



## نموذج وصف المقرر لمادة (الرسم الهندسي)

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنًا عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولا بد من الربط بينها وبين وصف البرنامج .

اسم الجامعة / الكلية	جامعة العين / كلية هندسة النفط
اسم المادة / رمز المقرر	الرياضيات – Engineering Drawing - GE106
المرحلة الدراسية	الأولى
اشكال الحضور المتاحة	المحاضرة – والمناقشة
نظام المادة	سنوي
عدد الساعات في الاسبوع	4
العام الدراسي لأعداد هذا الوصف	2021/2020

By the end of the year the student should be able to use the (AutoCAD) program with high skill and as a general language to express the user's engineering skill, and to establish the concept that the program is included in all engineering disciplines, and that it is a method that is highly efficient in expressing the operative to be delivered.

Week	Subject	Learning outcomes required	Method of learning	Method of Evaluate
1	Introduction in Engineering Drawing and Auto CAD	By the end of the students Subject should be able to: General concept to Engineering Drawing , start the program and recognizing the Program interface and ribbons and how to save the projects	Lecturing, discussion and H.W	Q&A
2	Status Bar and Drafting Settings	By the end of the students Subject should be able to: concept to Grid , Osnap and Ortho	Lecturing, discussion and H.W	Q&A
3-4	Drawing Orders	By the end of the students Subject should be able to: draw the point in many various way for draw in coordinate system .	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
4	Draw Line	By the end of the students Subject should be able to: Draw points of line in many way absolute and relative	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam

		coordinate and by angle		
5	Editing to the drawing	By the end of the students Subject should be able to: Edit Using Units Order , Line weight	Lecturing, discussion and H.W	Q&A
6	Polyline	By the end of the students Subject should be able to: Drawing Polyline with all properties	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
7	Polygon Drawing	By the end of the students Subject should be able to: Polygon Drawing with all properties	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
8	Rectangle Drawing	By the end of the students Subject should be able to: Rectangle Drawing with all properties	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
9-10	Draw Arc	By the end of the students Subject should be able to: Draw Arc by all way for draw it	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
11	Draw Circle	By the end of the students Subject should be able to: Draw Circle by find the center or three , two point and using radius , Diameter	Lecturing, discussion and H.W	Q&A
12	Draw Spline and Ellipse	By the end of the students Subject should be able to: Draw Spline and Ellipse	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
13	Draw points	By the end of the students Subject should be able to: Draw point and change the properties	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
14-15	Hatch and Gradient the Drawing	By the end of the students Subject should be able to: Hatch and Gradient the Drawing with setting the properties	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
16	Modification Orders 1	By the end of the students Subject should be able to: use the Erase and Copy	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
17-18	Modification Orders 2	By the end of the students Subject should be able to: use the Mirror and Offset	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
19	Modification Orders 3	By the end of the students Subject should be able to: use the Array	Lecturing, discussion and H.W	Q&A
20-21	Modification Orders 4	By the end of the students Subject should be able to: use	Lecturing, discussion	Q&A, H.W, quiz and

		the Move , Rotate and Scale	and H.W	exam
22	Modification Orders 5	By the end of the students Subject should be able to: use the Chamfer and Fillet	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
23-24	Modification Orders 5	By the end of the students Subject should be able to: use the Stretch , Trim , Extend , Break and Explode	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
25	Single Line Text	By the end of the students Subject should be able to: use the Single Line Text	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
26-27	Design Center	By the end of the students Subject should be able to: use Design Center to insert block in drawing	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
28	Tool Palettes Window	By the end of the students Subject should be able to: using Tool Palettes Window	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam
29-30	Properties of Drawing	By the end of the students Subject should be able to: setting the Properties of Drawing	Lecturing, discussion and H.W	Q&A, H.W, quiz and exam