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.....

م.م. ولاء ناصر عباس

مسؤول ضمان الجودة في الكلية

19/3/2024

Course Description Form

1. Course Name:

Machine drawing

2. Course Code:

WAR-20-05

3. Semester / Year:

second stage/yearly

4. Description Preparation Date:

21-3-2024

5. Available Attendance Forms:

Weekly / theoretical and practical

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hr theoretical+60 hr practical

7. Course administrator's name (mention all, if more than one name)

Name: Ali Hammoudi Alwazir
Email: ali.ham@uowa.edu.iq

8. Course Objectives

Course Objectives	

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1st week	1 Theoretical + 2 practical.	The student understands the subject	Symbols, expressions, general review	Theoretical + practical	Engineering drawing board
2nd week	1 Theoretical + 2 practical	The student understands the subject	Symbols, expressions, general review	Theoretical + practical	Engineering drawing board
3rd week	1 Theoretical + 2 practical	The student understands the subject	Screws, bolts, studs and nuts	Theoretical + practical	Engineering drawing board
4th week	1 Theoretical + 2 practical	The student understands the subject	Keys (type of keys)	Theoretical + practical	Engineering drawing board

5th week	1 Theoretical + 2 practical	The student understands the subject	Pulleys (flat pulley drive)	Theoretical + practical	Engineering drawing board
6th week	1 Theoretical + 2 practical	The student understands the subject	Pulleys (cone pulltes)	Theoretical + practical	Engineering drawing board
7th week	1 Theoretical + 2 practical	The student understands the subject	Gears(bevel gear, warm gear, spur gear)	Theoretical + practical	Engineering drawing board
8th week	1 Theoretical + 2 practical	The student understands the subject	Gears(bevel gear, warm gear, spur gear)	Theoretical + practical	Engineering drawing board
9th week	1 Theoretical + 2 practical	The student understands the subject	Fit and tolerance (introduction)	Theoretical + practical	Engineering drawing board
10th week	1 Theoretical + 2 practical	The student understands the subject	Fit and tolerance (application)	Theoretical + practical	Engineering drawing board
11th week	1 Theoretical + 2 practical	The student understands the subject	Surface finishing and part tables(symbol)	Theoretical + practical	Engineering drawing board
12th week	1 Theoretical + 2 practical	The student understands the subject	Surface finishing and part tables(example)	Theoretical + practical	Engineering drawing board
13th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms /draw jack	Theoretical + practical	Engineering drawing board
14th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms/stuffing box	Theoretical + practical	Engineering drawing board
15th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms/flange	Theoretical + practical	Engineering drawing board
16th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms/gland stuffing box	Theoretical + practical	Engineering drawing board
17th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced/crosshead mechanisms	Theoretical + practical	Engineering drawing board

18th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms/milling machine	Theoretical + practical	Engineering drawing board
19th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms/machine vice	Theoretical + practical	Engineering drawing board
20th week	1 Theoretical + 2 practical	The student understands the subject	Assembly drawing and working drawing for advanced mechanisms/knuckle joint	Theoretical + practical	Engineering drawing board
21st week	1 Theoretical + 2 practical	The student understands the subject	Welding symbols/definition	Theoretical + practical	Engineering drawing board
22nd week	1 Theoretical + 2 practical	The student understands the subject	Welding symbols/type of welded	Theoretical + practical	Engineering drawing board
23rd week	1 Theoretical + 2 practical	The student understands the subject	Welding symbols/ draw assemble	Theoretical + practical	Engineering drawing board
24th week	1 Theoretical + 2 practical	The student understands the subject	Pipes/ definition/symbol	Theoretical + practical	Engineering drawing board
25th week	1 Theoretical + 2 practical	The student understands the subject	Pipes/gland expansion pipe joint	Theoretical + practical	Engineering drawing board
26th week	1 Theoretical + 2 practical	The student understands the subject	Pipes/draw cast iron pipe joint	Theoretical + practical	Engineering drawing board
27th week	1 Theoretical + 2 practical	The student understands the subject	Basic principles in ACAD	Theoretical + practical	Computer drawing
28th week	1 Theoretical + 2 practical	The student understands the subject	First principles in dies design	Theoretical + practical	Engineering drawing board
29th week	1 Theoretical + 2 practical	The student understands the subject	First principles in dies design	Theoretical + practical	Engineering drawing board
30th week	1 Theoretical + 2 practical	The student understands the subject	First principles in dies design	Theoretical + practical	Engineering drawing board

11. 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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Mechanical drawing and Solidworks

Main references (sources)	Machine drawing by K. L. Narayana p. kannaiah venkata reddy
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	