

Course Description Form

1. Course Name:					
Industrial engineering and quality control					
2. Course Code:					
MPAC405					
3. Semester / Year:					
Yearly (2024–2025)					
4. Description Preparation Date:					
The beginning of the academic calendar for the year (2024–2025)					
5. Available Attendance Forms:					
Weekly / theoretical + practical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
(60 theoretical hours + 30 practical hours) 90 hours / 5 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Hussein salim Email: hussein.kt@uowa.edu.iq					
8. Course Objectives					
Course Objectives		<ol style="list-style-type: none"> 1. Identify the stages of industrial engineering development. 2. Studying the plant selection and plant location. 3. Studying the production planning using operation research. 4- studying the statistical methods used in quality control. 5- controlling production process by designing and using quality control charts. 			
9. Teaching and Learning Strategies					
Strategy		<ol style="list-style-type: none"> 1. Lectures (power point) 2. Use of weight board. 			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1st week	2 Theoretical	The student understands the subject	Introduction to industrial engineering.	Theoretical	quiz
2-3	2 Theoretical	The student understands the subject	Using operation research in	Theoretical	quiz

			production planning (linear programming methods).		
4-5	2 Theoretical	The student understands the subject	Using operation research in production planning (simplex programming method).	Theoretical	quiz
6	2 Theoretical	The student understands the subject	Selection of plant location	Theoretical	quiz
7-8	2 Theoretical	The student understands the subject	Plant layout	Theoretical	quiz
9-10	2 Theoretical	The student understands the subject	Motion and time study	Theoretical	quiz
11-12	2 Theoretical	The student understands the subject	Feasibility study	Theoretical	quiz
13-14	2 Theoretical	The student understands the subject	Maintenance and replacement	Theoretical	quiz
15-16	2 Theoretical	The student understands the subject	Resources management	Theoretical	quiz
17-18	2 Theoretical	The student understands the subject	Definition and introduction to quality control	Theoretical	quiz
19-20	2 Theoretical	The student understands the subject	Objectives and functions of quality control	Theoretical	quiz
21-22	2 Theoretical	The student understands the subject	Economics of quality control	Theoretical	quiz
23-24	2 Theoretical	The student understands the subject	Statistic principles	Theoretical	quiz
25-26	2 Theoretical	The student understands the subject	Quality control charts	Theoretical	quiz
27-28	2 Theoretical	The student understands the subject	Probability theory and using in QC	Theoretical	quiz
29	2 Theoretical	The student understands the subject	Probability distributions	Theoretical	quiz
30	2 Theoretical	The student understands the subject	Sampling programs and inspection by samples	Theoretical	Quiz
Course Evaluation					

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