



Jordan University of Science and Technology
Faculty of Architecture And Design
Architecture Department

ARCH372 Architectural Analysis And Programming - JNQF Level: 6

First Semester 2024-2025

Course Catalog

2 Credit Hours. Pre-design studies and methods of problem understanding and analysis, site studies, and analysis. Context considerations. Design problems analysis and understanding. Architectural and facilities programming. Fundamental concepts and models of architectural problem-solving.

Teaching Method: Blended

Text Book

Title	Architectural Programming- Information Management for Design
Author(s)	Duerk, Donna
Edition	1st Edition
Short Name	text book
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
ref #1	Problem Seeking: An Architectural Programming Primer	Pena, W. M. & Parshall, S. A	5th Edition	
ref #2	Architectural Programming and Pre Design Manager.	Hershberger, Robert,	2nd Edition	
ref #3	Architectural Programming, Creative Techniques for Design Professionals.	Kumlin, Robert,	3rd Edition	
ref #4	New Metric Handbook, Planning and Design Data, Butterworth Architecture	Tutt, Patricia and David Adler	1st Edition	
ref #5	Programming the Built Environment.	Preisner, Wolfgang F.	2nd Edition	

Instructor

Name	Mrs. Asma Bataineh
Office Location	-
Office Hours	
Email	ambataineh@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Sun : 08:30 - 09:30
 Room: A3131

Section 2:
 Lecture Time: Sun : 10:30 - 11:30
 Room: A3131

Prerequisites

Line Number	Course Name	Prerequisite Type
2212120	ARCH212 Architectural Design (2)	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Course policy and syllabus - Introduction to Architectural analysis and programming, lecture of introduction (palmer), definition of architectural programming (durek, chapter 1)	From text book
Weeks 3, 4	Issue based programming , how to write a goal statement	chapter 2 + 3 From text book
Weeks 5, 6	what is performance requirement, concept	chapter 4 + 5 From text book
Weeks 7, 8	what is scientific method, Application of architectural programming, Research methods for designers (literature review +observation) , Research methods for designers (interview + photo documentation)	chapter 6+7 From text book

Weeks 9, 10	Advanced Research Methods	chapter 8 From text book
Weeks 11, 12	Advanced Research Methods	chapter 8 From text book
Weeks 13, 14	Information management strategies Evaluation, case studies	chapter 10 + 11+12 From text book

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
define architectural programming and its needs, working within structures and frameworks, and Understand the theoretical bases of architectural research methodologies. [1C.C1] [80L6K2]	80%	
Examination of Research methodologies and practices used during the design process. (experimenting with research methodologies by selected research topic). [1C.C1] [20L6S1]	20%	

Relationship to Program Student Outcomes (Out of 100%)																									
A.A1	A.A2	A.A3	A.A4	A.A5	A.A6	A.A7	A.A8	B.B1	B.B2	B.B3	B.B4	B.B5	B.B6	B.B7	B.B8	B.B9	B.B10	C.C1	C.C2	C.C3	D.D1	D.D2	D.D3	D.D4	D.D
																		100							

Relationship to NQF Outcomes (Out of 100%)	
L6K2	L6S1
80	20

Evaluation	
Assessment Tool	Weight
Mid exam	30%
Research paper	20%
Exercises	10%

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