

Ministry of Higher Education and Scientific research



Department of Architecture

College of Engineering

University of Salahaddin

Subject: Working Drawing

Course Book – (Year 3)

Lecturer's name: MSc. Vian Sabr , MSc. Saya

Jamal and H.MSc.Carol Kamil

Academic Year: 2023/2024

Course Book

1. Course name	Working Drawing
2. Lecturer in charge	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil
3. Department/ College	Architectural Dept. / Engineering College
4. Contact	e-mail: vian.qadir@su.edu.krd Tel: 07504896876
5. Time (in hours) per week	Theory: 1 Practical: 3
6. Office hours	Tuesday 9:00 -13:00 Wednesday 9:00 -13:00
7. Course code	
8. Teacher's academic profile	<p>Vian Sabr Qadir is an academic, researcher; she lives in Erbil, Kurdistan and is working as a lecturer in the Department of Architecture at Salahaddin University- Erbil. She accepted in architectural department in 2003 whom graduated in 2008 at the first ranking . She started to work as muuid in 2009 till 2011, then later she had started to study master in Sulaimanyia University in 2011 and completed Master of Science degree with a research entitled "The Influence of Society's Cultural Aspects on Mosques' Architectural Symbolism". She has published research papers in local journals and participated in local international conference.</p> <p>Currently she teaches:</p> <p>1.Architecture Design 5- 3rd Year</p> <p>2.Architecture Design 6- 3rd Year</p> <p>3. Working Drawing- 3rd Year</p> <p>4.Islamic Architecture - 4th Year</p>
9. Keywords	Concrete structure, Building details
10. Course overview:	<p>This course focuses on drawing sheets for the type of concrete structural building. The students would be able to illustrate their design in the best way as they would have all the details which are necessary in representing their design drawings which would be used during executing the projects.</p> <p>The lectures concentrate on the details for each part in the building in order to strength the students' imagination as they would be able to design in a more appropriate way.</p>

11. Course objective:

Design is the basic requirement in architectural department, thus, students should learn how to design various types of buildings. On the other hand they should be qualified in order to illustrate their design through drawing sheets which would be used in the site for executing the project.

The students would be able to supervise over the project as they should learn how to connect between various fields like mechanical, electrical, sanitary drawings and etc.

They would also learn how to design the projects which could be executed in the site not just which is present in their imagination as an impossible thing to be realized.

12. Student's obligation

Students should be present in the lectures as far as possible; otherwise they would be failed in the course if their attendance doesn't exceed the ratios which have been put for them in the regulations.

The students should apply all the theoretical lectures in their projects which are given to them. Thus, they should draw the requirements after each lecture as homework and sometimes they would draw in the studio which would be considered as a quiz or studio work.

13. Forms of teaching

- 1- Power point presentations.
- 2- White board drawings and analysis.
- 3- Classroom discussions with lecturer and students themselves.
- 4- Individual sketches and corrections.
- 5- Visiting some similar projects in the region.
- 6- Monthly classroom examination

14. Assessment scheme

The following grade system is used for the evaluation of the module exam:

The module exam is based on the summation of two categories of evaluations:

First: (70%) of the mark is based on the academic semester effort which includes

- Midterm Exam. - 10 %
- Weekly Presentation - 20 %
- First Presentation - 10 %
- Final Presentation - 30 %

Second: (30%) of the mark is based on final examination that is comprehensive for the whole of the study materials reviewed during the academic semester.

15. Student learning outcome:

- The students would understand the requirements of site drawings.
- They would have comprehensive abilities to analyse and make strategy for modular system and dimensions.
- They will have better imagination about the building structure and details.
- The students would understand MEP systems requirements for a building.
- They shall have comprehensive abilities to make final working drawing sheets.
- The have better imaginations about the steel structure building

16. Course Reading List and References:

- TIME SAVER STANDARD FOR BUILDING CONSTRUCTION.
- ARCHITECTURAL WORKING DRAWINGS.

<p>▪ GRAPHIC STANDARD. CONSTRUCTION TECHNOLOGY BOOK</p>	
17. The Topics:	Lecturer's name
Introduction and Registration	<p>Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (1 hrs) 3/9/2023</p>
Explaining the program of the project The steps of designing a healthcare clinic from foundation to the finishing materials	<p>Assis. L. Vian Sabr (1 hrs) 10/9/2023</p>
Foundation Types of foundation Choosing the suitable foundation according to the project	<p>Assis. L. Vian Sabr (1 hrs) 17/9/2023</p>
Slab design Different types of slab structure Choosing three different types of slab for each group of students	<p>Assis. L.Saya Jamal (1 hrs) 24/9/2023</p>
The skeletal system of the building Structure of the building	<p>MSc.Carol kamil (1 hrs) 1/10/2023</p>
Exterior wall finishings Different types of materials used in the elevations and explaining the technique of installation of each of them (eg: porcelain and etc)	<p>Assis. L. Vian Sabr (1 hrs) 8/10/2023</p>
Interior wall claddings Different types of materials used in the interior wall claddings and explaining the technique of installation of each of them (eg: gypsumboard and etc)	<p>Assis. L.Saya Jamal (1 hrs) 15/10/2023</p>
Floor finishings Different types of materials used in the floor finishings and explaining the technique of installation of each of them	<p>MSc.Carol kamil (1 hrs) 22/10/2023</p>
Ceiling and designing suspended ceilings Different types of materials used in the ceiling finishings and explaining the technique of installation of each of them	<p>Assis. L. Vian Sabr (1 hrs) 29/10/2023</p>
Mid-Term Exam	<p>Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 5/11/2023</p>

Door Designs Explaining how to draw the plans of door, details and tables	MSc.Carol kamil (1 hrs) 12/11/2023
Window Designs Explaining how to draw the plans of window, details and tables	Assis. L. Vian Sabr (1 hrs) 19/11/2023
Space frame Explaining the design and installation of space frame The spans that used space frame	Assis. L. Vian Sabr (1 hrs) 26/11/2023
Final Submission of the Healthcare clinic project	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 3/12/2023
Final Exam	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 10/12/2023
18. Practical Topics	
Introduction and Registration	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 3/9/2023
Explaining the program of the project The steps of designing a healthcare clinic from foundation to the finishing materials Showing the sets of drawing	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 10/9/2023
Foundation Drawing the foundation plan in the class to their project	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 17/9/2023
Slab design Drawing the slab in the class to their project Giving critic on foundation plans	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 24/9/2023
The skeletal system of the building Drawing the Drawing the slab in the class to their project Giving critic on slab plans in the class to their project	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil

	(3 hrs) 1/10/2023
Exterior wall finishings Drawing the Exterior wall finishings in the class to their project Giving critic on skeletal system of the building plans in the class to their project	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 8/10/2023
Interior wall claddings Drawing the interior wall finishings in the class to their project Giving critic on Exterior wall finishing plans in the class	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 15/10/2023
Floor finishings Drawing Floor finishings in the class to their project Giving critic on Interior wall claddings plans in the class	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 22/10/2023
First Submission of the project	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 29/10/2023
Mid-Term Exam	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 5/11/2023
Drawing Ceiling and designing suspended ceilings Giving critic on plans of door, details and tables	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 12/11/2023
Window Designs Draw the plans of window, details and tables Giving critic on Interior wall claddings plans and door plans in the class	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 19/11/2023
Space frame Draw the plans of space frame and details	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 26/11/2023
Final Submission of the Healthcare clinic project	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil

	(3 hrs) 3/12/2023
Final Exam	Assis. L. Vian Sabr Assis. L.Saya Jamal MSc.Carol kamil (3 hrs) 10/12/2023

19. Examinations:

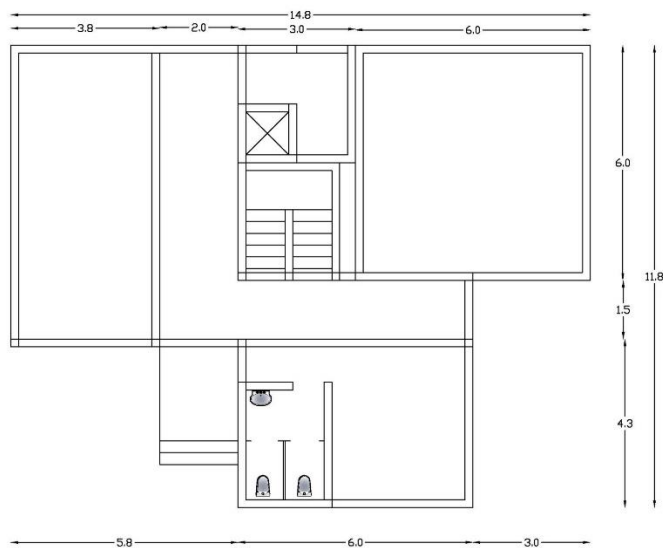
1. Compositional

What are the types of foundations?

Which one is the most economical one? Why?

1. The plan has front desk with waiting area, two doctors room with their exami within it and the core.
2. So rearrange it and put the center lines, dimensions and doors, windows with identifying signs on them.
3. Redesign the core and rest area (the height between the floors is 4.2m riser =0
4. Draw the foundation plan for it.

Draw the details and tables of door and window



20. Extra notes:

Theoretical lecture of working drawing supports the practical part in order students learn how to draw the set step by step.

21. Peer review

پیداچوونہوی ھاوہل

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

ئەم كۆرسىبوو كە دەبىت لە لايەن ھاوھلئىكى ئەكادىمىيە سەپىر بىكرىت و ناوھرۆكى بابەتەكانى كۆرسەكە پەسەند بىكات و جەند ووشەيەك بنووسىت لەسەر شىاوى ناوھرۆكى كۆرسەكە و واژووى لەسەر بىكات. ھاوھل ئەو كەسەيە كە زانىارى ھەبىت لەسەر كۆرسەكە و دەبىت پلەي زانستى لە مامۇستا كەمتر نەبىت.