

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
تدقيق، لوصف، ..
م. م. ولاء ناصر عباس
رئيس اللجنة



م.م. ولاء ناصر عباس

مسؤول ضمان الجودة في الكلية

19/3/2024

السيد رئيس القسم
السيد

تم مناقشة الامتحان
وصلى الانذار
وتنفيذ المقررات
مع الشكر

Course Description Form

1. Course Name:	
Computer Applications 3	
2. Course Code:	
MPAC404	
3. Semester / Year:	
Annual	
4. Description Preparation Date:	
2024/03/21	
5. Available Attendance Forms:	
<input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Number of Credit Hours (150) / Number of Units (7)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist. Lech. Hussein Ali Jaffar Email: hussein.a.j@gmail.com	
8. Course Objectives	
Course Objectives	AutoCAD 3d course teaches students to create basic 2D and 3D drawings using drawing and editing tools, organizes drawing objects on solids, basic dimensions, and prepares to plot. This course is designed for Mechanical Engineers.
9. Teaching and Learning Strategies	
Strategy	AutoCAD 3D certificate goal is to educate individuals on extra-advanced functions, the strategy, how to design and model items in the 3D design software program, enveloping surface areas, and solids in visualizing engineering designs.
10. Course Structure	
	Material Covered
Week 1	Introduction to AutoCAD -3D, workspace, visual style, 3d views, view ports, right hand rule, world coordinate and user coordinate systems and types of coordinate systems. 3D solids (box, wedge and cylinder).
Week 2	3D solids (cone and tours). 3D solids (sphere and pyramid).
Week 3	Examples to 3D solids. Basic solid editing (union, subtract and intersect) with examples.
Week 4	Fillet and chamfer with applied examples.

	3D operations (3d move and 3d rotate) with examples.
Week 5	3D operations (3d align and 3d mirror) with examples. 3D operations (3d array and slice) with examples.
Week 6	More applied examples. User coordinate system (origin, face and objects) with examples.
Week 7	User coordinate system (view, world ,x-y-z) with examples. User coordinate system (z-axis and 3 points) with examples.
Week 8	Advanced 3d commands (extrude and loft) with examples.
Week 9	Advanced 3d commands (revolve, sweep) with examples. Advanced 3d commands (presspull and section plane) with examples.
Week 10	Advanced solid editing/face (extrude, move,rotate and offset).
Week 11	Advanced solid editing/face (taper, delete, copy, color, material, undo and exit).
Week 12	Applied examples. Advanced solid editing/edge (copy and color).
Week 13	Advanced solid editing/body (imprint, separate, shell, clean and check).
Week 14	Surface (box, cone, dome and mesh). surface (pyramid and sphere)
Week 15	surface (torus and wedge) with examples.

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

Main references (sources)	Autocad user manual
Recommended books and references (scientific journals, reports...)	Introduction to AutoCAD 2022
Electronic References, Websites	https://help.autodesk.com/view/ACD/2022/ENU/

