



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

ARCH252 Building Construction (2) Systems
Summer Semester 2019-2020

Course Catalog
3 Credit Hours. The course is to acquaint students with general concepts related to the building process, various building construction techniques employed in contemporary construction. The course will concentrate on building construction methodologies locally and internationally. Concrete and steel constructions will be investigated through understanding their Skeleton systems from foundations to roof, their materials, mechanism, options, major and minor elements. Major components of partitions, staircases, elevators, windows, doors, and insulation works. Construction drawings exercises are required in parallel to lectures.

Text Book	
<b>Title</b>	Building Construction Illustrated (2008)
<b>Author(s)</b>	Ching, F.D.K
<b>Edition</b>	4th Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Building Construction Principles, Materials, & Systems (2009)	Mehta, M, Scarborough, W, Armpriest, D	1st Edition	
Ref #3	Fundamentals of Building Construction: materials and methods	Allen, Edward, Iano, Joseph	5th Edition	
Ref#5	The construction of Buildings. Volume One. Construction and Materials	Barry, R	2nd Edition	

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

Class Schedule & Room
Section 1: Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 13:00 Room: منصة الكترونية

Prerequisites		
Line Number	Course Name	Prerequisite Type
2211520	ARCH152 Building Construction (1) Materials	Prerequisite / Pass

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Course policy and syllabus - Introduction to Building Construction II The Building Site (Building in Context, Site Analysis, Site Access Circulation, The Site Plan, Loads on Buildings, Structural and Non-Structural Elements ???)	
Week 2	Foundation Systems	
Weeks 5, 6	Walls Systems	
Week 3	Floors Systems	
Week 7	slabs and Roofs Systems	
Weeks 4, 5	post and beam systems	
Week 7	Final project submission & Presentations	
Week 8	final exams	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
knowledgeable about the building design process, capable to identify and evaluate various building systems. [1B.B7, 1B.B8]	30%	
understand, illustrate basic components, principles of structural systems, and how they work (ability to hold out gravitational, seismic, and lateral forces) [1B.B7, 1B.B8]	30%	
identify, describe, and use the tools that are common to the building construction industry. [1B.B7, 1B.B8]	20%	
analyze various construction systems and differentiate between traditional building methods & various new construction technologies [1B.B7, 1B.B8]	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.D5	
														50	50											

Evaluation	
Assessment Tool	Weight
Mid exam	30%
project, poster, oral presentation	20%
Final exam	50%

Policy	
Teaching and Learning Methods	The methods to be used include assignments, projects, field trips, and discussions. Attendance (for Zoom meetings) is important in order to complete the required assignments and following up with video lectures and supporting materials.

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