



**DEPARTMENT OF ARCHITECTURE ENGINEERING  
ARCHITECTURE ENGINEERING PROGRAM, BSC.**

**Course Syllabus**

**1. Course number and name**

AR 205 Computer in Architecture 2

**2. Credits and contact hours**

(2+2) 3 credit hours, 4 contact hours

**3. Course type**

Blended Learning Course (1+1)

**4. Instructor's or course coordinator's name**

Arch. Ala Gammoh ( Coordinator)

Arch. Amani Sawalha

**5. Textbook information**

1. Autodesk Revit 2018 BIM management: template and family creation, by, ASCENT, Center for Technical Knowledge, 2017
2. Deutsch, Randy, BIM and integrated design: strategies for architectural practice, John Wiley & Son, 2011
3. Lévy, François, BIM in small - scale sustainable design, Wiley, 2011.

**a. Other supplemental materials**

Instructor's notes

**6. Specific course information**

**a. Catalog description**

Introduction to (BIM) tool. Enable the students to prepare a whole 2D design document. Enable the students to build 3D models for the projects. Enable the students to render their projects using Autodesk 360 tool.

Introduces the students to how to prepare the quantities schedules, architectural details and title blocks.

**b. Prerequisites or co-requisites**

Prerequisite: AR204 Computer in Architecture 1 ( 806204)

**c. The course is:**

Required in the Architecture program.



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**7. Specific goals for the course**

**A. Course outcomes:**

After completion of the course, students are expected to be able to:

- A1. Ability to use appropriate presentation techniques such as manual drawings and digital technological methods to reach the proper form for each phase in the design process.
- A2. Ability to produce initial and comprehensive working plans.

**8. Learning Outcomes and their Alignment with Program Educational Objective (PEO's), Methods of Delivery, and Assessment Methods:**

Learning Outcomes	Program PEOs	Method of Delivery	Assessment Method
<b>Course Outcomes</b>			
A1. Ability to use appropriate presentation techniques such as manual drawings and digital technological methods to reach the proper form for each phase in the design process.	ARC-1.1.4.1	Lectures + Online Lecture/ synchronous active learning + Asynchronous active learning	Home Works, Mid & Final Exams
A2. Ability to produce initial and comprehensive working plans.	ARC-1.1.4.2	Lectures + Online Lecture/ synchronous active learning + Asynchronous active learning	Home Works, Mid & Final Exams



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**9. Weekly Teaching Plan**

<b>Week No</b>	<b>Lecture</b>	<b>Topic</b>	<b>Method of Delivery</b>
1		Course Introduction	Lecture
		Introduction to BIM & Revit. Revit Interface, Families, Types, units, levels & loading Libraries	Lecture
2		Families, Types, units, levels & loading Libraries	Lecture
		Families, Types, units, levels & loading Libraries	Online Lecture/ synchronous active learning
3		Walls, Curtain Walls & Mullions. Doors, Windows, Roofs & Floors	Online Lecture/ synchronous active learning
		Walls, Curtain Walls & Mullions. Doors, Windows, Roofs & Floors	Lecture
4		Walls, Curtain Walls & Mullions. Doors, Windows, Roofs & Floors	Asynchronous active learning
		Walls, Curtain Walls & Mullions. Doors, Windows, Roofs & Floors	Lecture
5		Stairs, Ramps, Railing & Shafts	Asynchronous active learning
		Stairs, Ramps, Railing & Shafts	Lecture
6		Wall Sweep, Wall Reveal & editing Wall Profile. Tag Spaces, Areas & Elements	Asynchronous active learning
		Wall Sweep, Wall Reveal & editing Wall Profile. Tag Spaces, Areas & Elements	Lecture
7		Wall Sweep, Wall Reveal & editing Wall Profile. Tag Spaces, Areas & Elements	Asynchronous active learning
		Wall Sweep, Wall Reveal & editing Wall Profile. Tag Spaces, Areas & Elements	Lecture
8		Site Planning & Components. Dimensions & Structural Grids	Online Lecture/ synchronous active learning
		Mid Exam	Lecture



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9		Site Planning & Components. Dimensions & Structural Grids	Online Lecture/ synchronous active learning
		Section view, Material & Rendering	Lecture
10		Section view, Material & Rendering	Asynchronous active learning
		Section view, Material & Rendering	Lecture
11		Section view, Material & Rendering	Online Lecture/ synchronous active learning
		Conceptual Massing	Lecture
12		Conceptual Massing	Asynchronous active learning
		Conceptual Massing	Lecture
13		Conceptual Massing	Asynchronous active learning
		Conceptual Massing	Lecture
14		Title Sheet & schedules	Online Lecture/ synchronous active learning
		Final Exam	Lecture

**10. Grade Distribution:**

Assessment	Grade	Week No.
- Midterm Exam	30%	8 <sup>th</sup> Week
-Home Works & Exercises	30%	1-14 <sup>th</sup> Week
- Final Examination	40%	14 <sup>th</sup> Week

Note: Make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.



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