Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: .....mousl university .....

Faculty/Institute: ..... Administration and Economics.....

Scientific Department: ....Industrial management.....

Academic or Professional Program Name: :bachelor in .industrial management.....

Final Certificate Name: ..... bachelor in .industrial management .....

Academic System: ... courses .....

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name: Raad adnan Raouf

Date: 3/4/2024

Signature:

Scientific Associate Name: Prof.Dr.Alaa Abdulsalam Alhamadany

Date: 23/4/2024

كلية الإدارة والاقتصاد
شعبة ضمان الجودة وتقويم الاداء

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 24/4/2024

Signature:

Approval of the Dean

1. **Program Vision**
Excellence in teaching scientific subjects in industrial management, encouraging scientific research and international publishing of contemporary topics, while innovating mechanisms to serve society in general and the industrial sector in particular.

2. **Program Mission**
The Bachelor of Industrial Management program supports the continuity of the university and college by focusing on the educational process, scientific research, and community service.

3. **Program Objectives**
1. Contributing to the graduate's cognitive development in industrial management sciences in line with the goals of the industrial and service sectors and in harmony with the modernization of the specialty. 2. Improving the quality of the education process for the industrial management specialization in line with preparing graduates who contribute effectively to the industrial sector in light of attention to the educational and social dimensions. 3. Improving the efficiency of the department's staff and upgrading them to gain access to the global research community in order to achieve the integrity of the educational process. 4. Activating the department's role in community service by organizing seminars, workshops, and discussion panels, and contributing to continuing education courses, consulting contracts, and social activities with a humanitarian dimension.

5. Adopting the philosophy of continuous improvement of the quality of the educational process in the department.

4. Program Accreditation

National standards for accrediting programs of colleges of administration and economics in Iraq.

5. Other external influences

Ministry of Industry and Minerals + Nineveh Chamber of Industry.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	8	16	10.9	
College Requirements	12	29	19.8	
Department Requirements	35	99	67.8	
Summer Training	1	2	1.3	
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical

8. Expected learning outcomes of the program

Knowledge

1- Knowledge of industrial management functions and activities. 2- Knowledge of the functions of production and quality department managers. 3- Knowledge of the jobs of industrial maintenance and safety department managers	
Skills	
- Thinking skills to find solutions to a proposed realistic problem and interact with it as a factory or production line manager 2- Skills to analyze and diagnose the challenges of industrial management described in the literature and work to mitigate their severity. 3- Skills of accurate diagnosis of the prospects for developing Iraqi industry. 4- Encouraging skills to deal with artificial intelligence in the field of industrial management.	
Ethics	
1- Integrity in making decisions related to production and quality plans. 2- Transparency in evaluating the performance of working individuals. 3- Instilling the foundations of social justice. 4- Encouraging the values of scientific integrity	

9. Teaching and Learning Strategies

1- Enabling the student to find solutions to industrial management problems using the analytical method.

2- Providing knowledge and skills to the student regarding industrial management programs in industrial and service companies.

3 Reaching a deep understanding of the vocabulary of industrial management programs.

4- Discussing aspects of industrial management in a scientific, civilized manner based on diagnosing and treating the problem.

10. Evaluation methods

Weekly, monthly and daily exams and the end of the course exam.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof. Dr. Raad Adnan Raouf	business administrative	Marketing Management			*	
Prof. Dr. Maysar Ibrahim Ahmed	business administrative				*	
Prof. Dr. Adel Zakir Nematullah	business administrative	Production and operations management			*	
Prof. Dr. Ali Abdel Sattar Abdel Hafez	business administrative	Production and operations management			*	
Assistant Prof. Dr. Omar Ali Ismail	Industrial management	knowledge management			*	
Assistant Prof. Dr Bassam Munib Ali Muhammad	Industrial management	Quality Management			*	

Assistant Prof. Dr Ahmed Hani Mohamed	Industrial management	Quality Management			*	
Assistant Prof. . Riad Jamil Wahab	Industrial management	Quality Management			*	
Assistant Prof. Dr Zahraa Ghazi Thanoun	Industrial management	Production and operations management			*	
Assistant Prof. Dr. Ragheed Ibrahim Ismail	Industrial management	Production and operations management			*	
Assistant Prof. Dr Ahmed Talal Ahmed Mohammed	Industrial management	Production and operations management			*	
Assistant Prof. Bashar Ezz El-Din Saeed	Industrial management	Production and operations management			*	
Assistant Prof. Mohamed Muneeb Mahmoud	Industrial management	Production and operations management			*	
Lecturer Dr Abdul Aziz Bashar Hasib	Industrial management	Production and operations management			*	
Lecturer Dr Ali Walid Hazem Muhammad	Industrial management	Production and operations management			*	
Lecturer Dr Islam Yusuf Sheet	Industrial management	Production and operations management			*	
Lecturer Dr Amal Sarhan Sufeiman	Industrial management	Production and operations management			*	
Lecturer Ghanem Mahmoud Ahmed	Industrial management	Production and operations management			*	
Lecturer Suzan Mahmoud Muhammad	Industrial management	Production and operations			*	

		management				
Lecturer . Iman Ali Ahmed	Industrial management	Production and operations management			*	
Assistant Lecturer Alaa Abdel Wahab Abdel Salam	Industrial management	Production and operations management			*	
Assistant Lecturer Zaid Khalil Ibrahim	Industrial management	Production and operations management			*	
Assistant Lecturer . Nour Sabah Issa	Industrial management	Quality Management			*	
Assistant Lecturer . Rayan Muhammad Dhiyab	Industrial management	Production and operations management			*	
Assistant Lecturer Omar Saeed Abdullah	Industrial management	Quality Management			*	
Assistant Lecturer Thanyia Ismail	Industrial management	Production and operations management			*	
Assistant Lecturer Sarah Kanaan Hamza	Industrial management	Production and operations management				*
Assistant Lecturer . Shahad Adel Saadoun	Industrial management	Production and operations management				*
Assistant Lecturer . Bilal Tawfiq Younis	Industrial management	Production and operations management			*	

Professional Development
Mentoring new faculty members
1- Introducing them to teaching methods courses.
2- They pass the teaching validity test.

3- Place them as an assistant with a professor of podiatry.
Professional development of faculty members
1- Requesting one grant per year. 2- They passed a regulation average of 80 or more. 3- Submitting annual proposals to develop the subject's vocabulary. 4- Participation in workshops and seminars in the department/college/university.

12. **Acceptance Criterion**
(Developing regulations related to admission to the college or institute, whether central admission or others mentioned) **Central admission + evening study**

13. **The most important sources of information about the program**
Department website

14. Program Development Plan
1- Training from our department participates in a ministerial committee to develop the department's curricula and from everyone 2-Dr.. Maysar and Dr. Fair pursuant to Ministerial Order No. 3/2199 dated 3/19/2023.

Program Skills Outline

Year/Level	Course Code	Course Name	Basic or optional	Required program Learning outcomes											
				Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First stage The first course		Principles of Economics	2								*				
		Accounting principles/1	2									*			
		human rights	2											*	
		Management principles/1	3(Basic)	*											
		Principles of statistics/1	3(Basic)		*										
		readings in English (E)	2	*											
		the computer	1							*					
First stage The second course		Accounting principles/2	2									*			

		Engineering Drawing	3(Basic)								*					
		mathematics	2						*							
		Principles of statistics/2	3(Basic)		*											
		Management principles/2	3(Basic)	*												
		democracy	2											*		
		Arabic Language	2					*								
The second stage The first course		Specialized readings in English (E)	2	*												

		Quantitative methods/1	3(Basic)					*							
		Laboratories and workshops	2			*									
		Principles of Marketing	2							*					
		Production and operations management/1	4(Basic)		*										
		Computer applications Excel	2								*				
		Design and manufacturing methods/2	2				*								
		Computer design and manufacturing	2								*				
second stage -second course		Production and operations management/2	3(Basic)		*										

		Human Resource Management	4(Basic)									*			
		Quantitative methods/2	3(Basic)					*							
		Intermediate accounting	3(Basic)									*			
		Industrial organization	3(Basic)			*									
Third stage-first course		Computer Applications (QSB)	2												
		Industrial cost accounting/1	3(Basic)												
		Materials management and inventory control/1	3(Basic)												

		Financial Management/ 1	2												
		Operations research/1	3(Basic)												
Third stage- second course		Financial management/2	2						*						
		Industrial marketing	3(Basic)							*					
		Industrial cost accounting/2	3(Basic)					*							
		Maintenance Management	3(Basic)			*									
		Materials management and inventory control/2	2		*										

		Operations research/2	3 (basic)						*						
		Training in industrial sector companies	2	*											
Fourth stage-first course		Production planning and control systems /1	3(Basic)		*										
		Strategic management	3(Basic)								*				
		Quality Management/ 1	3)Basic)		*										
		Project Management/ 1	3(Basic)	*											
		Project evaluation	3(Basic)			*									

		Industrial information systems and modern manufacturing systems	3(Basic)				*							
		Graduation research project/1	1										*	
fourth stage-second course		Quality management/2	3(Basic)		*									
		Production planning and control systems /2	3(Basic)		*									
		Project management/2	3(Basic)	*										
		Human engineering	3(Basic)			*								
		Expert systems and artificial intelligence	3(Basic)				*							

		Planning of industrial facilities	2	*											
		Graduation research project/2	1											*	

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

Course description guide for the first stage

Course Description Form

1. Course Name:
Arabic language (2)
2. Course Code:
3. Semester / Year:
2023_2024 the second course | first study | the first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
The lecture is in person
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours |30 hours
7. Course administrator's name (mention all, if more than one name)
Name: Nadia Fadel Ali Hussein Al-Afandi Email:nadia.fadil@uomosul.edu.iq
8. Course Objectives

Course Objectives	**The Arabic language is the language of communication and understanding between people and it is the language** **The mother develops the student's linguistic outcome.The Arabic language gives the student the skills of expressing in classical Arabic towards their Arabic language related to religion and Arab heritage.**
Enabling students with Arabic language skills and issues at all levels: phonetic, morphological, grammatical, semantic, and written	

9. Teaching and Learning Strategies

Strategy	Teaching and learning strategies depend on the existence of a study plan developed by the teacher and its importance lies in the development of scientific thinking, in addition to its reliance on dialogue and discussi that enriches the linguistic outcome of students.

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Under stand the topic of the unit	Greet and get to know each other	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
2	2	Under stand the topic of the unit	Arabic sentence , sections of sentence ,actual sentence , nominal sentence , With daily assignment of five nominal sentences and five verb sentences.	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
3	2	Under stand the topic of the unit	Review the students in the previous lecture and then explain the types of effects in the Arabic language, how to differentiate between them and how to express them.	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
4	2	Under stand the topic of the unit	Identify the beginner and the news, and indicate how to know the beginner and the news and the sign of their expression, and write applications on the subject on the board and the participation of students in solving it	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
5	2	Under stand the topic of the unit	Statement of the types of beginner and types of news and identify each type and the way to differentiate between them and their expression with the mention of applications for each type, at the end of the lecture a daily exam with an introduction to Surat Al-Kahf	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
6	2	Under stand the topic of the unit	Identify the justifications for submitting the news to the beginner, and the	Theoretical and practical examples	Daily attendance, daily exams,

			justifications for deleting each of them, with a duty for each type		semester exams and assignments
7	2	Under stand the topic of the unit	Recalling the previous lecture and then explaining the missing verbs and why they were called by this name and identifying their meaning	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
8	2	Under stand the topic of the unit	Recognize the already suspicious letters and why they are called by this name and recognize the difference between them and missing verbs	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
9	2	Under stand the topic of the unit	Identify the number in terms of reminders and femininity with the countable and solve applications on that	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
10	2	Under stand the topic of the unit	Identify the difference between the letters Zaa and Dhad and how to differentiate between them in terms of pronunciation and writing.	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
11	2	Under stand the topic of the unit	Identify solutions to differentiate between the letters Dhad and Za through real use and figurative use	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
12	2	Under stand the topic of the unit	Identify the object with it, indicate its location from the sentence, and mark its monument with the oral exam.	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
13	2	Under stand the topic of the unit	Identify the object for him and indicate his location from the sentence, and the sign of his expression with the discussion inside the hall on the subject.	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments
14	2	Under stand the topic of the unit	Identify the absolute effect and indicate its three types, mention the	Theoretical and practical examples	Daily attendance, daily exams,

			sign of its monument, write applications on the board and the participation of students in that.		semester exams and assignments
15	2	Under stand the topic of the unit	Identify the object with him and the wow of the intestine, and the sign of his monument, and mention applications on the subject and discuss students in it	Theoretical and practical examples	Daily attendance, daily exams, semester exams and assignments

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
40% | pursuit
20 | semester exam
10 | attendance
5 | daily exam
5 | homework
60% | final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	NO
Main references (sources)	Explanation of IbnAqeel on the Alfiya Ibn Malik
Recommended books and references (scientific journals, reports…)	Alwajeez in grammar Arabic language composer Dr. Ali Alsaadi The clear in the grammar of Dr. Ali Al-Jazm
Electronic References, Websites	

Course Description Form

1. Course Name: English language

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 lecturer :noor sabah
Email: noor.sabah@uomosul.edu.iq

8. Course Objectives

Course Objectives	**Learn the basics of the English language** **2. Getting to know the basic rules of the language in a way that is understandable to beginners in the language** **3. Addressing dialogues and the meanings of words** **Trying to establish dialogues between the dents themselves.**

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 hello(chapter		

			one) - World(chapter two) - Information abot you (chapter tree) - Family and friends (chapter four) - The way which live (chapter five) - Exam - Date and time (chapter six) - Favorites (chapter seven) - Meaning of home things (chapter eight) - Time past (chapter nine) - Question and negative (chapter ten) - Exam - Can-adverb –adjective(chapter eleven) - I would like-some-many- (chapter twelve) - Colors and clothes (chapter thirteen) (chapter thirteen) - 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)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Accounting principles (2)
2. Course Code:
IM1106ACC1
3. Semester / Year:
2023_2024 the second course | first study | the first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
The lecture is in person
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours |30 hours
7. Course administrator's name (mention all, if more than one name)
Name: Thanya Ismeal Thanoon Email: Thanya.bap252@student.uomosul.edu.iq
8. Course Objectives

a. Understand basic concepts. **B. Understanding theories.** **T. Analytical ability.** **Th. Use reference sources.** **C. Application of knowledge.** **H. critical thinking.** **Kh. Sustainable learning.** **Dr. Learn about technology.**	**Planning for the future, helping in making decisions and determining the financial position of economic units.** **Proficiency in accounting programs, ability to prepare financial statements, and knowledge of business practices.**

9. Teaching and Learning Strategies	
Strategy	**a. Case studies and practical projects.** **B. Group discussions.** **T. Use of multimedia.** **Th. Active learning techniques.** **C. Use of information and communications technology.** **H. Stimulate critical thinking.** **Kh. Encouraging cooperative learning.** **Dr. Provide constructive feedback**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Rationalizing management in the planning, control and	Accounting	Weekly, monthly, daily,	Understand basic concepts. Search and explore

		decision-making process using data extracted from accounting records and books	principles	and written exams, and the end-of-course exam..	Solve practical problems. Interaction and discussion. Continuous evaluation. Practical application. Encouraging self-learning.
2	2				
3	2				
4	2				
5	2				
6	2				
7	2				
8	2				
9	2				
10	2				
11	2				
12	2				
13	2				
14	2				
15	2				

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
40% | pursuit
20 | semester exam
10 | attendance
5 | daily exam
5 | homework
60% | final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Accounting principles
Main references (sources)	Professor Miqdad Al-Jalili's book / Principles of Accounting Professor Dr. Saud Jayed Mashkoor/ Principles of Accounting Accounting principles
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Computer Principles(1)
2. Course Code:
IM1105COM
3. Semester / Year:
2023_2024 the first course | first study | the first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
The lecture is in person
6. Number of Credit Hours (Total) / Number of Units (Total)
2An hour a week 30 . hours in the course
7. Course administrator's name (mention all, if more than one name)
Name: assistant teacher Omar Saeed Abdullaah Email: omar.abduallah@uomosul.edu.iq
8. Course Objectives

Course Objectives Achieving these cognitive and skill goals contributes to empowerment Students from Deep understanding of the field of computers in industrial facility management And prepa for professional challenges in this field .	**Cognitive objectives** **The following cognitive objectives must be achieved:** **- An enumeration of the computer's physical components.** **- An explanation of the components of the processing unit, its types, and its unit of measurement.** **- An explanation of the memory unit in terms of "its types, functions, and unit of measurement."** **- Explaining the factors affecting computer performance.** **- Explain the function of the input units, giving examples.** **- Explain the function of the output units, giving examples.** **- Enumeration of storage media, their types and functions.** **- Identify the system box.** **- Identify the motherboard.**

	- Identify the benefits of expansion cards and their types. **- Identify expansion slots.** **- Identify ports and their types.** **- Identify the power supply device.** **- Deducing the relationship between input and output units and storage and processing units.** **Skill objectives** **skill objectives must be achieved :** **- Acquiring some technical skills such as (blogging skill, blog design skill, email use skill).** **- Acquiring the skill of writing in a scientific manner.** **- Acquire the skill of searching through web pages.**

9. Teaching and Learning Strategies

Strategy	a. Practical application of each paragraph . b. Group discussions. c. Continuous learning techniques . d. Using information and communications technology for purpose of continuous improvement . e. Stimulating thinking. f. Encouraging cooperative learning. g. Provide constructive feedback. These strategies help enhance the students' learning experience a achieve the learning objectives set for the engineering drawing subject

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Teach the student to be familiar with the basic rules for dealing with and managing a computer To help him complete projects And matters Printing, preparing statistics and graphs, creating presentations and engineering chart designs And so on, and with the emergence of the Internet as a means of communication available to everyone, it has become very necessary for students to learn how to use it Computer due to the role of the Internet in many fields, including education, scientific research, trade and marketing Through electronic correspondence, web pages, and electronic speech.	Computer basics And its office applications	**Theoretical explanation and practical application.**	Weekly, monthly, daily, written exams, and the end-of-course 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
40% | pursuit
20 | semester exam
10 | attendance
5 | daily exam
5 | homework
60% | final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Computer basics and office applicatior
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Engineering drawing subject
2. Course Code:
IM1208ED
3. Semester / Year:
2023_2024 the second course | first study | the first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
The lecture is in person
6. Number of Credit Hours (Total) / Number of Units (Total)
3An hour a week 45 . hours in the course
7. Course administrator's name (mention all, if more than one name)
Name: assistant teacher Omar Saeed Abdullaah Email: omar.abduallah@uomosul.edu.iq

8. Course Objectives	
Course Objectives Achieving these cognitive and skill goals contributes to empowerment Students from A deep understanding of the field of engineering drawing in the management of industrial facilities And prepare for professional challenges in this . field .	**Cognitive objectives** **Developing the student's mental ability to - .imagine geometric shapes** **Enabling the student to represent engineering - .designs and transfer them to reality** **Skill objectives** **Controlling the practical aspects of the - engineering drawing subject through laboratory classes**

9. Teaching and Learning Strategies	
Strategy	a. Practical application of each paragraph . b. Group discussions. c. Continuous learning techniques . d. Using information and communications technology for the purpose of continuous improvement . e. Stimulating thinking. f. Encouraging cooperative learning.

	g. Provide constructive feedback. These strategies help enhance the students' learni experience and achieve the learning objectives set for t engineering drawing subject.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Knowledge - Knowledge of the tools used in engineering drawing and how to use them correctly - The student's ability to understand and apply the basics of engineering drawing. - Reading geometric shapes, disassembling them, and assembling them through drawing, projection, and sections methods. - Developing the student's skill in using tools in drawing diagrams and geometric shapes Skills - Perception and idea simulation skills - Expanding the student's geometric imagination by deducing projections and sections for each geometric figure and understanding its dimensions. - Academic communication and communication skills (with sources and people). - Access the largest possible number of references and	material Engineering drawing	**Theoretical explanation and practical .application**	Weekly, monthly, daily, written exams, and the end-of-course exam .

		research related to the subject. - Communicating with the most important ideas presented by the subject through the Internet Competencies - Going to implement an engineering design with all its requirements recognized in the field of work - Design engineering plans that complete the details and dimensions and can be implemented on the ground.			

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
40% | pursuit
20 | semester exam
10 | attendance
5 | daily exam
5 | homework
60% | final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Engineering drawing
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

Course Name: Expert systems and artificial intelligence

1. Economics

2. Course Code:

3. Semester / Year: First

4. Description Preparation Date: 1/10/2023

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 teacher Abdulrahman Mohammed Ahmed

Email: abdulrahmanakrawi@uomosul.edu.iq

8. Course Objectives

Course Objectives	Learn about the concept of expert systems and its types. 2- Identify the uses of expert systems in administrative work. 3-Learn about the concept of artificial intelligence, its types, and ways to use it in administrative work. 4- Training the student on how to benefit from expert systems and artificial intelligence in a positive way to achieve goals.

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
1st week 2nd week 3rd week 4th week 5th week 6th week 7th week 8th week 9th week 10th week 11th week 12th week 13th week 14th week 15th week	2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours		Introduction. Demand Theory Supply Theory Product Theory Cost Theory Revenue Theory		Weekly and monthly exams. Homework and reports. Questions and discussions.

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)	Economics science/ M. Al-Hasnawi
Recommended books and references (scientific journals, reports...)	Economics science/ M. S. Al- Quraishi Articles and reports
Electronic References, Websites	

Course Description Form

Course Name: Human Rights and Democracy

1.

2. Course Code: first course

3. Semester / Year: 2023−2024

4. Description Preparation Date: 15−11−2023

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 teacher sawsan khalid
Email: sawsan.khalid@uomosul.edu.iq

8. Course Objectives

Course Objectives Ensuring the consolidation and respect of the principles of human rights and democracy. The necessity of loving the homeland and the people of the country and planting the seeds of peaceful coexistence and living in dignity for all components by spreading the culture of accepting others and respecting their religious, political, cultural and social privacy. The necessity of cooperation with state institutions in order to establish security and peace in the country.	These goals have cognitive and skills outcomes through: - Knowing the necessary principles of human rights, knowing the principles of democracy and working to make it successful, and knowing the requirements for security and political stability in the country. − Students coexist with each other as individuals in an integrated society. - He urged the students to love their country and have absolute loyalty to it, and to participate widely in political elections and have an active national presence in them.

9. Teaching and Learning Strategies

Strategy	1− Through weekly lectures and presenting the scientific material in a theoretical manner.

	2- Relying on realistic examples of human rights and democracy, which reflect the nature of society and the environment that embraces the individual. 3- Teaching students to think scientifically, analyze and deduce. 4- Brainstorming gave students an opportunity to present and discuss their ideas. 5- Intellectual questions and discussions These strategies can help enhance students' learning experience and achieve the specific learning objectives for the Human Rights and Democracy course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A general introduction to the concept of human rights and its roots	Human Rights and Democracy	Understand basic concepts Search and explore Interaction and discussion	Weekly, monthly, daily, and written exams, and the end-of-course exam.
2	2	Human rights and their development in human history			
3	2	The development of the idea of protecting human rights in the modern era			
4	2	United Nations mechanisms for protecting human rights			
5	2	Non-international organizations and bodies concerned with defending human rights			
6	2	Human duties and restrictions on the exercise of human rights			
7	2	The concept and history of democracy			
8	2	Characteristics of the democratic system and its components			
9	2	Constitution and democracy			
10	2	The election			
11	2	Civil society institutions and democracy			
12	2	The relationship between human			

		rights and democracy			
13	2	Genocide crimes			
14	2	Guarantees of public freedoms and rights – good governance – contemporary democracy			
15	2	Enriching the (human rights) curriculum with the book The Islamic School and the Problem of Contemporary Man, by Mr. Muhammad Baqir al-Sadr			

11. Course Evaluation

Formative assessment 40%
Daily tests 1 5% (5)
Reports % ( )
Contributions 5% (5)
Practical test % ( )
Final Evaluation Semester Exam 2 30% (15)
Final exam: 2 hours 60% (60)
Final score 100% (100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	(Human Rights and Democracy), by Ghassan Karim Majzab - Amjad Zein Al-Abidin Tohme Some books (human rights) by the author Hamid Hanoun Khaled (Human Rights, Democracy, and Public Freedoms) by Maher Sabry Kazem (The book The Islamic School and the Problem of Contemporary Man), by Mr. Muhammad Baqir al-Sadr
Recommended books and references (scientific journals, reports…)	Amer Ayyash Abdul Wadib Muhammad Jassim, (The role of civil society institutions in the field of human rights), Tikrit University Journal of Legal and Political Sciences, Issue 6, Year 2, 2011. Sherzad Ahmed, The Historical Development of Human Rights, Journal of the College of Basic Education, Al-Mustansiriya University, Baghdad, Issue 76, 2012.
Electronic References, Websites	Permanent Constitution of Iraq 2005

Course Description Form

1. Course Name:
Principles of administration 2
2. Course Code:
3. Semester / Year:
Chapter second course
4. Description Preparation Date:
4 202/25/2
5. Available Attendance Forms:
My presence only
6. Number of Credit Hours (Total) / Number of Units (Total)
45hours in the course 3 .hours per week
7. Course administrator's name (mention all, if more than one name)
Zaid Khaleel Ibrahim Zaid.khaleel@uomosul.edu.iq Shahad Adel Saadoun shahad.adil@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.**	Achieving these cognitive goals contributes to enabling students to… Deep understanding of the field of management principles for industrial facilities And prepare for professional challenges in this fie

9. Teaching and Learning Strategies	
The 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

the week	hours	Required learning	Name of the unit or topic	Learning method	Evaluation method

		outcomes			
1 2 3 4 5)updat (6 7 8 9 10) updated 11 12 13 14 15	3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours	Understand basic concepts. Apply concepts to real-life contexts. Develop leadership and management skills. Strategic thinking. Understanding modern challenges in management. Continuous learning and skills development. Teamwork and cooperation .	Principles of administration 1. **Job design and organizational structure** 2. **Functional desig patterns** 3. **Validity Authorit** 4. **The chain of command** 5. **Validity scope** 6. **Authorization authorization** 7. **Leadership** 8. **Participatory management** 9. **Connection** 10. **Nature of communication** 11. **Communication obstacles** 12. **The nature and types of supervision** 13. **Effective control system**	**Understand basic concepts. Search and explore Solve practical problems. Interaction And discussion. Continuous evaluation. Practical application. Encouraging self-learning. These steps help make i easier The learning process fo principles of manageme course In an effective and comprehensive manner**	**Weekly , monthly, daily, written exams, and the end-of - course exam.**

11. Course Evaluation

Formative assessment Daily tests25%(5)
Reports(5) %15
Contributions(5) %15
Practical test25%(10)
Final assessment Semester exam 2 hours(10) %20
Final exam: 3 hours 60%(50)
Final score (100) %100

12. Learning and Teaching Resources

Required textbooks (methodology, if any)	Principles of administration
Main references (sources)	Khalil Al-Shamaa
Recommended supporting books and references (scientific journals, reports….)	Some recent books in the field of management about Computer way.
Electronic references ،Internet sites	

Course Description Form

1. Course Name:
Principles of administration 1
2. Course Code
3. Semester/Year
Chapter first course
4. Date this description was prepared:
3 202/11/15
5. Available forms of attendance:
My presence only
6. Number of study hours (total)/number of units (total)
45hours in the course 3 .hours per week
7. Name of the course administrator (if More than one name mentioned(
Zaid Khaleel Ibrahim Zaid.khaleel@uomosul.edu.iq Shahad Adel Saadoun shahad.adil@uomosul.edu.iq
8. Course objectives

I. Understand basic concepts. **J. Understanding theories.** **K. The ability to analyze.** **L. Use reference sources.** **M. Application of knowledge.** **N. critical thinking .** **O. Sustainable learning .** **P. Learn about technology .**	Achieving these cognitive goals contributes enabling students to… Deep understanding of the field of managem principles for industrial facilities And prepare for professional challenges in this fie

9. Teaching and learning strategies	
The strategy	**I. Case studies and practical projects.** **J. Group discussions.** **K. Use of multimedia.** **L. Active learning techniques.** **M. Use of information and communications technology.** **N. Stimulate critical thinking.** **O. Encouraging cooperative learning.** **P. Provide constructive feedback.** **These strategies can help enhance the students' learning experience and achieve the learn objectives set for the Principles of Management course .**

10. Course structure

the	hours	Required learning	Name of	Learning method	Evaluation

week		outcomes	the unit or topic		method
1 2 3 4 5)updat (6 7 8 9 10 updated 11 12 13 14 15	3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours	Understand basic concepts. Apply concepts to real-life contexts. Develop leadership and management skills. Strategic thinking. Understanding modern challenges in management. Continuous learning and skills development. Teamwork and cooperation .	Principles administrat n	Understand basic concepts. Search and explore Solve practical problems. Interaction And discussion. Continuous evaluation. Practical application. Encouraging self-learning. These steps help make it easier The learning process for the princ of management course In an effective and compreher manner	**Weekly , monthl y, daily, written exams, and the end-of - course exam**.

11. Course evaluation

Formative assessment Daily tests25%(5)

Reports 15%(5)

Contributions 15%(5)

Practical test25%(10)

Final assessment Semester exam 2 hours 20%(10)

Final exam: 3 hours 60%(50)

Final score (100) %100

12. Learning and teaching resources

Required textbooks (methodology ,if any(	Principles of administration
Main references (sources)	Khalil Al-Shamaa
Recommended supporting books and references (scientific journals, reports….)	Some recent books in the field management about Computer way.
Electronic references , Internet sites	

Course Description Form

1. Course Name: Principles of statistics
Principles of statistics 2
2. Course Code:
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): (3 hours per week)
7. Course administrator's name (mention all, if more than one name)
Name: assistant teacher RAYAN MOHAMMED Email: rayan.m.thyab@uomosul.edu.iq

8. Course Objectives	
Course Objectives	Achieving these cognitive goals contributes to enabling students to conduct statistical analyzes and learn about the mechanism of classifying and tabulating data in order to reach results that help in decision-making.

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
			The concept of dispersion metrics in management The concept of statistical range and how to find the range standard deviation Average deviation Variation (applied examples in management) Measures of relative dispersion Dispersion coefficient calculated by range The coefficient of variation and its relationship to the concept of risk Standard score Case studies for the standard degree in the field of management The concept of chance and probability Methods of calculating probability Counting methods (combinations and permutations)		

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: Principles of statistics
Principles of statistics 1
2. Course Code:
3. Semester / Year: 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 teacher RAYAN MOHAMMED Email: rayan.m.thyab@uomosul.edu.iq
8. Course Objectives

Course Objectives	Achieving these cognitive goals contributes to enabling students to conduct statistical analyzes and learn about the mechanism of classifying and tabulating data in order to reach results that help in decision-making.
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 statistics in management The importance of statistics in management Types of statistics Stages of scientific research Inferential and descriptive statistics Data and variables Statistical operations on totals and observations Checklist, classification and tabulation of administrative data Comprehensive inventory method Sampling method in management Questionnaire form in administrative fields		

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:
Reading in industrial management
2. Course Code
3. Semester/Year: First Semester
Second semester /2024
4. Date of Preparing this Description: November 15, 2023
2023 /11/15
5. Available Attendance Modes
On-campus only
6. Total Study Hours/Total Units:
30 hours for the course. 2 hours per week
7. Name(s) of Course Instructor(s) (if more than one, mention all
Assistant Professor.Dr.Raghed Ibrahim Esmaeel ragheed.ibrahim@uomosul.edu.iq

1. Course objectives

−Enhance Reading Comprehension: Develop the ability to rea and understand d complex texts, articles, and academic paper related to operations management and production in English. −Vocabulary Expansion: Build a specialized vocabulary relate to operations management and production, including key terms concepts, and industry−specific terminology. −Critical Analysis: Learn to critically analyze and evaluat written materials in the field, including identifying main ideas arguments, evidence, and the credibility of sources. −Research Skills: Develop research skills to locate, access, an extract relevant information from a variety of written sources such as journals, reports, and case studies. −Summarization: Gain proficiency in summarizing an synthesizing information from multiple sources into coherent concise, and well−structured summaries. −Discussion and Presentation: Improve the ability to discus and present findings from readings, engaging in informe discussions about operations management and productio topics. −Cross−Cultural Communication: Enhance cross−cultura	**A. Underst and basic concepts.** **B. Compre hend theories.** **C. Ability to analyze.** **D. Use reference sources.** **E. Apply**

communication skills by engaging with English-language materials and understanding the global aspects o operations management. -Critical Thinking: Foster critical thinking skills by analyzing different perspectives and viewpoints presented in readings, and by forming evidence-based opinions. -Writing Skills: Develop written communication skills through assignments such as essays, reports, and reflections based on readings in the field. -Industry Insights: Gain insights into current trends, best practices, and emerging issues within the field o operations management and production through readings and discussions. -Problem-Solving: Apply knowledge gained from readings to real-world problem-solving scenarios and case studies within the context of operations management. -Teamwork: Collaborate with peers on group discussions projects, and presentations related to readings in the field	**knowledge.** **F. Critical thinking.** **G. g. Lifelong learning.** **H. h. Identify technologies.**
13. B. Evaluation methods	
• **Reading Quizzes: Regular quizzes on assigned readings to assess comprehension and engagement with the material.** • **Class Participation: Evaluation of students' participation in class discussions, group activities, a debates related to the readings.** • **Reading Summaries: Periodic written summari or reflections on assigned readings to gauge understanding and critical thinking.** • **Oral Presentations: Students may be required t present key points, analyses, or critiques of assigned readings to the class.** • **Research Papers or Essays: Longer written assignments that require students to explore a speci topic related to operations management and production in depth, incorporating insights from th readings.** • **Midterm and Final Examinations: Assessments that test students' knowledge of the material covere throughout the course, including readings.**	
1. **Course structure**	

Week	Hours	Required learning outcomes	Name of the unit/course or subject	Tea me
1	2	• Course objectives and expectations • Overview of		
2	2			
2	3			
2	4			
2	5	• Effective reading strategies		
2	6			
2	7			
2	8	•Introduction to key concepts in operations management •Reading assignments on core principles	**Production Processes**	
2	9	•Reading and analyzing materials on production processes	**Supply Chain**	
2	10			
2		•Introduction to Quality Management •Reading and discussing articles on Quality Management strategies	**Quality Management**	
2		•Introduction to Lean and Six Sigma principles		
2	15	The daily exam for the end of the course		

Formative Assessment:
Daily Quizzes 2 5% (5)
Reports 1 5% (5)

Participations 1 5% (5)
Practical Exam 2 5% (10)
Final Assessment:

Midterm Exam 2 hours 20% (10) Final Exam 2 hours 60% (50) Final Grade 100% (100)	
-Learning and Teaching Resources	
Required Textbo (Methodology available)	
Main Referer (Sources)	• Kachru, U. (2009). Production & operations management. Excel Boo India. • 2.Heizer, J. H., & Render, B. (2004). Principles of operat management. Pearson Educación.
Recommended Supporting Books References (Scien Journals, Reports, e	
Electronic Resources, Websites	

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Course description guide for the second stage

2024

Course Description Form

1. Course Name:
Intermediate Accounting (2)
2. Course Code:
IM2223IACC
3. Semester / Year:
2023_2024 the second course | first study | the first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
The lecture is in person
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours |30 hours
7. Course administrator's name (mention all, if more than one name)
Name: Thanya Ismeal Thanoon Email: Thanya.bap252@student.uomosul.edu.iq

8. Course Objectives	
a. Understand basic concepts. **B. Understanding theories.** **T. Analytical ability.** **Th. Use reference sources.** **C. Application of knowledge.** **H. critical thinking.** **Kh. Sustainable learning.** **Dr. Learn about technology.**	**Through it, the student learns to apply the standards set by the Financial Accounting Standards Board.** **Giving guidance lectures and making students aware of the lectures given by the department.**

9. Teaching and Learning Strategies	
Strategy	**a. Case studies and practical projects.** **B. Group discussions.** **T. Use of multimedia.** **Th. Active learning techniques.** **C. Use of information and communications technology.** **H. Stimulate critical thinking.** **Kh. Encouraging cooperative learning.** **Dr. Provide constructive feedback**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Through it, the student learns to apply the	Intermediate	Weekly, monthly,	Understand basic

		standards set by the Financial Accounting .Standards Board Giving guidance lectures and making students aware of the lectures given by the department	Accounting	daily, and written exams, and the end-of-course exam..	concepts. Search and explore Solve practical problems. Interaction and discussion. Continuous evaluation. Practical application. Encouraging self-learning.
2	2				
3	2				
4	2				
5	2				
6	2				
7	2				
8	2				
9	2				
10	2				
11	2				
12	2				
13	2				
14	2				
15	2				

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
40% | pursuit
20 | semester exam
10 | attendance
5 | daily exam
5 | homework
60% | final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Intermediate Accounting
Main references (sources)	Donald Kieso/Intermediate Accounting
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Quantitative methods/1
2. Course Code:
3. Semester / Year:
Chapter (first course)
4. Description Preparation Date:
1/10/2023
5. Available Attendance Forms:
My presence only
6. Number of Credit Hours (Total) / Number of Units (Total)
45 hours in the course. 3 hours per week
7. Course administrator's name (mention all, if more than one name)
Name: Alaa Abdul Wahhab Abdel Salam Email: alaa.abdulwahhab@uomosul.edu.iq
8. Course Objectives

Cour Obje ves	**Achieving these enormous goals in addition to the students from Therefore, the asset multiple industrial facilities is not excluded And prepare for professional challenges this field.**

9. Teaching and Learning Strategies

Strateg	1. Case studies and practical projects. 2. . Group discussions. 3. Use of multimedia. 4. Active learning techniques. 5. Use of information and communications technology. 6. Stimulate critical thinking. 7. Encouraging cooperative learning 8. Provide constructive feedback. These strategies can help enhance students' learning experience a achieve the learning objectives set for Quantitative Methods/1

10. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject	Learning method	Evaluation method

	s		name		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 updated 15 updated	3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho 3 ho	Understand basic concep Apply concepts to real-li contexts. Develop leadership and management skills. Strategic thinking. Understanding modern challenges in manageme Continuous learning and skills development. Teamwork and cooperation.	Methods Quantity/1	Understand basic concepts. Search and explore Solve practical problem Interaction and discussi Continuous evaluation. Practical application. Encouraging self-learni These steps help make i easier The learning process for quantitative methodsIn an effective a comprehensive manner	Weekly, monthly, da and writ exams, and end-of-cour exam.

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbo (curricular books, any)	Quantitative methods/1
Main referen (sources)	Muhammad Al-Fadl / Introduction to Quantitative Methods Dr.. Mehdi Zuilef / Quantitative methods in management
Recommended books and references (scientific journals, reports…)	A. Rand Omran Mustafa/ Operations research and quantitative meth in administrative decision-making Mr. Dr. Abu Al-Qasim Masoud Al-Sheikh/ Operations Researc
Electronic References, Websites	

Course Description Form

1. Course Name:
Quantitative methods/2
2. Course Code:
3. Semester / Year:
Chapter (first course)
4. Description Preparation Date:
1/10/2023
5. Available Attendance Forms:
My presence only
6. Number of Credit Hours (Total) / Number of Units (Total)
45 hours in the course. 3 hours per week
7. Course administrator's name (mention all, if more than one name)
Name: Alaa Abdul Wahhab Abdel Salam Email: alaa.abdulwahhab@uomosul.edu.iq
8. Course Objectives

Course Objectives	**Achieving these enormous goals in addition to the students from Therefore, asset for multiple industrial facilities is not excluded And prepare for professio challenges in this field.**

9. Teaching and Learning Strategies

Strategy	9. Case studies and practical projects. 10. . Group discussions. 11. Use of multimedia. 12. Active learning techniques. 13. Use of information and communications technology. 14. Stimulate critical thinking. 15. Encouraging cooperative learning 16. Provide constructive feedback. These strategies can help enhance students' learning experience a achieve the learning objectives set for Quantitative Methods/2

10. Course Structure

Week	Hour	Required	Unit or	Learning method	Evaluation

	s	Learning Outcomes	subject name		method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 updated 15 updated	3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours	Understand basic concepts. Apply concepts to re life contexts. Develop leadership management skills. Strategic thinking. Understanding mod challenges in management. Continuous learning and skills developm Teamwork and cooperation.	Methods Quantity/2	Understand basic concepts. Search and explore Solve practical problem Interaction and discussi Continuous evaluation. Practical application. Encouraging self-learni These steps help make i easier The learning process for quantitative methodsIn an effective a comprehensive manner	Weekly, montl daily, and writ exams, and end-of-course exam.

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbo (curricular books, if a	Quantitative methods/2
Main referen (sources)	Muhammad Al-Fadl / Introduction to Quantitative Methods Dr.. Mehdi Zuilef / Quantitative methods in management
Recommended books and references (scientific journals, reports…)	A. Rand Omran Mustafa/ Operations research and quantitative meth in administrative decision-making Mr. Dr. Abu Al-Qasim Masoud Al-Sheikh/ Operations Research
Electronic Referenc Websites	

Course Description Form

1. Course Name	
Principles of Marketing	
2. Course code:	
IM2121PM	
3. Semester/Year	
Chapter (first course)	
4. .Date this description was prepared:	
2023 /11/15	
5. Available attendance forms:	
My presence only	
6. umber of study hours (total)/number of units (total:(	
30hours of course. 2 hours a week	
7. Name of the course administrator (if more than one name is mentioned(	
Name: M. Iman Ali Ahmed	
8. Course objectives	
	a. The student acquires knowledge related to the fields of marketing and buying and selling operations. **B. Developing the student's skills and abilities in the field of marketing, specifically marketing activities.** **T. Adapting to the labor market by emphasizing practical, applied and field cases in the field of specialization and scientific training on the application of knowledge and skills in the field of marketing.** **Th. Use reference sources.**
Teaching and learning strategies .9	
a. Case studies and practical projects. B. Group discussions. T. Use of multimedia. Th. Active learning techniques. C. Use of information and communications technology. H. Stimulate critical thinking. Kh. Encouraging cooperative learning. Dr. Provide constructive feedback. These strategies can help enhance the students' learning experier	

and achieve the learning objectives set for the Principles of Marketi course.

10 .Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Weekly, monthl y, daily, and written exams, and the end-of-course exam.	**Understand basic concep** **Search and explore** **Solve practical problems** **Interaction and discussio** **Continuous evaluation**. **Practical application**. **Encouraging self-learnin** **These steps help make it easier** **The learning process for the principles of management course** **In an effective a comprehensive manner**	**Principles Marketing**	Understand basic concepts. Apply concepts to real-life contexts. Develop marketing skills. Strategic thinking. Understanding modern challenges in marketing. Continuous learning and skills development. Teamwork and cooperation.	2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours	1 2 3 4) 5updat 6 7 8 9)10upda (11 12 13 14 15

11.Course evaluation

Formative assessment Daily tests 2 5% (5(
Reports 1 5% (5(
Posts 1 5% (5(
Practical Test 2 5% (10(
Final assessment, semester exam, 2 hours, 20% (10(
Final exam: three hours 60% (50(
Final score 100% (100(

12.Learning and teaching resources

Principles of Marketing	Required textbooks (methodology, if any(
Dr. Abi Saeed	Main references (sources
Some recent books in the field marketing principles	Recommended supporting books and references (scientific journals, reports(….
	Electronic references, Internet sites

Course Description Form

1-Course name:
Human Resource Management
2-Course code:
IM2226 HRM
3-Semester/Year:
Chapter (second course)
4-Date this description was prepared:
2023 /11/15
5-Available attendance forms:
My presence only
6-Number of study hours (total)/number of units (total:)
45hours in the course. 3 hours per week
7-Name of the course administrator (if more than one name is mentioned)
Name: M. Iman Ali Ahmed
. 8-Course objectives

	a. The student acquires knowledge related to the field of human resources management B. Developing the student's skills and abilities in preparing research and how to manage the affairs of individuals working in organizations. T. How to exercise administrative functions such as planning, organizing, directing and controlling, as well as the specialized functions of human resources management. Th. Use reference sources.

9-Teaching and learning strategies
a. Case studies and practical projects. B. Group discussions. T. Use of multimedia. Th. Active learning techniques. C. Use of information and communications technology. H. Stimulate critical thinking. Kh. Encouraging cooperative learning. Dr. Provide constructive feedback. These strategies can help enhance the students' learning experier

and achieve the learning objectives specified for the Human Resou Management course	

.2 10-Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Weekly, monthly , daily, and written exams, and the end-of-course exam.	**Un**derstand basic concept: Search and explore Solve practical problems. Interaction and discussion Continuous evaluation. Practical application. Encouraging self-learning. These steps help make it easier The learning process for human resources management In an effective and comprehensive manner	Human Resource Manageme	Understand skills development. Teamwork basic concepts. Apply concepts to real-life contexts. Develop leadership and management skills. Strategic thinking. Understanding modern challenges in the field of human resources management. Continuous learning and and cooperation.	3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours 3hours	1 2 3 4)5updated(6 7 8 9)10update 11 12 13 14 15

11-Course evaluation

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

12-Learning and teaching resources

Hu human Resource Management	Required textbooks (methodology, if any(
Dr. Muayyad Saeed Al Salem Dr. Adel Harhousl	Main references sources)(
Some recent books in the field of hum resources management.	Recommended supporting books and references (scientific journals, reports…)
	Electronic references, Internet sites

Course Description Form

1. Course Name	
Principles of Marketing	
2. Course code:	
IM2121PM	
3. Semester/Year	
Chapter (first course)	
4. .Date this description was prepared:	
2023 /11/15	
5. Available attendance forms:	
My presence only	
6. umber of study hours (total)/number of units (total)	
30hours of course. 2 hours a week	
7. Name of the course administrator (if more than one name is mentioned(	
Name: M. Iman Ali Ahmed	
8. Course objectives	
	a. The student acquires knowledge related to the fields of marketing and buying and selling operations. **B. Developing the student's skills and abilities in the field of marketing, specifically marketing activities.** **T. Adapting to the labor market by emphasizing practical, applied and field cases in the field of specialization and scientific training on the application of knowledge and skills in the field of marketing.** **Th. Use reference sources.**
Teaching and learning strategies .9	
a. Case studies and practical projects. B. Group discussions. T. Use of multimedia. Th. Active learning techniques. C. Use of information and communications technology. H. Stimulate critical thinking. Kh. Encouraging cooperative learning. Dr. Provide constructive feedback. These strategies can help enhance the students' learning experier and achieve the learning objectives set for the Principles of Marketi course.	

11 .Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Weekly, monthly, daily, and written exams, and the end-of-course exam.	**Understand basic concepts** **Search and explore** **Solve practical problems**. **Interaction and discussion**. **Continuous evaluation**. **Practical application**. **Encouraging self-learning**. **These steps help make easier** **The learning process for principles of Principles Marketing course** **In an effective comprehensive manner**	**Principles Marketing**	Understand basic concepts. Apply concepts to real-life contexts. Develop marketing skills. Strategic thinking. Understanding modern challenges in marketing. Continuous learning and skills development. Teamwork and cooperation.	2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours 2hours	1 2 3 4) 5updat 6 7 8 9)10upda (11 12 13 14 15

11.Course evaluation

Formative assessment Daily tests 2 5% (5)(
Reports 1 5% (5)(
Posts 1 5% (5)(
Practical Test 2 5% (10)(
Final assessment, semester exam, hours, 20% (10)(
Final exam: two hours 60% (50)(
Final score 100% (100)

13.Learning and teaching resources

Principles of Marketing	Required textbooks (methodology, if any)
Dr. Abi Saeed	Main references sources
Some recent books in the field marketing principles	Recommended supporting books and references (scientific journals, reports…)
	Electronic references, Internet sites

Course Description Form

1. Course Name: operation management

2. Course Code:

3. Semester / Year: first /fourth

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (4 hours per week)

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

Name:lecturer :islam sheet & Assistant lecturer :noor sabah
Email: noor.sabah@uomosul.edu.iq

8. Course Objectives

Course Objectives	**1. Understand basic concepts.** **2. Understanding theories.** **3. Analytical ability.** **4. Use reference sources.** **5. Application of knowledge.** **6. critical thinking.** **7. Sustainable learning.** **8. Dr. Learn about technology**

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
			- Learn about the concept of operations management and its system within the scope of production/service organizations - Access to operational and strategic decisions and the most important operational strategies that translate into the dimensions of competition - Knowledge and awareness of calculating productivity/efficiency/effectiveness - Knowledge and familiarity with the concept of forecasting, its types and objectives - Knowledge and awareness of product/service planning and development		

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…)	
Electronic References, Websites	

Course Description Form

1. Course Name: operation management

2. Course Code:

3. Semester / Year: second /fourth

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (4 hours per week)

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

Name:lecturer :islam sheet & Assistant lecturer :noor sabah
Email: noor.sabah@uomosul.edu.iq

8. Course Objectives

Course Objectives	**9. Understand basic concepts.** **10. Understanding theories.** **11. Analytical ability.** **12. Use reference sources.** **13. Application of knowledge.** **14. critical thinking.** **15. Sustainable learning.** **16. Dr. Learn about technology**

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
			- Science and knowledge of the types of energies		

			- Learn to use quantitative methods to calculate energy - Learn and know the factors influencing the selection of a factory location - Learn and know the types of internal arrangement of the factory - Learn and know the overall production planning		

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…)	
Electronic References, Websites	

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Course description guide for the third stage

2024

Course Description Form

1. Course Name: Industrial marketing

2. Course Code: IM3237Mar

3. Semester / Year: Courses system

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): 45 hours (3 hours weekly)

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

Name: Lecturer: Ghanim Mahmoud Ahmed
Email: ghanim_mahmood@uomosul.edu.iq

8. Course Objectives

Course Objectives	• **Providing the student with knowledge and skills in the field of the business market and marketing for the purposes of production and trading in products of all kinds.**

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 3 4	3 3 3 3		- Industrial marketing: concept and importance - Comparison between industrial marketing and consumer	Theoretical lectures	Examinations, asking oral questions and the ability to discuss

5 6 7 8 9 10 11 12 13 14 15	3 3 3 3 3 3 3 3 3 3 3		marketing, classification (division) of industrial goods - Characteristics of demand for industrial goods, types of demand, industrial customers (concept and types) - Industrial buyer behavior (concept and theories), Factors affecting industrial buyer behavior - Buying habits of industrial users - The Key types of industrial purchasing cases, participants in making the industrial purchasing decision - Industrial purchasing motives - Steps in the purchase process for industrial goods - Industrial market: concept and types - Industrial market segmentation (concept, benefits) - Segmentation foundations, segmentation strategies (target market selection strategies) - Development of new industrial products: concept, importance, types and stages - New industrial products development strategies - The concept and objectives of industrial products pricing - Industrial products pricing strategies - Industrial product life cycle		

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)	Industrial marketing books
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name: Industrial organization

2. Course Code: IM3130IO

3. Semester / Year: Courses system

4. Description Preparation Date: 2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): 45 hours (3 hours weekly)

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

Name: Lecturer: Ghanim Mahmoud Ahmed
Email: ghanim_mahmood@uomosul.edu.iq

8. Course Objectives

Course Objectives	• Introducing the student to the concept and foundations of industrial organization, how to choose locations and buildings for the industrial unit, how to organize the production departments within the industrial unit, and learning about the working conditions within the industrial unit.

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 3 4 5	3 3 3 3 3		- Concept, historical development of the science of industrial organization - The relationship of industrial	Theoretica lectures	Examinations, asking questions and the abilit discuss

6 7 8 9 10 11 12 13 14 15	3 3 3 3 3 3 3 3 3 3		organization science to other sciences, applied aspects of industrial organization science - Basic principles of Industrial organization - Organizational structure : concept and design - Types of Organizational structures - Activities grouping methods - Steps and trends for identifying and choosing the location of the industrial unit - Industrial unit buildings - Types of industrial process - Industry success factors - Types of machines within the industrial unit - Layout of production departments in the industrial unit - physical working conditions within the industrial unit - Social working conditions within the industrial unit - Internal problems of contemporary organizations - External problems of contemporary organizations - Characteristics of contemporary organizations - Requirements of contemporary organizations		

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)	Fundamentals of industrial organization
Recommended books and references (scientific journals, reports…)	-
Electronic References, Websites	

Course Description Form

1. Course Name: Materials management and inventory control/1

2. Course Code: **IADM301**

3. Semester / Year: the first

4. Description Preparation Date:1/9/2023

5. Available Attendance Forms: Daily attendance according to the lecture schedule

6. Number of Credit Hours (Total) / Number of Units (Total) 45 hours (3 hours per week)

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

Name: Dr. Ali Waleed Hazim
Email: ali_waleed@uomosul.edu.iq

8. Course Objectives

Course Objectives	**Introducing the student to the skills and knowledge relate purchasing steps based on price, time, and quality, as wel how to choose suppliers and deal with them, and learn about the latest means of the purchasing process in current era and their importance in preserving environment.**

9. Teaching and Learning Strategies

Strategy	1- laining the scientific material to students in detail. 2- Students' participation in solving mathematical problems. 3- Discussion and dialogue about vocabulary related to t topic.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	3		- Introduction to mater management - The concept and importa of the purchasing function	Theoretical lectu	Exams, ask oral questic and the ability discuss
2	3		Objectives of the purchas function - Types of purchasing in business environment		
3	3		- Stages of development purchasing activity		
4	3		- Steps of the purchas process		
5	3		- Organizing the purchas function - Public tender and priv tender		
6	3		- Purchasing strategies		
7	3		- The concept of economic size of the purch order - Factors affecting determination of economic size of the purch order - Methods for calculating economic size of a purch order		
8	3		- The importance and sta of choosing the appropr purchasing source		
9	3		- Evaluating the performa of suppliers after dealing w them - Receiving and examin purchases		
10	3		Buy with the right quality		
11	3		- Buy at the right price		
12	3		- Purchase at the right time		
13	3		- The concept, characteris and procedures purchasing capital equipme		
14	3		- Electronic purchasing		
15	3		- Green purchasing		

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)	- Materials Management Book, 2002: written by Dr. Abi Saeed Al-Diwaji, Dr. Akram Ahmed Al-Taweel, Dr. Durman Suleiman Sadiq, University House for Printing and Publishing, University of Mosul. - Materials Management Boo Purchasing and Storage from Quantitative Perspective, 1997, writt by Omar Wasfi Aqili, Moneim Gl Zamzir, Qahtan Badr Al-Abdali, Dar Yazouri for Publishing and Distribution
Recommended books and references (scientific journals, reports…)	- Purchasing and Storage Management Book: A Modern Introduction to Materials Management, 2010, written b Muhammad Al-Adwan, Ali Al-Mashaqba Haitham Al-Zoubi, Dar Al-Safaa for Publishing and Distribution, Amman. - Materials Management Boo Purchasing and Storage, 2010, written Suleiman Khaled Obaidat, Mustafa Naje Shawish. Dar Al-Masirah for Publishi and Distribution, Amman.
Electronic References, Websites	

Course Description Form

1. Course Name: Materials management and inventory control/2

2. Course Code: **IADM301**

3. Semester / Year: the second

4. Description Preparation Date:1/9/2023

5. Available Attendance Forms: Daily attendance according to the lecture schedule

6. Number of Credit Hours (Total) / Number of Units (Total) 30 hours (2 hours per week)

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

Name: Dr. Ali Waleed Hazim
Email: ali_waleed@uomosul.edu.iq

8. Course Objectives

Course Objectives	**Introducing the student to the skills and knowledge relate inventory planning and determining storage levels, as wel how to prepare warehouse documents, deal with departme within the company, and learn about the latest means of handling process in the current era and their importanc preserving materials.**

9. Teaching and Learning Strategies

Strategy	1- laining the scientific material to students in detail. 2- Students' participation in solving mathematical problems. 3- Discussion and dialogue about vocabulary related to t topic.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	2		- Storage function: concept importance	Theoretical lectu	Exams, ask oral questic and the ability discuss
2	2		- Objectives of the warehousing function in industrial organizations		
3	2		-Types of warehouses industrial organizations		
4	2		- Organizing the stor function		
5	2		- Location of warehou within the organization		
6	2		- Warehouse design		
7	2		- Work procedures in the fi of storage		
8	2		- The handling and importance		
9	2		- Choose appropr handling tools		
10	2		- Determine storage levels		
11	2		- Inventory planning		
12	2		- Monitoring the cycles different types of differ materials		
13	2		- Description, classificat and differentiation of stora		
14	2		- Storage protection rules		
15	2		- Green storage		

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)	- Materials Management Book, 2002: written by Dr. Abi Saeed Al-Diwaji, Dr. Akram Ahmed Al-Taweel, Dr. Durman Suleiman Sadiq, University House for Printing and Publishing, University of Mosul. - Materials Management Boo Purchasing and Storage from Quantitative Perspective, 1997, writt

	by Omar Wasfi Aqili, Moneim Gl Zamzir, Qahtan Badr Al-Abdali, Dar Yazouri for Publishing and Distribution
Recommended books and references (scientific journals, reports…)	- Purchasing and Storage Management Book: A Modern Introduction to Materials Management, 2010, written b Muhammad Al-Adwan, Ali Al-Mashaqba Haitham Al-Zoubi, Dar Al-Safaa for Publishing and Distribution, Amman. - Materials Management Boo Purchasing and Storage, 2010, written Suleiman Khaled Obaidat, Mustafa Naje Shawish. Dar Al-Masirah for Publishi and Distribution, Amman.
Electronic References, Websites	

Course Description Form

1. Course Name:
Cost accounting (2)
2. Course Code:
IM3235ICA2
3. Semester / Year:
2023_2024 the second course | first study | the first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
The lecture is in person
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours |30 hours
7. Course administrator's name (mention all, if more than one name)
Name: Thanya Ismeal Thanoon Email: Thanya.bap252@student.uomosul.edu.iq
8. Course Objectives

a. Understand basic concepts. **B. Understanding theories.** **T. Analytical ability.** **Th. Use reference sources.** **C. Application of knowledge.** **H. critical thinking.** **Kh. Sustainable learning.** **Dr. Learn about technology.**	**The student gains experience and knowledge in the fields of cost accounting in factories and companies And labor markets. Determine the cost of production factors used, control them, and provide the necessary data For future planning. In addition to the continuous development of the economic system.**

9. Teaching and Learning Strategies	
Strategy	**a. Case studies and practical projects.** **B. Group discussions.** **T. Use of multimedia.** **Th. Active learning techniques.** **C. Use of information and communications technology.** **H. Stimulate critical thinking.** **Kh. Encouraging cooperative learning.** **Dr. Provide constructive feedback**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning	Evaluation method

				method	
1	2	Providing the student with the concept of cost accounting and its developments Student understanding of cost classifications and their behaviours The student can prepare lists of costs	Cost accounting	Weekly, monthly, daily, and written exams, and the end-of-course exam..	Understand basic concepts. Search and explore Solve practical problems. Interaction and discussion. Continuous evaluation. Practical application. Encouraging self-learning.
2	2				
3	2				
4	2				
5	2				
6	2				
7	2				
8	2				
9	2				
10	2				
11	2				
12	2				
13	2				
14	2				
15	2				

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
40% | pursuit
20 | semester exam
10 | attendance
5 | daily exam
5 | homework
60% | final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Cost accounting
Recommended books and references (scientific journals, reports…)	Cost Accounting (Theoretical Study and Applied Procedures) by Dr. Muhammad Ali Ahmed Al-Saydiya
Electronic References, Websites	

Course Description Form

1. Course Name:
Maintenance and replacement management
2. Course Code:
3. Semester / Year:
Chapter (second course)
4. Description Preparation Date:
2024
5. Available Attendance Forms:
My presence only
6. Number of Credit Hours (Total) / Number of Units (Total)
45hours in the course. 3 hours per week
7. Course administrator's name (mention all, if more than one name)
Zaid Khaleel Ibrahim Zaid.khaleel@uomosul.edu.iq
8. Course Objectives

Q. Understand basic concepts. **R. Understanding theories.** **S. The ability to analyse.** **T. Use reference sources.** **U. Application of knowledge.** **V. critical thinking.** **W. Sustainable learning.** **X. Learn about technology.**	Achieving these cognitive goals contributes enabling students to have a deep understandin the field of maintenance and replacem management for industrial facilities and to prep for professional challenges in this field.

9. Teaching and Learning Strategies	
The strategy	**Q. Case studies and practical projects.** **R. Group discussions.** **S. Use of multimedia.** **T. Active learning techniques.** **U. Use of information and communications technology.** **V. Stimulate critical thinking.** **W. Encouraging cooperative learning.** **X. Provide constructive feedback.** **These strategies can help enhance the students' learning experience and achieve the spe learning objectives for the Maintenance and Replacement Management course**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1 2 3 4 5)updated 6 7 8 9 10)updated 11 12 13 14 15	3 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3hours	a) replacement management of industrial facilities. b) Efficient use of space and resources. c) Occupational Safety and Health. d) Sustainability . e) Cost control. f) Use of technology. Achieving these objectives can pave way for students achieve excellence in field of maintenance replacement management industrial facilities.	Maintenance Management And replacement	**Understand basic concepts.** **Search and explore** **Solve practical problems.** **Interaction and discussion.** **Continuous evaluation.** **Practical application.** **Encouraging self-learning.** **These steps help facilitate learning process of Maintenance and Replacer Management course in an effe and comprehensive manner**	**Weekly, monthl y, daily, written exams, and the end-of-course exam**.

11. Course evaluation

Formative assessment Daily tests25% (5)
Reports 15% (5)
Contributions 15% (5)
Practical test25% (10)
Final assessment Semester exam 2 hours 20% (10)
Final exam: 3 hours 60% (50)
Final score 100% (100)

12. Learning and teaching resources

Required textbooks (methodology, if any)	Maintenance and replacement manageme
Main references (sources)	Rami Hikmat Al-Hadithi
Recommended supporting books and references (scientific journals, reports....)	Some reports on maintenance operations
Electronic references, Internet sites	

Course Description Form

1. Course Name: Principles of statistics
training in companies
2. Course Code:
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: assistant teacher RAYAN MOHAMMED Email: rayan.m.thyab@uomosul.edu.iq
8. Course Objectives

Course Objectives	Achieving these cognitive goals contributes to empowering students From learning about the importance of training in companies and how to conduct training For members of the workforce in organizations and the importance of training and empowerment Managing the organization for new and existing employees Identifying the behaviours, skills and knowledge to be developed The mechanism for conducting internal and external training and who are the trainers and trainees by identifying training needs based on the individual or organization or according to the place of conduct and

	identifying the types of training, including administrative, specialized and technical.

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 training in companies The historical development of training and stages The concept, definition, importance and objectives of training at the individual and organization levels Types of training Training advantages The difficulties faced by training Training needs concept and stages Methods of assessing and designing training needs ISO 10015 training standard The concept of quality training Electronic training		

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	

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Course description guide for the fourth stage

2024

Course Description Form

Course Name: Industrial information systems and modern systems
1.
2. Course Code:
3. Semester / Year: 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 teacher shahad adil Email: shahad.adil@uomosul.edu.iq
8. Course Objectives

Course Objectives	1- Introducing students to the concept of industrial information systems and information technology. 2- Introducing students to the concept of artificial intelligence and distinguishing between it and human intelligence. 3- Identify the modern systems used

	in manufacturing processes.

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
			- A theoretical introduction to industrial information - Types of manufacturing systems -General introduction to information technology -Manufacturing processes based on information technology -Expert systems and decision support systems - Semester exam -Manufacturing information systems and technology and their relationship to the organization's strategy - Information technology		

			and human resources -Training and development in the field of information technology -Information technology and process re-engineering -Information technology and its electronic operation -artificial intelligence -Information systems and paperwork -Applications in industrial management Semester 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)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name: Expert systems and artificial intelligence

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): (3 hours per week)

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

Name: assistant teacher shahad adil
Email: shahad.adil@uomosul.edu.iq

8. Course Objectives

Course Objectives	Learn about the concept of expert systems and its types. 2- Identify the uses of expert systems in administrative work. 3-Learn about the concept of artificial intelligence, its types, and ways to use it in administrative work. 4- Training the student on how to benefit from expert systems and artificial intelligence in a positive way to achieve goals.

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
			A conceptual introduction to artificial intelligence Types of artificial intelligence -The importance of artificial intelligence -Objectives of artificial intelligence -Features of artificial intelligence -Fields of artificial intelligence specialization -Evaluation exam -Introduction to expert systems and their concept -Features and limitations of expert systems -Expert systems architecture (its components) -Expert systems applications -Languages used in expert systems		

			-Neural networks -Big data and nanotechnology manufacturing systems -Pursuit determination 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)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name: feasibility studies and projects evaluation
2. Course Code: IM4155PE
3. Semester / Year: first
4. Description Preparation Date: 15/9/2024
5. Available Attendance Forms: Mandatory attendance for 15 weeks
6. Number of Credit Hours (Total) / Number of Units (Total): (4 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	1- Learn about the concept of projects evaluation . 2- Identify the uses of projects evaluation in administrative work. 3-Learn about how measurement the performance efficiency the production projects. 4- Training the student on how to benefit from projects evaluation in a

	positive way to achieve goals.

9. Teaching and Learning Strategies	
Strategy	1. Lecture and seminars method. 2. Discussion method. 3. the reports and assignments .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Introduction to project evaluation Stages of evaluating economic proposals Primary selection and initial feasibility of advertising Detailed feasibility study Returns and costs in economic projects The present value of the flows and basic assumptions of the discounting process. Case studies on feasibility studies and project evaluation Criteria for evaluating economic projects Business profitability standards National economic profitability		

			standards Evaluating performance efficiency in industrial units Criteria for evaluating performance in production units Criteria for evaluating performance in production units Criteria for evaluating performance in production units Case studies on measuring the efficiency of performance of production projects .		

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: feasibility studies and projects evaluation

2. Course Code: IM4155WS

3. Semester / Year: second

4. Description Preparation Date: 15/1/2024

5. Available Attendance Forms: Mandatory attendance for 15 weeks

6. Number of Credit Hours (Total) / Number of Units (Total): (4 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	**1. Learn the student concepts of work study and how solve the problem in systematic .** **2. Ability to develop new methods to do the work in efficiency .** **3. Regular assessment to work method to check its effective .**

9. Teaching and Learning Strategies

Strategy	1. Lecture and seminars method. 2. Discussion method. 3. the reports and assignments .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Human engineering/general		

			concepts Human body specifications and their impact on work productivity Human body specifications and their impact on work productivity Practical applications of ergonomics Designing machines and tools according to the rules of human engineering Ergonomics and physical working conditions Green ergonomics Work study/general concepts Productivity and work study Semester exam Study of movement Study of movement Measurement of work Using the five steps in the work environment		

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

Course Name: Expert systems and artificial intelligence
1. Operations Research
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	1. Providing the student the information about operations research and its basic stages. 2. Simulating some problems related to linear programming problems in order to enable students to learn how to use them. 3. Providing the student with knowledge on how to use the contrastive and binary methods. 4. Introducing the student to the concept of sensitivity analysis.

	5. Providing realistic examples in order to facilitate the student's understanding of the vocabulary of the subject

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		Operations research concept and stages		Monthly daily examinations t Final examination
2	3 Hours				
3	3 Hours		Building a mathematical model for linear programming and linear programming formulas		
4	3 Hours				
5	3 Hours				
6	3 Hours				
7	3 Hours				
8	3 Hours				
9	3 Hours		Methods for solving linear programming models		
10	3 Hours				
11	3 Hours				
12	3 Hours		The dual model with solving exercises		
13	3 Hours		dual simplex		
14	3 Hours		sensitivity analysis		
15	3 Hours		Markov chains Nonlinear programming		

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…)	Operations research: concept and application Quantitative methods and operations research
Electronic References, Websites	some online sources

Course Description Form

Course Name: Expert systems and artificial intelligence
1. Operations Research/2
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): (3 hours per week)
7. Course administrator's name (mention all, if more than one name)
Dr. Bassam Muneb Ali/ Assistant professor basam_moneb@uomosul.edu.iq
8. Course Objectives

Course Objectives	**1. Providing the student information about transportation models and how to find primary solutions to them.** **2. Simulating some problems related to transportation problems to help students recognize how to use them.** **3. Providing the student with knowledge about how to use network diagrams to complete projects, as well as using basic methods to achieve this.** **4. Introducing the student to game theory and ways to find its value.** **5. Focus on simulating some realistic cases in order to bring some concepts related to operations research closer to students.**

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 3 4 5 6 7 8 9 10 11 12 13 14 15	3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours		Transportation Models Business networks Game theory Waiting lines Inventory planning a control	Understand basic concepts. Research and exploratio Practical problem solving. Interaction and discussio Continuous assessment. Practicality Encourage self learning. These steps help mak easier The learning process operations rese methods	Monthly daily examinations Final examination

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…)	Operations research: concept and application Quantitative methods and operations research
Electronic References, Websites	some online sources

Course Description Form

1. Course Name: International standards and quality awards
Production planning and control systems/1
2. Course Code:
3. Semester / Year: first/fourth
4. Description Preparation Date: 2024
5. Available Attendance Forms: Mandatory attendance for 15 weeks
6. Number of Credit Hours (Total) / Number of Units (Total): (4 hours per week)
7. 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
8. Course Objectives

Course Objectives	• **To provide students with cognitive skills in production planning and control systems 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.**

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
			- master production scheduling		

			functions - master production scheduling functions - problems in master production scheduling - Mathematical method in master production scheduling (applications) - Mathematical method in master production scheduling (applications) - Mathematical method in master production scheduling (applications) - Mathematical method in master production scheduling (applications) - The location of the master production scheduling within CIT and its relationship to the MRP system - technical composition of the product - Levels of calculating the technical composition of the product (applications) - Levels of calculating the technical composition of the product (applications) - industrial inventory MRP system (concept, importance) - The requirements for implementing the MRP system - inputs and outputs of the MRP 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)	-
Recommended books and references (scientific journals, reports…)	-
Electronic References, Websites	

Course Description Form

1. Course Name: International standards and quality awards
Production planning and control systems/2
2. Course Code:
3. Semester / Year: second /fourth
4. Description Preparation Date: 2024
5. Available Attendance Forms: Mandatory attendance for 15 weeks
6. Number of Credit Hours (Total) / Number of Units (Total): (4 hours per week)
7. 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
8. Course Objectives

Course Objectives	• **To provide students with cognitive skills in production planning and control systems 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.**

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
			- JIT system concept and importance - JIT system		

			requirements - JIT system elements - JIT system objectives - JIT system principles - Kanban system (concept, importance) - How the Kanban system works - Types of Kanban cards - Planning in JIT system - OPT System (Definition, Concept) - How the OPT system works - assumptions of the OPT system - Comparison between (OPT), (JIT) and (MRP) systems - Mass- customization system - quick response 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)	-
Recommended books and references (scientific journals, reports…)	-
Electronic References, Websites	

Course Description Form

1. Course Name: Principles of statistics
Quality management systems 1
2. Course Code:
3. Semester / Year: 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 teacher: dr ahmed hani Email: ahmed_hani@uomosul.edu.iq Name: assistant teacher RAYAN MOHAMMED Email: rayan.m.thyab@uomosul.edu.iq
8. Course Objectives

Course Objectives	Achieving these cognitive goals contributes to empowering students To learn about the principles of standardization and the concept and its importance in the fields Administrative and productive, knowing the mechanism for calculating the percentages of defects and spoilage, and setting the highest and lowest quality limits In order to reach results that help in decision making

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
			Standardization concept and importance Standardization: foundations, pillars, and types Historical development of the concept of quality control Quality control concept and importance Quality control types and steps Quality control panels: concepts, importance and types Panels for controlling variables and defects, concept and types Practical applications for quality control boards Characteristics control panels Practical applications for controlling qualities The seven important tools, types and objectives		

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: Principles of statistics
Quality management systems 2
2. Course Code:
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): (3 hours per week)
7. Course administrator's name (mention all, if more than one name)
Name: assistant teacher: dr ahmed hani Email: ahmed_hani@uomosul.edu.iq Name: assistant teacher RAYAN MOHAMMED Email: rayan.m.thyab@uomosul.edu.iq
8. Course Objectives

Course Objectives	Achieving these cognitive goals contributes to empowering students From learning about the company's quality assurance principles and learning about the chain ISO specifications, standard specifications items, and how to qualify companies To obtain 9001/14001/ environmental strategies and environmental goals How to treat industrial waste and manage industrial pollution By addressing the concept of sustainable production and the dimensions of sustainable development

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
			The concept of the company's quality assurance system, its importance and historical development Definition of Standard 9001-2015/ Updated concepts related to Standard 9001-2015 Steps to qualify Standard 9001-2015 Principles of Standard 9001-2015 Stages of qualifying small companies Standard 9001-2015 Environmental Management System ISO 14001 Environmental strategies for ISO 14001 Environment, environmental system, and environmental management systems Auditing Environmental management systems in terms of implementing agency / field / industrial pollution management and methodology for diagnosing environmental impacts / updated Sustainable production and sustainable development concept and historical development / updated Dimensions of sustainable development and strategies for sustainable industrial development / updated		

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	

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide
Diploma in Industrial Management

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: university of Mosul
Faculty/Institute: Administration & Economics
Scientific Department: Industrial Management Dept.
Academic or Professional Program Name: Diploma on Industrial Management
Final Certificate Name: High Diploma in Industrial Management
Academic System: Course
Description Preparation Date:
File Completion Date:

Signature:
Head of Department Name: Dr. Raad Adnan Raouf
Date: 2024/4/3

Signature:
Scientific Associate Name: Prof. Dr. Alaa Abdulsalam Alhamadany
Date: 23/4/2024

The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:
Date: 24/4/2024
Signature:

Approval of the Dean

1. **Program Vision**
Meeting the requirements of the labor market for graduates who hold a high diploma in the field of industrial management, qualified with the cognitive skills that enable them to work in public and private sector institutions efficiently and effectively and contribute effectively to the development of the field of work.

2. **Program Mission**
Obtaining qualified graduates armed with diverse sciences and knowledge in the field of industrial management, able to work in public and private institutions and having the ability to study, analyze and solve problems related to the field of work.

3. **Program Objectives**
1. Knowledge enrichment in the field of production and operations. 2. Qualifying capabilities to deal with the field of work in the field of specialization. 3. Providing the student with experience and skills in the field of specialization. 4. Encouraging and motivating the student to generate creative ideas in addressing problems in the field of production and operations.

4. **Program Accreditation**

5. **Other external influences**
Ministry of Higher education

6. **Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First year / first course	AEIM19-501	Production Management	2	
First year / first course	AEIM19-502	Industry marketing	1	
First year / first course	AEIM19-503	Knowledge management	1	
First year / first course	AEIM19-504	Manufacturing systems	1	
First year / first course	AEIM19-505	Maintenance management	1	
First year / first course	AEIM19-506	Readings in industrial management	1	
First year / second course	AEIM19-507	Quality management	2	
First year / second course	AEIM19-508	Work study	2	
First year / second course	AEIM19-509	Quantities methods	1	
First year / second course	AEIM19-5010	Environmental management	1	
First year / second course	AEIM19-5011	Scientific research methods	1	

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	

Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Teaching strategies: lecture, discussion, problem solving, project-based learning, cooperative learning, brainstorming, discovery learning, and e-learning.

Learning strategies: spaced practice, studying, inferring, exchanging ideas, providing examples, and double coding.

10. Evaluation methods

Exams, assignments, daily assignments, discussions, end-of-course reports, master's thesis..

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

State briefly the sources of information about the program.

14. Program Development Plan

Course Description Form

1. Course Name: Maintenance & Replacement management

2. Course Code: IM4155MM

3. Semester / Year: first

4. Description Preparation Date: 1/9/2023

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	**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 .**

9. Teaching and Learning Strategies

Strategy	1. Lecture and seminars method. 2. Discussion method. 3. the reports and assignments .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

			Introduction to maintenance management: concepts, principles and functions Classifications of maintenance types Introduction to the holidays Administrative activities of the maintenance department Trade-offs between maintenance policies Maintenance costs Work order system Indicators for measuring maintenance performance Reliability engineering for machines and equipment Replacement of machinery and equipment Industrial maintenance and safety Risk based maintenance Green maintenance Contemporary approaches in the field of maintenance		

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	

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide Diploma in Quality Management

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

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Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: University of Mosul

Faculty/Institute: College of Administration and Economics

Scientific Department: Industrial Management

Academic or Professional Program Name: Diploma in quality Management

Final Certificate Name: Diploma in quality Management

Academic System: Courses

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name:
D:R · Raad Adnan Raouf

Date: 2024/4/3

Signature:

Scientific Associate Name:
Prof. Dr. Alaa Abdulsalam Alhamadany

Date: 23/4/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 24/4/2024

Signature:

Approval of the Dean

1. **Program Vision**
Developing and training job cadres in government institutions in multiple specializations to spread and consolidate the principles and values of quality among individuals working in public institutions at all administrative levels.

2. **Program Mission**
Obtaining qualified outputs in the field of quality management capable of continuous research and improvement and finding developmental solutions in the field of work.

3. **Program Objectives**
1. Knowledge enrichment in the field of quality of goods and services. 2. Building capacity to address practical problems in the field of quality. 3. Qualified for a position related to managing tasks related to management systems.

4. **Program Accreditation**
AACSB

5. **Other external influences**
Government / ministry of higher education

6. **Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First year / first course	AEIMQ19-501	Prizes of Quality & ISO	2	
	AEIMQ19-502	Accounting of Quality cost	1	
	AEIMQ19-503	Approaches of Quality Strategies	2	
	AEIMQ19-504	TQM	1	
	AEIMQ19-505	Readings in Quality management	1	
First year / second course	AEIMQ19-506	Tools Of Continues Improvement	2	
	AEIMQ19-507	Work teams & Quality Circles	1	
	AEIMQ19-508	ISO & Accreditation	2	
	AEIMQ19-509	Statistical Methods Implications	1	
	AEIMQ19-510	Methods of scientific researches	1	

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2

Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Teaching strategies: lecture, discussion, problem solving, project-based learning, cooperative learning, brainstorming, discovery learning, and e-learning.

Learning strategies: spaced practice, studying, inferring, exchanging ideas, providing examples, and double coding.

10. Evaluation methods

Implemented at all stages of the program in general.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional

development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

State briefly the sources of information about the program.

14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

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 2 3 4	3 Hours 3 Hours 3 Hours 3 Hours		Continuous improvement of quality in the production and		Monthly daily examinations

5 6 7 8 9 10 11 12 13 14 15	3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours 3 Hours		services sector. history of continuous improvement and the concepts associated with it. Continuous improvement tools Continuous improvement models PDCA, DMAIC RADAR Gemba - Kaizen. The concept of work teams in continuous improvement Problem Solving Spreading a culture of continuous improvement in industrial and service organizations The relationship of continuous improvement to modern manufacturing systems		Final examination

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 Commonse Approach to a Continuous Improvement Strategy", 2nd Edit 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.		

			- 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. - STMicroelectronics. - Case studies: Total Quality Management at AT&T. - 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)	
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
			- 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		

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 manageme		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
6	2 Hours		difference between		examination
7	2 Hours		and total quality		

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

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	• **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

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide Master

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: University of Mosul

Faculty/Institute: College of Administration and Economics

Scientific Department: Industrial Management

Academic or Professional Program Name: Master in Industrial Management

Final Certificate Name: Master in Industrial Management

Academic System: Courses

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name: Dr. Raad Adnan Raouf

Date: 2024/4/3

Signature:

Scientific Associate Name: Prof. Dr. Alaa Abdulsalam Alhamadany

Date: 23/4/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 24/4/2024

Signature:

Approval of the Dean

1. Program Vision

Responding to changes in the labor market on an ongoing basis in order to provide labor market requirements for master's degree holders that meet the needs of the labor market and achieve the goals and ambitions of production and service institutions.

2. Program Mission

Outputs that have diverse academic abilities and the ability to work skillfully and deal with various problems in the work environment positively and find creative solutions in addressing problems in the field of work.

3. Program Objectives

1. Providing the student with analytical skills by reviewing theoretical frameworks.
2. Establishing a culture of scientific research according to a scientific sequence.
3. Building cognitive capabilities to deal with problems related to specialization.

4. Program Accreditation

AACSB

5. Other external influences

Ministry of higher education & scientific research

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution				

Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First year / First course	AEIM19-601	Quality management	3	
First year / First course	AEIM19-602	Industries logistic manag.	1	
First year / First course	AEIM19-603	Maintenance manag.	3	
First year / First course	AEIM19-604	Computer skills	1	
First year / First course	AEIM19-605	Advanced statistic	1	
First year / First course	AEIM19-606	Ethics of scientific research	1	
First year / Second course	AEIM19-607	Contemporary manufacturing systems	3	
First year / Second course	AEIM19-608	Production management	3	
First year / Second course	AEIM19-609	Industries marketing	1	
First year / Second course	AEIM19-6010	Readings in industrial management	1	
First year / Second course	AEIM19-6011	Inventory control	1	
First year / Second course	AEIM19-6012	Work study & Ergonomics	1	
First year / Second course	AEIM19-6013	Knowledge management	1	
Second year / thesis				

8. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Teaching strategies: lecture and recitation, discussion, problem solving, project-based learning, cooperative learning, brainstorming, discovery learning, and e-learning.

Learning strategies: spaced practice, studying, inferring, exchanging ideas, providing examples, and double coding.

10. Evaluation methods

Exams, assignments, daily assignments, discussions, end-of-course reports, master's thesis.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. **Acceptance Criterion**
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. **The most important sources of information about the program**
State briefly the sources of information about the program.

14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

Course Name: Expert systems and artificial intelligence

1. Logistics 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 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.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours		Logistics managem (concept and histor development). Logistics managem planning and organizati Basic and support logistics managem activities Purchasing activ storage activ transportation activ distribution activity Logistics managem challenges Green logistics Supply chain manageme Supply chain risks Leagile 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:
AEIM23-6013
3. Semester / Year:
2023 (second course)
4. Description Preparation Date:
15/11/2023
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' learni experience and achieve the learning objectives set for t

	Principles of Management course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1	3hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours	**a. Teaching and learnin methods** **C. thinking skills** **Developing knowledge management skills** **Dealing with intellectua capital** **What exists in the organization and how** **Developing employees' skills in form** **Which leads to achievin 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 explanatior For study cases/ Case studies of organizations	Exams (daily, monthly, quarterly, surprise). .Reports Daily posts . Khadour

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 / -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:
3. Semester / Year:
The socend is 2023-2024
4. Description Preparation Date:
1/10/2023
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 progr 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 the 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	-Lecture with discussions -Preparing reports according to approved vocabulary - Daily, weekly, monthly homework - Daily and quarterly tests - smart board -Power Point questions and answers

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 lectur	discussion
4-5	2	Analysis indicators	Financial analysis	Theoretical lectur	Discussion
6-7	2	Policies followed	Working capital	Practical lecture	Discussion
8-9	2	Project evaluation method	Investment decisio	Theoretical lectur	Discuss and revi practical researc
10-11	2	Financing policies	Financing decisions	Theoretical lectur	Discussion
12	2	Measurement methods	Financial sustainability	Theoretical lectur	Discussion
13	2	Policy classification	Profit distribution policies	Theoretical lectur	Discussion
14	2	Contemporary studies	Specialized topics	Theoretical lectur	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, any)	Eugene F.Brigham & Michael C . Ehrhardt , Financ Management,2008 .
Main references (sources)	Muhammad Ali Al-Amiri, Advanced Financ 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		

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.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			An introductory introduction to environmental management 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, motivations for adopting environmental management, advantages and obstacles 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,		

			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		

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 Form

1. Course Name:
Emergency Management and Crisis Management
2. Course Code
3. Semester/Year: First Semester
fiest semester /2024
4. Date of Preparing this Description: November 15, 2023
2023 /11/15
5. Available Attendance Modes
On-campus only
6. Total Study Hours/Total Units:
30 hours for the course. 2 hours per week
7. Name(s) of Course Instructor(s) (if more than one, mention all
Assistant Professor.Dr.Raghed Ibrahim Esmaeel ragheed.ibrahim@uomosul.edu.iq

1. Course objectives

• The Crisis and Emergency Management course in the Industrial Management Master's program aims to provide students with the necessary knowledge and skills to understand and manage emergency situations and crises that can impact the operations of companies and industries. This course is a crucial part of business and industrial management programs due to its importance in ensuring the sustainability and resilience of businesses and enterprises. • The general description of the Crisis and Emergency Management course	**A. Understand basic concepts.** **B. Comprehend theories.** **C. Ability to analyze.** **D. Use reference sources.** **E. Apply knowledge.**

includes a set of key elements: • Understanding Crises and Emergencies: The course includes a comprehensive study of the concept of crises and emergencies, including potential types of crises such as natural disasters and economic events. • Risk Assessment: The focus is on how to assess risks and prepare for various potential scenarios. This includes analyzing potential damages and assessing necessities and priorities. • Response Planning: The course involves developing response plans to deal with crises and emergencies, including identifying roles and responsibilities and directing real-time actions. • Crisis Management: The emphasis is on how to manage crises when they arise, interact with stakeholders, and make critical decisions to maintain business continuity. • Business Recovery: Students learn how to plan for business recovery operations after a crisis or emergency, including restoring infrastructure and resuming core operations. • Lessons Learned: Students are required to study lessons learned from previous crises and how to	F. **Critical thinking.** G. **g. Lifelong learning.** H. **h. Identify technologies.**

develop better strategies for the future. • The Crisis and Emergency Management course plays a vital role in preparing students to face unexpected challenges and emergency situations in the field of industrial management. It provides them with the necessary tools and knowledge for planning, implementation, and recovery in crisis situations, contributing to the achievement of sustainability and success in industrial operations.	
1. B. Evaluation methods	
• Understanding the theoretical foundations of crisis and emergency management: Defining the basic concepts and theories related to crisis and emergency management and how to apply them in the context of industrial management. • Developing administrative skills: Providing students with the necessary skills to deal with emergency situations and manage risks in the industrial work environment. • Planning and preparing for crises: Teach students how to assess risks and develop strategies to deal with potential crises. • Implementing plans and responding to crises: Introducing students to the steps of responding to crises and how to implement pre-prepared plans. • Performance evaluation and learning from crises: Enhancing the ability to evaluate management's performance in the face of crises and use learning from crises to improve future performance. • As for the indicative content of the course, it can include topics such as	

	industrial crisis management, emergency supply chains and warehousing, emergency communication, developing crisis plans, risk management, and legislation and regulations related to crisis management.	

1. **Course structure**

Week	Hours	Required learning outcomes	Name of the unit/course or subject	Teaching method		Evaluation method
1	2		**Concept of Crisis, Types of Crisis, Causes of Crisis**			
2	2		**Stages of Crisis Management, Requirements for Facing a Crisis**			
3			**Strategies for Confronting Crisis Management**			
4			**•Crisis Management and Its Relationship to Supply Chain Management**			
5			**•Crisis Management and Its Relationship to Risk Management**			
6			**• Quality Management and Its Relationship to Crisis Management**			
7			**• Crisis Management and Its Relationship to Knowledge Management**			
8			**• Crisis Management and the Fourth Industrial Revolution**			
9			**• Emergency Management, Emergency Management Strategies**			
10			**• Emergency Management and Logistics Management**			
11			**• Emergency Management and Business Process Reengineering**			
12			**• Developing an Emergency Management Case Specific to the Operations Plan**			

13			**• Smart Technologies for Emergency Response and Disaster Management**	
14			**• Emergency Management and Risk Management**	
15			**Exam**	

Formative Assessment:
Daily Quizzes 2 5% (5)
Reports 1 5% (5)
Participations 1 5% (5)
Practical Exam 2 5% (10)
Final Assessment:
Midterm Exam 2 hours 20% (10)
Final Exam 2 hours 70% (70)
Final Grade 100% (100)

-Learning and Teaching Resources

Required Textbo (Methodology if available)	• Farazmand, A. (2017). Crisis and Emergency Management: Theory and Practice, Second Edition. United States: Taylor & Francis.
Main References (Sources)	• .2Phillips, B., Neal, D. M., Webb, G. (2016). Introduction to Emergency Management, Second Edition. United Kingdom: Taylor & Francis. • 3. Bullock, J., Haddow, G., & Coppola, D. (2017). Introduction to emergency management. Butterworth–Heinemann.
Recommended Suppor Books and Referer (Scientific Journals, Repo etc	
Electronic Resources, Websites	

Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide Doctorate

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Mosul

Faculty/Institute: Collage of Adminstration & Economics

Scientific Department: Industrial management Dept.

Academic or Professional Program Name: Dectorate on Industrial Management

Final Certificate Name: P.H.D Industrial Management.

Academic System: Course

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name: Dr. Raad Adnan Raouf

Date: 2024/4/3

Signature:

Scientific Associate Name: Prof. Dr. Alaa Abdulsalam Alhamadany

Date: 23/4/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 24/4/2024

Signature:

1. **Program Vision**
In response to developments and changes in the labor market and working to provide academics with high scientific abilities and skills that meet the requirements of the labor market and raise the scientific level of educational institutions in the public and private sectors.

2. **Program Mission**
Providing scientific cadres with specializations capable of keeping pace with developments in the field of higher education and actively contributing to solving practical problems in the practical field.

3. **Program Objectives**
1. Knowledge enrichment in the field of specialization. 2. Building analytical capabilities to interact with and address problems. 3. Encouraging and motivating the student to generate creative ideas in addressing problems in the field of production and operations.

4. **Program Accreditation**
ACSB

5. **Other external influences**
Ministry of Higher Education

6. **Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First year / first course	AEIM19-701	Production management	3	
	AEIM19-702	Advanced manufacturing systems	3	
	AEIM19-703	Environmental Management	3	
	AEIM19-704	Technologies Management	3	
	AEIM19-705	Ergonomics	3	
	AEIM19-706	Statistical analysis	3	
First year / second course	AEIM19-707	Quality management Systems	3	
	AEIM19-708	Qualitative methods	3	
	AEIM19-709	Marketing techniques	3	
	AEIM19-7010	Industries logistics management	3	
	AEIM19-7011	Maintenance management	3	
	AEIM19-706	Specialized research circle	3	

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Teaching strategies: lecture, discussion, problem solving, project-based learning, cooperative learning, brainstorming, discovery learning, and e-learning.

Learning strategies: spaced practice, studying, inferring, exchanging ideas, providing examples, and double coding.

10. Evaluation methods

Exams, assignments, daily assignments, discussions, end-of-course reports, master's thesis.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. **Acceptance Criterion**
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. **The most important sources of information about the program**
State briefly the sources of information about the program.

14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

1. Course Name: International standards and quality awards
Contemporary approaches to maintenance and replacement management
2. Course Code:
3. Semester / Year: Second/ PH.D
PH.D 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: Professor Dr. Adel Thaker Al-Naama Email: adelalnaama@uomosul.edu.iq
8. Course Objectives

Course Objectives	• **Providing the student with the cognitive foundations of contemporary approaches to maintenance and replacement management and the extent of their application in the field.**

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
			- Learn about the development of maintenance and contemporary thinking		

			- Maintenance classifications approaches - Maintenance classifications approaches - Planning for maintenance work - Planning for maintenance work - Planning for maintenance work - Strategic perspective of maintenance - Strategic perspective of maintenance - break-down analysis - Reliability study - Reliability-based maintenance - Reliability-based maintenance - replacement study - Maintenance by risks - Self maintenance		

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: Advanced manufacturing systems

2. Course Code:

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. Adel Thaker Al-Naama
Email: adelalnaama@uomosul.edu.iq

8. Course Objectives

Course Objectives	• **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
			- 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: AEIM23-704

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	• **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	Unit or subject name	Learning method	Evaluation method

		Outcomes			
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 13 14	3 3 3		Sources of industrial pollution, its characterization, estimation, and treatment. Discuss reports. 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:
AEIM23−7011
3. Semester / Year:
2023 (second course)
4. Description Preparation Date:
15/11/2023
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' learni experience and achieve the learning objectives set for t Principles of Management course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	3hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours	**a. Teaching and learnir methods** **C. thinking skills** **Developing knowledge management skills** **Dealing with intellectu capital** **What exists in the organization and how** **Developing employees' skills in form** **Which leads to achievi 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 explanatior For study cases/ Case studies of organizations	Exams (daily, monthly, quarterly, surprise). .Reports Daily posts . Khadour

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 ttp://www.library.nhs.uk/knowledgemanagement/ by Géraud Servin - The Complete Guide to Knowledge Management *A Strategic Plan to Leverage Your Company's Intellectual Capital* EDNA PASHER AND TUV RONEN	

Course Description Form

1. Course Name: PhD	
Crisis and emergency management	
2. Course Code:	
AEIM23-705	
3. Semester / Year:	
2023 (first course)	
4. Description Preparation Date:	
15/11/2023	
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 manage crises and the risks resu from them and accompanying them, so that he can realize and understand how to with the crisis and the risks resulting from it, and how to benefit from all capabilities resources for the purpose of overcoming and resolving crises, and mitigating their eff and risks.
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 studen learning experience and achieve the learni objectives set for the Principles of Management cour

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	3hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours 3 hours	.Teaching and learning methods thinking skills Developing the s of dealing with crises and the r resulting from them, which organization may be exposed to, how to develop the skills managers in a way that leads achieving overcoming the effect these crises by dealing in a cor scientific manner with these cr with the aim of reducing t negative impact. General and transferable skills (o skills related to manageability exceptional circumstances and c situations)	Crisis and emergency management	Study lectures / Video explanatio For study cases/ Case studies of organizations	Exams (daily, monthly, quarterly, surprise). .Reports Daily posts . Khadour

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

Course Description Form

1. Course Name: Industrial logistics management

2. Course Code: AEIM24-7010

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. zahraa ghazi thanoon
Email: zahraa_ghazi@uomosul.edu.iq

8. Course Objectives

Course Objectives	• **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		

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-

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 Basic concepts about research		

			methodology Basic steps for choosing a research topic Mechanisms for writing a research problem Formulating the importance and objectives of scientific research Scientific research model and hypotheses (steps) with applied examples The scientific method in formulating previous studies How to formulate a theoretical framework in a master's thesis - Contents of the theoretical aspect - Mechanism for installing scientific sources - Install figures and tables Defining the community and selecting the sample and individuals studied Data collection methods Documents - notes - interviews - checklist and questionnaire Processing data and drawing conclusions The scientific method in writing conclusions, proposals and sources Study summary Discuss reports Tests		

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…)	− 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). Rese methods in business studies. Cambridge University Press.
Electronic References, Websites	