



Philadelphia University
Faculty of Engineering and Technology
Department of Architecture
First. semester, 2022/2023

660582 Engineering Project (2)		Prerequisites: Engineering Project (1) 660581
Credit hours Contact hours:	Class schedule:	Mon.-Wed. 18:00-20:00
Instructors: Dr. Asma' Niazzy Taher (the coordinator)	Office Hours:	Departments' studios

Grading system

- One Project 100%
- Copying of assignments or other means of duplicating materials (plagiarism) that is turned for grading is absolutely **forbidden** and will result in a zero grade, in addition to a disciplinary council action.
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Course description:

The student should submit fully developed design of the best proposed concept from the 3 proposals developed in Design Project 1. Complete comprehensive design including detailed analytical data, solutions and fully developed presentations which influence the output of the project (building laws and regulations, code of ethics and defining the professional conduct, environmental impact and the stakeholder roles in architecture

Course objectives :

The main objectives of this course are:

No.	Course objectives	SPC
1	Training the student to think logically in dealing with design problems through several stages as an important part of the design process to acquire knowledge and experience to perform the design and implementation of various projects in the future.	C2

2	Gaining the knowledge and understanding of project complexities and integrating all involved in the process: client, contractor, architect, users and local community through the process of problem identification and finding the solution.	C3
3	Understand the ethical aspects and professional conduct in decision making through the stages of the project in dealing with all disciplines and in all stages of design.	C3
4	Focusing on the architect's responsibility towards preserving the cultural identity local culture and heritage with its symbolism and social values throughout all the aspects of the project. In addition to working within site characteristics, urban patterns and historic fabric.	C3
5	The student learns through the project applying the right structural systems as well as taking in consideration the environmental solutions and their impacts depending on the geological location.	C2

C.2 Integrated Evaluations and Decision-Making Design Process: *Ability* to demonstrate the skills associated with making integrated decisions across multiple systems and variables in the completion of a design project. This demonstration includes problem identification, setting evaluative criteria, analyzing solutions, and predicting the effectiveness of implementation.

C.3 Integrative Design: *Ability* to make design decisions within a complex architectural project while demonstrating broad integration and consideration of environmental stewardship, technical documentation, accessibility, site conditions, life safety, environmental systems, structural systems, and building envelope systems and assemblies

Assessment and Grading Policies has been modified according to the e-learning criteria

Allocation of Marks	
Assessment Instruments	Mark
(Phase One) Midterm Exam	30
(Phase Two) Home works	30
(Phase three) Final exam	40
Total	100

Semester Task (Phase One)	Grade	Due Date (week)
Homework no.1 (concept)	10	1-2
Homework no.2 Concept and plan development	10	3-4
Homework no.3 Architectural plans- primary submission	10	5-6

(An external jury)		
Total	30	

Semester Task (Phase Two)	Grade	Due Date
Homework no.4 2 ELV.	5	7-8
Homework no.5 2 SEC.	10	9-10
P.F	15	11-13
Total	30	

Semester Task (Phase three)	Grade	Due Date
Final Exam (An external jury)	40	15