Department of Architectural Engineering

College of Engineering

University of Cihan - Sulaymaniyah

Subject: Computer Application V (REVIT)

Course Book – Stage 4 – Semester 2

Lecturer's name:

Mohammed Fadhil Hama

Academic Year: 2023-2024

Course Book

1. Course name	Computer Applications – Revit
2. Lecturer	Mohammed Fadhil Hama
3. Department/ College	Architectural/Engineering
4. Contact	
5. Time (in hours) per week	Practical: (2) hours
6. Office hours	*To be confirmed*
7. Course code	
8. Teacher's academic profile	- BSc. in Civil Engineering from The University of Bahrain, Bahrain, 2012. - MSc in Structural Engineering with Materials, United Kingdom, 2013. - PhD in Civil Engineering from The University of Nottingham, United Kingdom, expected to finish by end of 2023.
9. Keywords	Revit Architecture, BIM

10. Course overview:

In this course, students will learn to model buildings using the building information modelling software, Revit Architecture. They will learn to navigate the user interface, model architectural elements like walls, windows, doors, roofs, floors, structure, curtain wall systems, stairs and etc. They will annotate and dimension drawings, generate sections, details, and schedules.

This course teaches students the concepts of Building Information Modelling and introduce the tools for parametric building design and documentation using Revit Architecture.

11. Course objective:
With the AutoCAD Revit software, students should be able to:
1. Master basic tools and commands.
2. Create 2D and 3D Architectural Models.
3. Be proficient in Building Information Modelling (BIM).
4. Have knowledge in collaborative design and documentation (schedules, sections, and details).
5. Project Presentations and Visualizations.

12. Student's obligation:
Attending the classes. Completion of all practical tests, exams, and the class work given to them.

13. Forms of teaching:
The teaching method will be a mix of both theoretical and practical lectures which focusses on how to use Revit Architecture 2024 CAD software. All the important notes will be provided for students by the lecturer. The lectures will be held in the computer lab, where students will use computers to apply what they have learned during the lecture..

14. Assessment scheme:

Class Work   20%
Midterm Exam   30%
Final Exam   50%

15. Course Reading List and References:
- Getting Started with Revit Architecture, Autodesk Official Press
- Revit Architecture fundamentals, SDC publication, Autodesk
- Mastering Autodesk Revit Architecture 2016: Autodesk Official Press 1st Edition.
- Autodesk Revit Architecture 2016 Essentials: Autodesk Official Press 1st Edition.
- Autodesk Revit Architecture 2016 No Experience Required: Autodesk Official Press.
- https://www.autodesk.com/products/revit-family/architecture
- https://youtu.be/LV1cVAJ-BlE?feature=shared
- https://www.youtube.com/watch?v=Di-pSpNYHO0
- https://www.youtube.com/watch?v=IGPzAKxtILA
- https://www.youtube.com/watch?v=Dq0Swqrg8Ic&list= PL8evaQZnDGAcoihnQnYTW6pfFdGjxOigC&index=2

16. The Topics:

Week No.	Topic
1	Sheets, Title blocks & exporting
2	How to Organise Sheets / Project Browser
3	Grid Lines
4	Rooms, Tags & Project Parameters
5	Door and Window Tags
6	Keynotes
7	Legends
Midterm exam starts	
8	Schedules
9	Door and window schedules
10	Internal elevations
11	Detail plan & 3D axonometric sections
12	Graphically stylising your drawings
13	Smart detailing
14	
Final exam starts	

17. Examinations:

The students should expect to design and modify 2D and 3D projects with working drawings.

Main Lecturer
Mohammed Fadhil Hama

Head of The Department
Mrs. Tara Azad Rauof