



Course Syllabus

Year : 2016/ 2017

Fall Semester

Course No.	Course Name	Prerequisite	Credit Hours
0902424	Architectural Design (6)	0942423	4
Brief Description	Architectural Design (6) course introduces students to the design process in solving ill-defined problems using the function-based solving approach (buildings with problems of complex function, structural systems, acoustics, heating and ventilation). Students are expected to apply knowledge acquired in related subjects - building construction and environmental studies - to the design process. In this course students will design a multi-functional, multi-story buildings (Two High rise buildings/ Twin towers) in a specific cultural context. The project could include the redeveloping of urban or historic areas into the whole master plan. Considerations will be given to heritage, identity, and social values of the areas surrounding the building. Emphasis on the architectural theories, trends, and movements is required.		

Instructor Information

Instructor Name	E-mail	Office No.	Office Hours
Arch. Dania Abdel-Aziz	d.abdelaziz@ju.edu.jo		As shown on the Official bulletin board

Class Time and Place

Days	Time	Location	Department
Monday - Wednesday	08:00 - 12:00	003 Arch. Workshop	Architecture

Course Objectives

Course Objectives	<ul style="list-style-type: none"> To develop students' ability to use different ways of design thinking confidently. To focus on energy efficiency as an important design determinant. To create many alternatives for solving the design problem through the concept. To develop the students' skills to evolve the conceptual drawings into mature designs. To develop the students' skills to recognize, analyze the urban context.
Course Outcomes	<p>Students should be able to:</p> <ul style="list-style-type: none"> Demonstrate through their design their understanding of energy efficient systems in the design of a high rise building in the urban context. Develop awareness and conceptual understanding of construction of large span structures, High rise buildings and advance building materials. Study the relation of this interior with the exterior environment through the building skin.

References

References	<p>Design Precedents</p> <ol style="list-style-type: none"> 1. Clark, R. and Pause M., 1985. Precedents in Architecture. New York: Van Nostrand. 2. Clark, R. and Pause, M., 1982. Analysis of Precedents. The Student Publication of the school of Design, North Carolina State University. 3. Baker, G. Design Strategies in Architecture: An Approach to the Analysis of Form. 2nd Edition. London and New York: Routledge. <p>Standards</p> <ol style="list-style-type: none"> 4. Eisele, J. and Kloft, E. eds., 2003. High-rise manual: typology and design, construction and technology. Birkhauser. 5. Neufert, E., Jones, V., Thackara, J. and Miles, R., 1980. Architects' data. Granada. 6. De Chiara, J., Panero, J. and Zelnik, M., 1991. Time-saver standards for interior design and space planning. McGraw-Hill Companies. <p>Site</p> <ol style="list-style-type: none"> 7. LaGro, J., 2001. Site Analysis: Linking Program and concept in Land Planning and Design. USA: John Wiley and Sons. 8. White, E., 1983. Site Analysis. USA: Architectural Media. <p>Graphic Thinking</p> <ol style="list-style-type: none"> 9. Lasseau, P. Graphic Thinking for architects and Designers. 2nd Edition. New York: Van Nostrand Reinhold. 10. Porter, T., Goodman, S., 1985. Manual of Graphic Techniques 4 for Architects, Graphic Designers and Artists. London: Butterworth Architecture. 11. Crowe, N., Lasseau, P., 1984. Visual Notes for Architects and Designers. New York: Van Nostrand Reinhold. <p>Design</p> <ol style="list-style-type: none"> 12. Malone, Michael, 2009. The Architect's Guide to Residential Design, McGraw-Hill Education. 13. Kicklighter, C., 1990. E.; Architecture Residential Drawing and Design; The Goodheart-Willcox Company. Inc., South Holland, Illinois. 14. Jones, Will; 2005. New residential architecture: radical approaches to contemporary housing, Mitchell Beazley. 15. Editorial Staff; 1996. Commercial Complexes: 31 Outstanding Shopping Spaces and Restaurant Buildings, Books Nippan: Eng-Jap edition. 16. Schueller. Wolfgang; c1977. High-rise building structures, Wiley. New York. 17. Brown Walter C. and Dorfmueller. Daniel P.; 2012. Print Reading for Construction: Residential and Commercial. Goodheart-Willcox. <p>Urban Design</p> <ol style="list-style-type: none"> 18. Bently, I., Alcock, A., Murrian, P., McGlynn, S., Smith, G., 1993. Responsive Environments: A Manual for Designers. London: Butterworth Architecture. 19. Broadbent, G., Emerging Concepts in Urban Space Design. London, New York: Van Nostrand Reinhold (international). 20. Tibbalds, F., 1992. Making People-Friendly Towns. Uk, Longman Group Limited. 21. Lynch, K., 1960. The Image of the City. Massachusets: MIT. 22. Lynch, K., Hack, G., 1984. Site Planning. 3rd Edition. Massachusets: MIT. 23. Moughtin, C., 2003. Urban Design: Street and Square. 3rd Edition. Uk, Architectural Press. 24. Moughtin, C., Cuesta, R., Sarris, C., Signoretta, P., 2003. Urban Design Methods and Techniques. 2nd Edition. UK, Architectural Press.
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Grade Determination

Description		Scope		Weight		Duration	Work Strategy	Notes
1.	Sketch Design	Two sketch designs.		5%	10%	1 Weeks	Individual	
2.	Design Project	Phase One	Project Research (Nature of project, Case analysis, Site analysis and Program).	10%		2 Weeks	Group work	Due date - refer to course outline
		Phase Two	Concept Submission	10%		4 Weeks	Pair work	
		Phase Three	Design Development	10%		3 Weeks	Pair work	
		Phase Four	Pre-final Submission	15%		2 Weeks	Pair work	
		Phase Five	Final Submission	25%	70%	3 Weeks	Pair work	
3.	Final Exam			20%	20%		Individual	
Total				100%				

Notes on Phases

Phase	Description	Notes
Site Visit	<p>Will be arranged during the 2nd week, bare in mind to use the following tools in order to know the context:</p> <ul style="list-style-type: none"> Your Sketchbook (written notes are mandatory). Your Camera (in order to take photos of the whole site, surroundings and urban context). Panoramic views (drawn or as pictures). 	You have to look at the site and its surroundings with a critical eye.
Site visit outcomes	<ul style="list-style-type: none"> Site pictures; sketches/hard copy. Site surroundings (locations, functions, architectural style, ...etc). Site plan; scale (1:500) - hard copy. Site elevations; scale (1:200) - hard copy. Two sections; scale (1:200) - hard copy. Urban context evolution and intervening (political, cultural, social, environmental... etc). Site climatic data (winds, sun, humidity ..etc). Site physical conditions (topography, land cover, vegetation..etc). Suggest possible entrances and exits, parking and outdoor spaces. Site forces. 	
Case Studies	<p>Make sure to select your case upon a good criteria. Plus the selected case should contains the following drawing in order to get the maximum benefit (site plan, plans, elevations, sections, basic design composition, external and Internal perspectives, and any additional data regarding concept, open spaces, program and parking).</p>	

Course Outline

Week	Date		Submission Due	Marks	Notes
1	Monday	05/09/2016	<ul style="list-style-type: none"> Course outline (syllabus). Design challenge introduction and overview. Group information. 		Your sketchbook should always be ready.
	Wednesday	07/09/2016	<ul style="list-style-type: none"> Data Collection about the nature of the project. Selecting three case studies (local, regional, and international). 		
2	Monday	12/09/2016	<ul style="list-style-type: none"> Eid Al-Adha Vacation. 		
	Wednesday	14/09/2016	<ul style="list-style-type: none"> Eid Al-Adha Vacation. 		
3	Monday	19/09/2016	<ul style="list-style-type: none"> Start your analysis and represent your analytical studies about the nature of the project as well as the case studies. Start thinking in the project requirements: programming and functional. 		Pin up your work
	Wednesday	21/09/2016	<ul style="list-style-type: none"> Site Visit. Continue work in the project requirements: programming and functional. 		
4	Monday	26/09/2016	<ul style="list-style-type: none"> Work on site analysis. Continue working on case study analysis and project requirements: programming and functional. 		
	Wednesday	28/09/2016	<ul style="list-style-type: none"> Presentation of what you analyzed so far. Continue work in the project requirements: programming and functional. 		

5	Monday	03/10/2016	PHASE ONE SUBMISSION: 1. Nature of the project. 2. Site Analysis. 3. Case study Analysis. 4. Program. The submission should be as Hard copy. There will be Jury.	10 marks	Read, Interpret, Evaluate and conclude. Pin up your work
	Wednesday	05/10/2016	Launching of phase two. • Describe the phase, work strategy, and submission requirements.		
6	Monday	10/10/2016	• Develop design concept. • Phase One Submission of soft copy-CD (scanning of the hard copy).		- 2 marks For whom didn't submit soft copy
	Wednesday	12/10/2016	• Develop design concept.		
7	Monday	17/10/2016	• Develop design concept.		
	Wednesday	19/10/2016	PHASE TWO SUBMISSION. • Design concept submission (three alternatives with conceptual model for two of them, scale 1:200). Launching of phase three.	10 marks	Pin up your work
8	Monday	24/10/2016	Sketch design one	5 marks	
	Wednesday	26/10/2016	• Design Development		
9	Monday	31/10/2016	• Design Development		
	Wednesday	02/11/2016	• Design Development		
10	Monday	07/11/2016	PHASE THREE SUBMISSION. • Launching of phase four.	10 marks	Pin up your work
	Wednesday	09/11/2016	• Design Development		
11	Monday	14/11/2016	Sketch design two	5 marks	
	Wednesday	16/11/2016	• Design Development		
12	Monday	21/11/2016	PHASE FOUR SUBMISSION. • Launching of phase five.	15 marks	Pin up your work
	Wednesday	23/11/2016	• Design Development		
13	Monday	28/11/2016	• Design Development		
	Wednesday	30/11/2016	• Design Development		
14	Monday	05/12/2016	• Design Development		
	Wednesday	07/12/2016	• Design Development		
15	Monday	12/12/2016	PHASE Five SUBMISSION. Final design submission	25 marks	Pin up your work
16	On this week or the week after will be your final exam (it will be assigned by our department)				

Note: The Last day of giving lectures will be on 29/12/2016 and beginning of final exams will be on 03/01/3016

Course Policies

University regulations are applied to this course regarding; class attendance, punctuality exams, late submissions, absence with permission and penalties for cheating. NO ONE CAN ASK FOR HIS GRADES BEFORE ANNOUNCING IT.

Submissions

Design phases should be submitted on the corresponding class. NO LATE SUBMISSION WILL BE ACCEPTED unless prior arrangement have been made with the instructor. No make-up allowed on Submission. Each Submission must be your own solution. Duplicates designs will be regarded as cheating. Issues of presentation will take into account due to evaluation time:

- Conceptualization or the depth of the design solution.
- Resolution or clarity of the results.
- Comprehensiveness of the range of the solution.

Class behaviour

Students are expected to be well-disciplined and pay full attention to the lecture, be an “active” listener, respect the right of others to learn and not engage in any behavior (side conversations, using mobile phones) that may disturb the lecturer or the classmates. No one can use his cell-phone during the studio hours. ANY CELLPHONE RINGS, HIS OWNER WILL BE PUNISHED. BE ON TIME.