السيد رئيس قسم هندسة تقنيات التبريد والتكييف

م/ وصف المقررات الدراسية

تحية طيبة....

نرفق لكم ربطاً وصف المقررات الدراسية للمواد الدراسية في القسم للتفضل بالمصادقة عليها.

مع فائق الاحترام والتقدير.....

السيد رئيس اللجنة العلمية المحترم
تدقيقه، لو سمحت .. مع التقدير
٢٠/٣/٢٠٢٤
رئيس القسم

م.م. ولاء ناصر عباس

مسؤول ضمان الجودة في الكلية

19/3/2024

السيد رئيس القسم المحترم .
السلام عليكم
تم مناقشة الاوراق في اللجنة العلمية
وحصل الاتفاق على مصادقة نموذج
وصف المقررات وتسليمها للجنة المواد .
مع التقدير

Course Description Form

1. Course Name:
Industrial engineering and quality control
2. Course Code:
MPAC405
3. Semester / Year:
Fourth stage/yearly
4. Description Preparation Date:
22−3−2024
5. Available Attendance Forms:
Weekly / theoretical
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours
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	1. Identify the st ages o industrial engin ering development. 2. Studying the lant s and plant locati n. 3. Studying the rodu planning using o erati research. 4- studying the tatisti methods used in quali 5- controlling pr oduct process by desig ning a quality control c harts.

9. Teaching and Learning Strategies	
Strategy	1. Lectures (power point) 2. Use of weight board.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	E m
1st week	2 Theoretical	The student understands the subject	Introduction to industrial engineering.	Theoretica	qu
2-3	2 Theoretical	The student understands the subject	Using operation research in production planning (linear programming methods).	Theoretica	qu
4-5	2 Theoretical	The student understands the subject	Using operation research in production planning (simplex programming method).	Theoretica	qu
6	2 Theoretical	The student understands the subject	Selection of plant location	Theoretica	qu
7-8	2 Theoretical	The student understands the subject	Plant layout	Theoretica	qu
9-10	2 Theoretical	The student understands the subject	Motion and time study	Theoretica	qu
11-12	2 Theoretical	The student understands the subject	Feasibility study	Theoretica	qu
13-14	2 Theoretical	The student understands the subject	Maintenance and replacement	Theoretica	qu
15-16	2 Theoretical	The student understands the subject	Resources management	Theoretica	qu
17-18	2 Theoretical	The student understands the subject	Definition and introduction to quality control	Theoretica	qu
19-20	2 Theoretical	The student understands the subject	0bjectives and functions of quality control	Theoretica	qu
21-22	2 Theoretical	The student understands the subject	Economics of quality control	Theoretica	qu
23-24	2 Theoretical	The student understands the subject	Statistic principles	Theoretica	qu
25-26	2 Theoretical	The student understands the subject	Quality control charts	Theoretica	qu

27-28	2 Theoretical	The student understands the subject	Probability theory and using in QC	Theoretica	qu
29	2 Theoretical	The student understands the subject	Probability distributions	Theoretica	qu
30	2 Theoretical	The student understands the subject	Sampling programs and inspection by samples	Theoretica	Q
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 Teaching Resources	Introduction to industrial engineering				
Required textbooks (curricular books, if any)	Production planning and control				
Main references (sources)	0peration research				
Recommended books and references (scientific journals, reports…)	https://highperformancehvac.com/industrail engineering, operation research and production planning.				

Electronic References, Websites	https://highperformancehvac.com/control-circuits-for-hvac-systems/				
11.					
12.					