

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue 2023-2024

College/ InstituteErbil Polytechnic UniversityDepartmentHighway Engineering TechniqueDepartmentDepartmentModule NameEngineering GeologyModule CodeENG405DegreeTechnical DiplomaBachelor ✓				
Department Module Name Engineering Geology Module Code ENG405				
Module Name Engineering Geology Module Code ENG405				
Module Code ENG405				
Degree Technical Diploma Bachelor V				
reclinical Diploma	,			
High Diploma Master PhD				
Semester 4 th				
Qualification M.Sc. Structural Engineering	M.Sc. Structural Engineering			
Scientific Title Assistant Lecturer	Assistant Lecturer			
ECTS (Credits) 6	6			
Module type				
Weekly hours 4 hours				
Weekly hours (Theory) (4) hr Class (132.5) Total hrs				
Workload				
Weekly hours (Practical) (None)hr Class (None)Total hrs Workl	oad			
Number of Weeks 12				
Lecturer (Theory) HUNAR ISSA	HUNAR ISSA			
E-Mail & Mobile NO. hunar.omer@epu.edu.iq - 07504487577	hunar.omer@epu.edu.iq - 07504487577			
Lecturer (Practical) None	None			
E-Mail & Mobile NO.				
Websites				

Course Book

Course Description	This course explores the fundamentals of geology applied to civil engineering problems. Topics include rock and mineral types, soil properties, rock mechanics, geologic structures, active tectonics and earthquake hazards, slope stability and landslides, groundwater, rivers and flood hazards.				
Course objectives					
Student's obligation	b. To par c. Study of d. To wri e. Prepar f. Vet the possible g. Prepar h. Solve a i. Prepar set by th j. Prepar the lectu k. Prepar	 a. To attend the classes regularly with minimum absence. b. To participate actively in the class discussion and Q&A session. c. Study on daily basis to digest the class material d. To write note off-handouts e. Prepared for sudden Quizzes f. Vet through the references provided by the lecturer and to solve as much as possible of homework and exercises for the subjective materials. g. Prepare the assignment and the seminar as instructed by the lecture. h. Solve and submit the home works on time. i. Prepare and submit the requested scientific reports on time to the standards set by the lecturer. j. Prepare and present seminars in the number required for the titled assigned by the lecturer. k. Prepare for and attend the mid – terms exam l. Prepare for and attend the final – exam 			
Required Learning Materials	Students at this stage with the workload assigned technical for the subject are not required to scatter their attention with bunch of sources. Students are encouraged to thoroughly study the reference given by the lecturer and to vet through available cyber data related to the subject and this shall include the concrete technology worked examples and all those are support with construction site visit for the students to appreciate and monitor closely the application of the theoretical concept in construction.				
	Task		Weight (Marks)	Due Week	Relevant Learning Outcome
	Paper Review		None f		for B.SC.
Evaluation	Assignm ents	Homework	10	Weekly	Application for subject by subject
	gnm ts	Class Activity	2	Weekly	Participate in syllabus learning

		Report	8	4 th & 8 th	Concentrate on certain subject of the module and cover its technical aspects
		Seminar	8	6 th & 10 th	Individual or in group for subjects within the module but out of the syllabus
		Essay			
		Project			
	Quiz Lab. Midterm Exam Final Exam Total		8		
			24	7 th	
			40	14 th & 15 th	
			100		
Considia la susina					_

Specific learning outcome:

Course References:

Course topics (Theory)	Weeks	
 Engineering Geology and earth crust 	1 st	
2. Minerals	2 nd & 3 rd	
3. Factors affecting earth crust	4 th	
4. Rocks, Types and Characteristics	5 th & 6 th	
5. Physical and engineering properties of rocks	7 th	
6. Soils, origin and Characteristics	8 th & 9th	
7. Physical and engineering properties of soils	10 th & 11 th	
8. Internal and external stresses is soils	12 th	
9. Geological Maps	13 th	
10. Contour Maps	14 th	
11. Geophysical Investigations	15 th	

Questions Example Design

First year teaching, no questions example yet

Extra notes:

None so far

External Evaluator		