المركز الوطني للتقويم والاعتماد الاكاديمي
National Center for Academic Accreditation and Evaluation

ATTACHMENT 5.

T6. COURSE SPECIFICATIONS (CS)

هيئة تقويم التعليم
Education Evaluation Commission

Course Specifications

Institution: Al Yamamah University	Date: 14-11-2018
College/Department: College of Engineering and Architecture/ Architecture	

A. Course Identification and General Information

1. Course title and code: ARC 202 Drawing 3 Digital Media 2D
2. Credit hours: 2
3. Program(s) in which the course is offered. Architecture
4. Name of faculty member responsible for the course. Dr. Majdi Alkhresheh
5. Level/year at which this course is offered: Second Year
6. Pre-requisites for this course (if any): ARC 112
7. Co-requisites for this course (if any): N/A
8. Location if not on main campus:
9. Mode of Instruction (mark all that apply):

a. traditional classroom	√	What percentage?	100%
b. blended (traditional and online)		What percentage?	
c. e-learning		What percentage?	
d. correspondence		What percentage?	
f. other		What percentage?	

Comments:

B Objectives

1. What is the main purpose for this course?
To produce accurate 2D and 3D representation of architectural products and to effectively communicate 2D compositions and products using digital media (i.e., create a set of orthographic drawings such as plans, elevations, and sections). In addition, the course is aimed at learning and applying techniques that enhances productivity, accuracy, and readability of the drawings.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web-based reference material, changes in content as a result of new research in the field
- Full reliance on LMS (online learning manager) to exchange information between instructor and students
- Introduce CAD ability to aid in structural analysis and descriptive geometry in addition to the traditional drafting benefits.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

The course introduces 2D and 3D digital drafting concepts and techniques using AutoCAD (the selected software). Knowledge of the software and its application are delivered through lectures and hands-on tutorials. CAD will be used as drafting, problem-solving, and design aiding tool.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
Course introductions, class conduct policies and introduction to CAD software package	1	5
File maintenance, object snap, drawing Features, drawing maneuvering and control	1	5
Basic 2D Commands (Tools)	1.5	7.5
Editing (move, copy, mirror, etc..)	1.5	7.5
Hatching, Text, and Tables	0.5	2.5
Printing and title blocks	0.5	2.5
Dimensions and Annotations	0.5	2.5
Working in three dimensions	1	5
UCS, and basic modeling	1	5
Boolean Operations	1	5
Modifying Solid Models	1.5	7.5
Section, and converting 3D to 2D	1	5
Visualization, Views, and Project Documentation	1	5
Final Project	2	10

2. Course components (total contact hours and credits per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other:	Total
Contact Hours	Planed	1	4				5
	Actual	1	4				5
Credit	Planed	N/A					2
	Actual	N/A					2

3. Additional private study/learning hours expected for students per week. X

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	Recognize basic techniques of computerized drafting pertaining to two dimensional representations.	Lectures, Practicing (Assignments 1 through 5)	- Assignment 1 through 5 submissions, - Quizzes 1, 2, and 3 -
1.2	Recognize basic techniques of computerized modeling pertaining to three dimensional representations.	Lectures, Practicing (Assignment 6 and 7)	-Assignments 6 and 7 submissions, - Quiz 4, and 5
2.0	**Cognitive Skills**		
2.1	Construct two-dimensional drawings of architectural designs.	Working on Course Project	-Course project Submissions (1,2,3,4, &5) - Midterm exam. - Final exam (part 1)
2.2	Construct three-dimensional models of architectural designs.	Lectures, Working on Course project	- Course project submissions 6,7 - Final exam (Part 2)
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
4.1	Develop a complete project professionally.	Working on Course Project	Final project submission Final exam (Part 3)

5.0	**Psychomotor**		
5.1			

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
	Assignments 1 through 5: Practicing the given commands and protocols 2D	1 -6	7%
	Assignments 7 through 8: Practicing the given commands and protocols 3D	7 & 8	3%
	Quizzes1,2 and 3: evaluating skills to execute previous week's commands 2D	2,3, and 4	7%
	Quizzes 4 & 5: evaluating skills to execute previous week's commands and protocols 3D	10 and 11	3%
	Midterm exam	9	20%
	Final Project	10- 15	20%
	Final exam	16	40%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Two periods of office hours; of two hours each. Second-year students would usually seek advice and consultations on one of two periods amounting to 2 hours/week

E Learning Resources

1. List Required Textbooks
   - Omura G. & Benton B., 2016, Mastering AutoCAD 2017 and AutoCAD LT 2017, John Wiley & Sons, Inc.

2. List Essential References Materials (Journals, Reports, etc.)
   - Tutorial Books (2017) AutoCAD 2018 For Architectural Design, Tutorial Books.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access, etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
Computer Lab: 20 students

2. Technology resources (AV, data show, Smart Board, software, etc.)
-Data show
-Required software packages installed (example: CAD and Photoshop)

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching - Questionnaires on course evaluations held online - Students' feedback and off-class chats - Final project product
2. Other Strategies for Evaluation of Teaching by the Instructor or by the Department - Peer evaluations and cross evaluation with another colleague teaching the same course. -Moderation of final exam by a colleague
3. Processes for Improvement of Teaching - Assigning students to draw and model their own buildings from previous manually-handled designs.
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution) - Cross examining with results from previous students in other universities and matching grades curve and distribution with certain shift due to different outcomes of high schools. -cross verifying with peer instructor female section
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement. - Maintaining timely understanding of the industry needs and their preference for software packages and modify the software choice accordingly. - Coordinate with the needs of following design studios and their selected method of presentation, and introducing conducive new software package. -Coordinating the course to integrate the sued software with consequent ones like Revit and 3DS max.

Name of Course Instructor: Dr. Majdi Alkhresheh
Signature: _____ Date Specification Completed: 14-11-2018

Program Coordinator: Dr. Saqer Sqour

Signature: _____ Date Received: _____