	Co	urse De	scription	ı Form				
1. Course Name:								
Industrial engineering and quality control								
2. Course	Code:							
MPAC405								
3. Semest	er / Year:							
Fourth stage/y	rearly							
4. Descrip	tion Preparation Da	ate:						
23-9-2024								
5. Availab	le Attendance Forms	5:						
Weekly / theoret	ical							
6. Number	of Credit Hours (To	otal) / Nu	mber of U	nits (Total)				
60 hours								
7. Course	administrator's na	me (mei	ntion all, i	f more than o	one name)			
Name: I Email: I	Dr. Hussein salim Jussein kt@uowa ee	du ia						
Linan. i	iussem.ite uowa.et	uunq						
8. Course	Objectives						_	
Course Objective		1. Identit	fv the stages	of industrial en	gineering deve	lopment.		
		2. Studyi	ing the plant	selection and p	lant location.			
		3. Studyi 4- studvi	ing the prod	uction planning tical methods us	using operation and in quality co	n research. ontrol.		
4- studying the statistical methods used in quality control.5- controlling production process by designing and using quality control						⁷ cor	rol	
0 Teachin	a and Learning Stra	charts.						
Strategy		legies	1 Lec	tures (nower no	int)			
Strategy			2. Use of weight board.					
				-				
10. Course St	tructure		L					
Week	Hours			Required	Unit or	Learning	Εv	ılua
				Learning	subject	method	me	tho
				Outcomes	name			
		_						
			1 —					

Eviluati method

1 / 1		771 4 1 4	T (1 (TT1 (* 1	
l st week		The student	Introduction	Theoretical	quı
	2 Theoretical	understands the	to industrial		
2_3	2 Theoretical	The student	Using	Theoretical	aui
2-3	2 Theoretical	understands the	operation	Theoretical	qui
		subject	research in		
		subject	production		
			planning		
			(linear		
			programming		
			methods).		
4-5	2 Theoretical	The student	Using	Theoretical	qui
		understands the	operation		1
		subject	research in		
			production		
			planning		
			(simplex		
			programming		
			method).		
5	2 Theoretical	The student	Selection of	Theoretical	qui
		understands the	plant location		
		subject			
7-8	2 Theoretical	The student	Plant layout	Theoretical	qui
		understands the			
		subject			
9-10	2 Theoretical	The student	Motion and	Theoretical	qui
		understands the	time study		
		subject			
1-12	2 Theoretical	The student	Feasibility	Theoretical	qui
		understands the	study		
12.14		subject			<u> </u>
13-14	2 Theoretical	The student	Maintenance	Theoretical	qui
		understands the	and		
15 16		subject	replacement	TTI	
13-10	2 I neoretical	I he student	Kesources	Ineoretical	quı
		understands the	management		
7_18	2 Theoretical	The student	Definition and	Theoretical	<u></u> ;
1/-10		I ne student	introduction to	Theoretical	qui
		subject	muoduciion io		
9-20	2 Theoretical	The student	Objectives and	Theoretical	ani
		understands the	functions of	Theoretical	Yui
		subject	quality control		
21-22	2 Theoretical	The student	Economics of	Theoretical	ani
		understands the	quality control	incoretical	4 ⁴¹
		subject	quality control		
23-24	2 Theoretical	The student	Statistic	Theoretical	ani
		understands the	principles	incoretical	4 ⁴¹
		subject	Principies		
25-26	2 Theoretical	The student	Quality	Theoretical	aui
		understands the	control charts	or enour	-1**
		subject			
27-28	2 Theoretical	The student	Probability	Theoretical	aui
-		understands the	theory and		-11
		subject	using in OC		
.9	2 Theoretical	The student	Probability	Theoretical	qui
		understands the	distributions		
		subject			
30	2 Theoretical	The student	Sampling	Theoretical	Ou
-		understands the	programs and	or enour	~~
		subject	ro-uno una		
		Budjoor	1	1	·

			inspection by samples				
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							
Learning and	Introduction to industrial engineering						
Teaching							
Resources							
Required	Production planning and control						
textbooks							
(curricular							
books, if any)							
Main	Operation research						
references							
(sources)							
Recommended	https://highperformancehvac.com/industrail						
books and	engineering, operation research						
references	and production planning.						
(scientific							
journals,							
reports)							
Electronic References, Websites	https://highperformancehvac.com/control-circuits- for-hvac-systems/						
3							

11.				
12.				
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