

COURSE PLAN

FIRST: BASIC INFORMATION

College									
College	: Karak University College								
Department	: Department of Basic and Informatics Sciences								
Course									
Course Title	International Construction Standard								
Course Code	020112284								
Credit Hours	1 (1 Theoretical, 0 Practical)								
Prerequisite									
Instructor									
Name	: Rozan Sameer ali alhunifat								
Office No.	: -								
Tel (Ext)	: -								
E-mail	: rozan.sameer@bau.edu.jo								
Office Hours	: -								
Class Times	<table border="1" style="width: 100%; border-collapse: collapse; height: 40px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>								
Text Book									
Title	Annual ASTM book, section 4								

References

- ICMS: <https://www.rics.org/enin/upholdingprofessionalstandards/sectorstandards/construction/icmsinternationalconstructionmeasurementstandards/>
- [https://www.designingbuildings.co.uk/wiki/International_Construction_Measurement_Standards_\(ICMS\)](https://www.designingbuildings.co.uk/wiki/International_Construction_Measurement_Standards_(ICMS))

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

This course covers the basic knowledge of International Building Standards in Construction and Jordanian Law (based on FIDIC). And it deals with practical knowledge that can accurately utilize knowledge related to laws and regulations.

COURSE OBJECTIVES

The objective of this course is to enable the student to do the following:

- Recognize the international construction Building Standards developed by ASTM
- Recognize the international construction Road Standard, developed by ASTM
- Recognize the international construction Geotechnical Engineering Standard developed by ASTM

COURSE LEARNING OUTCOMES

Upon the completion of this course students will be able to:

- CLO1. Explain various building materials
- CLO2. Identify the Adhesive Standards
- CLO3. Identify the building Standards
- CLO4. Identify the Cement Standards
- CLO5. Identify the Concrete Standards
- CLO6. Identify the Fire Standards & Flammability Standards
- CLO7. Identify the Geotechnical Engineering Standard
- CLO8. Identify Masonry Standards
- CLO9. Identify road Standards
- CLO10. Identify Paving Standard
- CLO11. Identify Roofing Standard
- CLO12. Identify Thermal Insulation Standard
- CLO13. Identify Wood Standard

COURSE SYLLABUS

Week	Topic	Topic details	LEARNING OUTCOMES	Proposed assignments
1	Introduction	<ul style="list-style-type: none"> • An overview of international standards and the classification mechanism used. • How are the standards adopted? • Where and when is it applied? • What are the consequences of not adhering to the standards 	CLO1	Comparing the criteria studied this week with what is applied in reality
2	Adhesive Standards	<ul style="list-style-type: none"> • Scope: <ol style="list-style-type: none"> a) Symbolizing Adhesive Applications b) Preparation of Metal Surfaces for Adhesive Bonding • General Requirements • Detail Requirements 	CLO2	"
3	Building Standards	<ul style="list-style-type: none"> • Scope • Significance and Use • Basis of Classification • Description of Field Requirements Individual • Classification 	CLO3	"
4	Cement Standards	<ul style="list-style-type: none"> • Types of Cementitious Materials • Portland Cements <ol style="list-style-type: none"> a) Specifications for Portland Cements b) Air-Entraining Portland Cements • Natural Cements: 	CLO4	"

Week	Topic	Topic details	LEARNING OUTCOMES	Proposed assignments
		a) Physical Requirements b) Chemical Requirements		
5	Concrete Standards	<ul style="list-style-type: none"> • Concrete: specifications • Concrete aggregates • Concrete admixtures • Concrete bonding • Concrete construction 	CLO5	"
6	Fire Standards & Flammability Standards	<ul style="list-style-type: none"> • Scope • Significance and Use: <ol style="list-style-type: none"> a) Effect of Heat on materials for Improving Fire Resistance 	CLO6	"
7	Geotechnical Engineering Standard	<ul style="list-style-type: none"> • Scope • Summary of Guide • Significance and Use 	CLO7	"
8		Mid-term exam		
9	Masonry Standards	<ul style="list-style-type: none"> • Scope <ol style="list-style-type: none"> a) Masonry Definitions • Material <ol style="list-style-type: none"> a) Masonry cements, b) Concrete Masonry Units • Physical Requirements • Requirements for Reinforcement • Finish and Appearance 	CLO8	"
10	Road Standard	<ul style="list-style-type: none"> • Scope • Significance and Use • Responsibilities and Duties • General Capabilities • Quality System Criteria 	CLO9	"
11	Paving Standard	<ul style="list-style-type: none"> • Scope • Material: <ol style="list-style-type: none"> a) Asphalts for pavement b) Various grades c) The depth of penetration of a standard needle • Physical Requirements • Finish and Appearance 	CLO9	"
12	Roofing Standard	<ul style="list-style-type: none"> • Scope • Material: <ol style="list-style-type: none"> a) Asphalts for damp proofing and waterproofing b) Bituminous roofing • Physical Requirements • Finish and Appearance 	CLO10	"
13	Thermal Insulation Standard	<ul style="list-style-type: none"> • Scope • Summary of Guide • Significance and Use 	CLO11	"

Week	Topic	Topic details	LEARNING OUTCOMES	Proposed assignments
14	Wood Standard	<ul style="list-style-type: none"> • Scope • Mechanical properties of wood • Commercial grades of wood 	CLO13	-
15	Wood Standard	<ul style="list-style-type: none"> • Destroyers and preservatives • Basic Characteristics of Wood • Structural Grading of Wood 	CLO13	-
16		Final Exam		-

COURSE LEARNING RESOURCES

Teaching will be achieved using available resources including Lectures, data show and materials uploaded to the e-learning system and term projects.

ONLINE RESOURCES

A lot of references and learning videos and codes are available on the internet. The student could refer to them for more information.

ASSESSMENT TOOLS

	ASSESSMENT TOOLS	%	
	Projects and Quizzes	20	
	Mid Exam	30	
	Final Exam	50	
	TOTAL MARKS	100	

THIRD: COURSE RULES

ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

GRADING SYSTEM

Example:

REMARKS

Use of Mobile Devices, Laptops, etc. During Class, unexpected noises and movement automatically divert and capture people's attention, which means you are affecting everyone's learning experience if your cell phone, laptop, etc. makes noise or is visually disturbing during class. For this reason, students are required to turn off their mobile devices and close their laptops during class.



Academic Integrity. Copying assignments, allowing assignments to be copied, will fail the assignment on the first offense. Cheat in tests, or copying assignments for the second time.

Cite all sources consulted to any extent (including material from the internet), whether or not assigned and whether or not quoted directly.

Project: Students will undertake a term project to study in detail one of the course topics. The project may involve a critical literature review or a case study. The students should consult at least five (5) references or journal articles. A written project report of 10 pages maximum will be submitted in nominated dates. Ten-minute presentation will be given to the rest of the class during the last two weeks of the semester.

Formats, Rules, Topics, submission and presentation dates are illustrated in project form.

COURSE COORDINATOR

Course Coordinator

Signature:

Date:

Department Head:

Signature:

Date: