

## Course E-Syllabus

1	Course title	Maintenance management and Organization
2	Course number	0906753
3	Credit hours	3
	Contact hours (theory, practical)	3 theory + 0 practical (3 hrs 2 times per week for 8 weeks)
4	Prerequisites/corequisites	
5	Program title	Maintenance Engineering and Quality management
6	Program code	
7	Awarding institution	University of Jordan
8	School	School of Engineering
9	Department	Industrial Engineering
10	Level of course	Master
11	Year of study and semester (s)	2024-2025
12	Final Qualification	MSc
13	Other department (s) involved in teaching the course	none
14	Language of Instruction	English
15	Teaching methodology	Face to Face
16	Electronic platform(s)	
17	Date of production/revision	28 Sept. 2024

### 18 Course Coordinator:

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### 19 Other instructors:

Name:  
Office number:  
Phone number:  
Email:

Name:  
Office number:  
Phone number:  
Email:

## 20 Course Description:

The course focuses on teaching students on how to set up a company management policy in order to be able to participate in its definition as far as maintenance is concerned, formulate the maintenance policy within a company, formulate the maintenance goals, understand the different maintenance strategies and how to choose the right strategy, and to specify the requirements for the maintenance activities. Moreover, computerized maintenance management systems (CMMS) are discussed. Also, the course will cover topics in maintenance economics and costing (LCC/LCP) techniques/methods, Case studies will be given to support the knowledge

## 21 Course aims and outcomes:

### A- Aims:

Main objectives of this course are can be summerized in the following:

1. To introduce students to the relationship between maintenance management and the organization.
2. To Introduce students to maintenance planning and maintenance performance indicators.
3. To Introduce students to computerized maintenance management systems (CMMS)
4. To Introduce students to life cycle cost analysis and maintenance economics and costing ( LCC/LCP techniques/methods)

### B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course, students will be able to:

1. Student should be able to relate maintenance management system to the organization plan
2. Student should be able to determine maintenance performance indicators.
- 3 .Student should be able to use and apply computerized maintenance management systems (CMMS)
- 4 Student should be able to apply life cycle cost analysis and maintenance economics and costing ( LCC/LCP techniques/methods

## 22. Topic Outline and Schedule:

Week	Lecture	Topic	Teaching Methods*/platform	Evaluation Methods**	References
1	1.1	Introduction	Microsoft Team	Project 1  Project 2  Final Exam	The recommended reference below
	1.2				
2	2.1	Maintenance planning and organizational change			
	2.2				
3	3.1	Performance measurement and maintenance productivity			
	3.2				
4	4.1	Computerized maintenance management system			
	4.2				
5	5.1	Life cycle cost analysis			
	5.2				
6	6.1	Assignments			
	6.2				
7	7.1	Case studies			
	7.2				
8	8.1	Revision and Final exam			
	8.2				

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- Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
- Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz...etc

## 23 Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform
Course project 1	30%	Covers all topics	In due course	e-learning and Microsoft teams
Course project 2	30%			
Final exam	40%			

**24 Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):**

students should have:

1. a computer, internet connection, webcam, account on a specific software/platform
2. access to library (books and periodicals)

**25 Course Policies:**

*All the following points should comply with the university regulations:*

A- Attendance policies:

B- Absences from exams and submitting assignments on time:

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

F- Available university services that support achievement in the course:

**26 References:**

A- Required book(s), assigned reading and audio-visuals:

1. **Handbook of Maintenance Management and Engineering**, editors : Mohamed Ben-Daya, Salih O. Duffuaa Abdul Raouf, Jezdimir Knezevic, Daoud Ait-Kadi, Springer, latest edition

B- Recommended books, materials and media:

1. Research papers in maintenance
2. Research papers in quality in maintenance

**27 Additional information:**

Name of Course Coordinator: **Prof. Issam Jalham** Signature: *Issam* Date: 28 June 2020

Head of Curriculum Committee/Department: **Prof. Issam Jalham** Signature: *Issam*

Head of Department: Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----