



Course Specifications

Course Title:	Computer Aided Drawing
Course Code:	503121-1
Program:	Bachelor in Computer Engineering
Department:	Department of Computer Engineering
College:	College of Computers and Information Technology
Institution:	Taif University

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A. Course Identification

1. Credit hours: 1			
2. Course type			
a.	University <input type="checkbox"/>	College <input checked="" type="checkbox"/>	Department <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>	Others <input type="checkbox"/>
3. Level/year at which this course is offered: 3/1			
4. Pre-requisites for this course (if any): NON			
5. Co-requisites for this course (if any): NON			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2	100%
2	Blended	0	0
3	E-learning	0	0
4	Distance learning	0	0
5	Other	0	0

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	0
2	Laboratory/Studio	30
3	Tutorial	0
4	Others (specify)	0
	Total	30

B. Course Objectives and Learning Outcomes

1. Course Description		
This course focuses on using AutoCAD program, introductory descriptive geometry, orthographic, deducing the missed view, and dimensioning		
2. Course Main Objective		
Use AutoCAD Program in engineering drawing including geometrical constructions, projections, and isometric drawing and views.		
3. Course Learning Outcomes		
	CLOs	Aligned PLOs
1	Knowledge and Understanding	
1.1	Identify using AutoCAD Program in Engineering Drawing.	K1
1.2	Understand orthographic projection.	K1
2	Skills :	

CLOs		Aligned PLOs
2.1	Do geometrical constructions.	S1
2.2	Draw an isometric.	S1
2.3	Deduce views of an isometric.	S1
2.4	Draw an isometric from given views.	S1
2.5	Deduce the missing view from given two views and draw an isometric	S1
3	Values:	

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. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Identify using AutoCAD Program in Engineering Drawing.	Lecture Problem Solving	Written Exams Quizzes
1.2	Understand orthographic projection.	Lecture Problem Solving	Written Exams Quizzes
2.0	Skills		
2.1	Do geometrical constructions.	Lecture Problem Solving	Written Exams Quizzes
2.2	Draw an isometric.	Lecture Problem Solving	Written Exams Quizzes
2.3	Deduce views of an isometric.	Lecture Problem Solving	Written Exams Quizzes
2.4	Draw an isometric from given views.	Lecture Problem Solving	Written Exams Quizzes
2.5	Deduce the missing view from given two views and draw an isometric	Lecture Problem Solving	Written Exams Quizzes

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.0	Values		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes	continues	30%
2	Midterm Exam	8	20%
3	Final Exam	16	50%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Academic advising and counseling of students is an important component of teaching; student academic advising is a mandatory requirement of College of Computers and Information Technology (CCIT). Appropriate student advising provides support needed for the student during times of difficulty. In addition, it helps the student to build a close relationship with his/her advisor and to provide student motivation and involvement with the institution.

In addition, since faculty are usually the first to recognize that a student is having difficulty, faculty members play a key role in developing solutions for the students or referring them to appropriate services. Faculty members also participate in the formal student-mentoring program.

Additional counseling is provided by course directors, who provide students with academic reinforcement and assistance and refer “at risk” students to the Vice Dean for Academic Affairs and the Vice Dean for female section.

F. Learning Resources and Facilities

1. Learning Resources

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

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Traditional Classrooms
Technology Resources (AV, data show, Smart Board, software, etc.)	White Board, datashow
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	NON

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of Teaching	Students	Students surveys and Students course evaluation
Improvement of Teaching	Course Coordinator	deficiencies based on the student Evaluation, faculty input, course file, and program assessment
Verifying Standards of Student Achievement	Curriculum Committee	<ul style="list-style-type: none"> Review CAF (Course assessment file) Alumni surveys. Periodic exchange and remarking of tests or a sample of assignments with staff at another

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

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

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	