

Course Description Form

1. Course Name:	
Industrial Engineering	
2. Course Code:	
CSE4301	
3. Semester / Year:	
2 nd Semester	
4. Description Preparation Date:	
16/2/2024	
5. Available Attendance Forms:	
Personal	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30/2	
7. Course administrator's name (mention all, if more than one name)	
Name: Ass. Prof. Dr. Huthaifa Al-Khazraji Email: 60141@uotechnology.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> Understanding how taxonomies of industrial engineering can be used Identify and implement effective solutions to real industrial problems by applying contemporary industrial engineering tools and cutting-edge technology in production, planning, management, economic, quality, control, safety, service. Implement and improve integrated systems that manage manpower, materials, machines, information, energy, and environment Search for alternative operations, evaluate the alternatives, and to be able to make a decision
9. Teaching and Learning Strategies	
Strategy	<ol style="list-style-type: none"> 1. Presentation of Lectures 2. Providing problems and its solutions 3. Discussing the solutions 4. The above points are accomplished through: presentations, home-works, and documented reports

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction	In class Presentation and reports	Discussing and evaluating reports Written exam
2	2		Marketing	In class Presentation and homework	Discussing and evaluating homework Written exam
3	2		Cost Volume Profit	In class Presentation	Discussing and evaluating homework Written exam
4	2		Plant Location and Layout	In class Presentation	Discussing and evaluating homework Written exam
5	2		Exam		
6	2		Production and Productivity	In class Presentation and reports	Discussing and evaluating reports Written exam
7	2		Work Study	In class Presentation and homework	Discussing and evaluating homework Written exam
8	2		Network Analysis	In class Presentation	Discussing and evaluating homework Written exam
9	2		Inventory Control	In class Presentation and homework	Discussing and evaluating homework Written exam
10	2		Exam		
11	2		Assembly Line Balancing	In class Presentation and reports	Discussing and evaluating reports Written exam
12	2		Scheduling	In class Presentation and homework	Discussing and evaluating homework Written exam
13	2		Quality Control	In class Presentation and homework	Discussing and evaluating homework Written exam
14	2		Maintenance, Replacement and Reliability	In class Presentation and homework	Discussing and evaluating homework Written exam
15	2		Workplace Health and Safety	In class Presentation	Discussing and evaluating homework Written exam

11. Course Evaluation	
20% Documented exam 5% Quizzes 5% Reports and Homework 70% Final Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	<ol style="list-style-type: none"> 1. Industrial Engineering and Management, Khanna (1999) 2. Operations Research an Introduction, Taha (2003) 3. Handbook of Industrial Engineering: Technology and Operations Management, Salvendy (2001) 4. Statistical Quality Control, Montgomery (2012) 5. Balancing and Sequencing of Assembly Lines, Scholl (1999) 6. Principles of Marketing, Philip, Veronica, John and Gary (2005)
Recommended books and references (scientific journals, reports...)	Scientific Journals <ol style="list-style-type: none"> 1. Journal of Computers & Industrial Engineering 2. European Journal of Industrial Engineering
Electronic References, Websites	Websites Industrial Engineering Knowledge Center – Blogger: http://nraoiekc.blogspot.com