

Syllabus

Faculty	Architecture and Design
Specialization	Architecture Engineering
Semester	Second semester
Academic Year	2019/2020

Course Name	Scientific Research in Architecture and Design
Course Number	1101222

Each student shall receive a copy of the syllabus to be kept for future reference.

1. Instructor Information

1. Instructor: Arch.Mais Aljbour
2. Office: 358
3. Office Telephone: +962 6 4790222
4. Email: maljbour@meu.edu.jo
5. Office Hours: Mon & Wed (10:30-11:30), Sun. & Tues (11:00 – 13:00), Sat (9:00 -3:00)

2. Course Details

1. Meeting Times: Mon /wed: 14:00-15:30
2. Location: BB 13
3. Course Laboratory (if any):

3. Sources and References

1. Required Readings:

A. **Lecture Notes:** The student is responsible for taking notes during the lecture in a special notebook or folder. The student's notebook may be collected at any time without prior notice for the purpose of follow-up and evaluation.

B. Groat,Linda N. &Wang,David, **Architectural Research**

Methods, Hoboken (NJ): JohnWiley&Sons (2 second ed.) 2013

2. Additional Readings:

A. Smith, Korydon, **Introducing Architectural Theory**, New York: Routledge, 2012.



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Ref.: Deans' Council Session (03/2018-2019), Decision No.: 14, Date: 15/09/2018

B. Spector, Tom&Rebecca, Damron, How Architects Write,
New York: Routledge, 2013.

C. عليان, ربحي مصطفى, البحث العلمي: أسسه, مناهجه وأساليبه, إجراءاته

بيت الافكار الدولية 2001

4. Course Description:

This course consists of a series of interactive theoretical lectures on the nature of research in architecture and design and its various aspects, with practical applications in the form of individual or group exercises and assignment.

5. Aims and objectives:

To acquaint the student with the concept of scientific research in general, and in architecture and design in particular, whether for design projects or report writing and preparing for seminars. It tackles research in its various stages from identification of the research problem to the final presentation of the research and its results means and media.

6. Course Learning Outcomes (CLOs):

1. Understand the nature of the concept of research in general, and research in architecture and architectural design in particular.
2. Realize the importance of research and its role in the various aspects of architecture, esp. architectural design.
3. Know the various kinds of researches and research methods and their requirements and applications in the various fields of architecture.
4. Understand the various terms and concepts relevant to research, and able to translate them to / from their various languages.
5. Efficiently use the various sources of information (e.g. .the library, internet, environment, etc.) to find and extract the information required from them.

6. Conduct the basic kinds of research necessary for undergraduate students of architecture ,esp. research for design projects , ad various reports and short essays, i.e.to be able to define research problems ,design research , collect data , analyze it, interpret it ,state findings , draw conclusions from it.

7. Present the research /report/essay/study/etc. in an appropriate manner using the appropriate method medium/media whether spoken or writer.

7. Program Learning Outcomes (PLOs):

1. Implement concepts of architecture with high proficiency.
2. Keep pace with intellectual and practical developments to fulfill the varying needs of society.
3. Understand the importance of local heritage and preserve it.
4. Understand the diverse civilizations of the world and boost cultural exchange.
5. Apply innovation and critical thinking on various fields of Architecture.
6. Find creative and innovative solutions for various design dilemmas.
7. Use high skills in expressing and communication.
8. Continuously learn how to conduct research and apply it in professional practices.
9. Adhere to professional ethics and principles of practice.

8. Teaching Methods:

The methods of instruction may include, but are not limited to:-

1. Theoretical lectures and discussions.
2. Lectures by external expertise in the field.
3. Library visits.

#	Description	Weight	Description
1.	Midterm exam	20%	
2.	Presentation	20%	
3.	Participation	10%	Final/50
4.	Final exam	50 %	
Total		100%	

9. Course Schedule:

Week	Topics to be covered	Readings (Pages)	CLOs	PLOs
1	Introduction to Course		1-9	1,2,3,4
2	What Is Research?		1-9	1,2,3,4
3	Introduction to Scientific Research Purposes of Scientific Research Characteristics of Scientific Research, Research Problems, Types of Research, Stages of Research ,Research Design Research in Architecture and Design		1-9	1,2,3,4
4-6	Research Methods Historical, Descriptive, Experimental Developmental , Other Method		1,2,3,4 1-9	
7	The Research Problem Problem Definition Assumptions and Hypotheses		1-9	1,2,3,4
8	Midterm exam			
9 -11	Information Sources: Data Collection		1-9	1,2,3,4

	Questionnaires Interviews Observation Documents Statistics Research Documentation			
10-13	Report Writing and Presentation Design Project Research Reports		1-9	1,2,3,4
14	Final Exam			

10. Course Policies

- Course policies are determined by Undergraduate and Postgraduate Degree Regulations and Student Guide

- Policies should be announced during the first meeting.

1. Attendance: Students are expected to attend all classes of this course (without exception). A prior approval is required for class absence except for emergencies. However, any student with 15% short attendance will be not being allowed to attend the final exam, and may better drop the course.

2. Tardiness:

Students are not allowed to come late to class. Any student coming more than 5 minutes late will be marked absent. However, he/she may still be allowed to attend the class in spite of being marked absent if he/she wishes to do so, on the condition that the student does not make a habit of it, and that the number of tardy students is limited to a little number of very special cases.

3. Exams:

Failure in attending a course exam will result in a zero mark unless the student provides an excuse acceptable to the instructor, the Head of the Department, and the Dean who approves a re-sit exam. It is the student's responsibility to attend the exam at the correct time and place. The mid-term exam papers will be returned to the students.

Re-sit Exams: The student will not be allowed to re-sit an exam unless he/she furnishes the institute with written evidence of the following cases: Sickness (by providing a medical report stamped by University physician within the time limit stated by the University), the death of a member of his/her family, an accident. In the case of natural disasters or severe conditions that affect all

students in general (e.g. heavy snow storms) the situation shall be properly handled and announced by the administration.

4. Assignments and Projects:

Exercises will take place in the class room and will be continued at home.

5. Attending Exams and Meeting Deadlines:

In the event that a student shows up late for the mid-term exam, he/she will be permitted to attend the exam on the condition that none of his/her has already left the room; also he/she will not be allowed any extra time. In the event that a student is more than 30 minutes late for the final exam, he/she will not be permitted to attend the exam.

6. Penalties for Cheating:

Cheating is an attempt to gain marks dishonestly and includes: Copying from another student's work, using materials not authorized by the institute or instructor, collaborating with another student during a test without permission, knowingly using, buying, selling, or stealing the contents of a test, getting help from outside during a test by using any kind of electronic device, etc.



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