



Jordan University of Science and Technology
Faculty of Engineering
Civil Engineering Department

CE211 Engineering Geology (2)

Summer Semester 2019-2020

Course Catalog

2 Credit Hours. 2 Credit hours (2 h lectures). A study of earth materials, formation of rocks, surface feature, surface and internal structures and their relationship to engineering works, analysis of the agents of weathering, erosion, diastrophism and their effect on engineering construction.

Text Book

Title	Engineering Geology
Author(s)	Perry H. Rahn
Edition	2nd Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Structural Geology	Robert J. Twiss and Eldridge M. Moores	3rd Edition	

Instructor

Name	Miss Mysa AlKhasoneh
Office Location	-
Office Hours	
Email	makhassawneh@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 12:30

Room: منصة الكترونية

Prerequisites

Line Number	Course Name	Prerequisite Type
911020	CHEM102 General Chemistry (2)	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to course outlines, objectives and grading	
Week 2	Introduction to engineering geology	
Weeks 3, 4	Silicate minerals and non-silicate minerals	
Week 4	Physical properties of minerals	
Weeks 5, 6, 7, 8, 9	Rock types and their formation	
Weeks 10, 11	Rock types and their formation	
Weeks 11, 12	Subsurface ground water	
Weeks 12, 13	Mass wasting	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the physical properties of minerals, crystal form, and ore minerals. [1SLO1, 1SLO2]	25%	
understand type and characterization of rocks , igneous rock classification, shape of rock masses, (Batholiths, laccoliths, sills and dikes) , formation of metamorphic rocks. [1SLO4, 1SLO5, 1SLO6]	25%	
Understand the mechanism of weathering of soils (physical and chemical), rate of weathering, formation of sedimentary rocks, classifications of soils and rocks for civil engineering objects. [1SLO1, 1SLO4, 1SLO5]	25%	
understand the meaning of aquifers and their types, foundations and rock stability [1SLO1, 1SLO2, 1SLO3]	25%	

Relationship to Program Student Outcomes (Out of 100%)

SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7
29.17	20.83	8.33	16.67	16.67	8.33	

Evaluation	
Assessment Tool	Weight
Final Exam	100%

Policy	
policy	The course contributes to study of earth materials, formation of rocks, surface feature, surface and internal structures and their relationship to engineering works, analysis of the agents of weathering, erosion, diastrophism and their effect on engineering construction.

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