

1. Course Name:	
Engineering Graphics	
2. Course Code:	
CIV12204	
3. Semester / Year:	
Second Semester – First Stage	
4. Description Preparation Date:	
9-12-2025	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
4	
7. Course administrator's name (mention all, if more than one name)	
M.M. Makarim Noori Ali , Eg. Mohammed Adil	
8. Course Objectives	
Course Objectives	1-To develop problem-solving skills and an understanding of the basics engineering drawings. 2- Develop the student's ability to deal with engineering drawing program 3- Enhancing the student's abilities to imagine geometric shapes and drawings and combine them with problems. 4- Develop students' abilities to imagine engineering problems and possibility of representing and simulating them in two- and three-dimensional drawing formats
9. Teaching and Learning Strategies	
Strategy	1-To have expertise in the software. 2- Learning Auto CAD to create precise and accurate designs infrastructure projects such as bridges, buildings, and roads, allowing them to plan and execute cost-effective solutions. 3- A vast array of design tools and features help civil engineers accurately and efficiently produce detailed drawings. With these tools, engineers can quickly identify flaws and problems. 4- Auto CAD provides civil engineers with a common platform to collaborate with other professionals such as architects, contractors, and project

	managers. This coordination is crucial for any large-scale civil engineering project.
	5- Learning 3D modeling capabilities makes it possible for civil engineers to create realistic representations of their designs. This allows them to visualize how the structures will look and function in real life, enabling them to make necessary modifications before construction begins.

1. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Learn engineering drawing skills and isometric methods with home work	Drawings many types of isometric from projection plans	Theoretical	Several way (exam, quiss home work
2	4	Learn engineering drawing skills and isometric methods with home work	Drawings many types of isometric from projection plans	Theoretical and Practical	Several way (exam, quiss home work
3	4	Learn student about civil work like foundation	Drawings civil engineering work foundation	Theoretical and Practical	Several way (exam, quiss home work
4	4	Learn student about civil work like foundation	Drawings civil engineering work foundation	Theoretical and Practical	Several way (exam, quiss home work
5	4	Learn student about civil work like Beams	Drawings civil engineering work Beams	Theoretical and Practical	Several way (exam, quiss home work
6	4	Learn student about civil work like Beams	Drawings civil engineering work Beams	Theoretical and Practical	Several way (exam, quiss home work
7	4	Learn student about civil work like stair case	Drawings civil engineering work Stair case	Theoretical and Practical	Several way (exam, quiss home work
8	4	Learn student about civil work like stair case	Drawings civil engineering work Stair case	Theoretical and Practical	Several way (exam, quiss home work
9	4	Learn student about Auto CAD program	Introduction for the program and the drawing short key us for drawings	Theoretical and Practical	Several way (exam, quiss home work

10	4	Class work for using short key Auto CAD	Drawings types of lines, rectangles, ellipse, circles by using short key Auto CAD 2 - D	Theoretical and Practical	Several way (exam, quiss home work
11	4	Class work for using short key Auto CAD	Drawings types of lines, rectangles, ellipse, circles by using short key Auto CAD 2-D	Theoretical and Practical	Several way (exam, quiss home work
12	4	Class work for using short key Auto CAD	Drawings types of lines, rectangles, ellipse, circles by using short key Auto CAD 2 - D	Theoretical and Practical	Several way (exam, quiss home work
13	4	Class work for using short key Auto CAD	Drawings types of lines, rectangles, ellipse, circles by using short key Auto CAD	Theoretical and Practical	Several way (exam, quiss home work
14	4	Class work for using short key Auto CAD	Drawings types of home with different types of dimension 2-D Work	Theoretical and Practical	Several way (exam, quiss home work
15	4		Final Exam		

2. Course Evaluation

3. Learning and Teaching Resources

Required textbooks (curricular books any)	Hand Book for Engineering Graphics
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

