge University Press.
Electronic References, Websites	

