Course Specification
(Bachelor)

Course Title: Computer Aided Drawing	
Course Code: 503121-1	
Program: Bachelor in Computer Science	
Department: Department of Computer Science	
College: College of Computers and Information Technology	
Institution: Taif University	
Version: V1.2024	
Last Revision Date: 01/02/2024	

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3)

2. Course type

A.	☐University	☒ College	☐ Department	☐Track	☐Others
B.	☒ Required		☐Elective		

3. Level/year at which this course is offered: (2/1)

4. Course general Description:

This course focuses on using AutoCAD program, introductory descriptive geometry, orthographic, deducing the missed view, and dimensioning.

5. Pre-requirements for this course (if any)**:**

None

6. Co-requisites for this course (if any)**:**

None

7. Course Main Objective(s):

Use AutoCAD Program in engineering drawing including geometrical constructions, projections, and isometric drawing and views.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		**30**

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Identify using AutoCAD Program in Engineering Drawing.	K1	Lecture Problem Solving	Written Exams Quizzes
1.2	Understand orthographic projection.	K1	Lecture Problem Solving	Written Exams Quizzes
1.3				
1.4				
...				
2.0	**Skills**			
2.1	Do geometrical constructions.	S1	Lecture Problem Solving	Written Exams Quizzes
2.2	Draw an isometric.	S1	Lecture Problem Solving	Written Exams Quizzes
2.3	Deduce views of an isometric.	S1	Lecture Problem Solving	Written Exams Quizzes

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
2.4	Draw an isometric from given views.	S1	Lecture Problem Solving	Written Exams Quizzes
2.5	Deduce the missing view from given two views and draw an isometric	S1	Lecture Problem Solving	Written Exams Quizzes
2.6				
...				
3.0	Values, autonomy, and responsibility			
3.1				
3.2				
3.3				
3.4				
...				

C. Course Content

No	List of Topics	Contact Hours
1.	AutoCAD program	3
2.	Geometrical constructions	6
3.	Theory of orthographic projection.	3
4.	Identify views of an isometrics	3
5.	Deduce views of an isometrics	6
6.	Drawing an isometric from their given views	6
7.	Deducing the missing view	3

Total		**30**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	continues	30%

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
2.	Midterm Exam	8	20%
3.	Final Exam	16	50%
4.			
5.			
6.			
...			

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Bertoline, G,R, Wiebe, E.N., Miller,C.L. and Nerman, L.O."Fundamentals of Graphics communication", Irwin,1996.
Supportive References	John R. Walker, Exploring Drafting, The Goodheart Publishers.
Electronic Materials	NON
Other Learning Materials	NON

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Traditional Classrooms
Technology equipment (projector, smart board, software)	White Board. Datashow.
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect (Surveys)
Effectiveness of Students assessment	Students	Indirect (Surveys)
Quality of learning resources	Students	Indirect (Surveys)
The extent to which CLOs have been achieved	Faculty	Direct (Course Report)
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	CS COUNCIL
REFERENCE NO.	MEETING #11
DATE	07/03/2024