

1. Course Name:					
Geology					
2. Course Code:					
CIV12204					
3. Semester / Year:					
Second/ First Year					
4. Description Preparation Date:					
1 September 2025					
5. Available Attendance Forms:					
Class					
6. Number of Credit Hours (Total) / Number of Units (Total)					
4/4					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Adil N. Abed					
Email: adil.abed@muc.edu.iq					
8. Course Objectives					
Course Objectives	Graduation of civil engineers qualified to work in their various fields of specialization: 1. Providing the student with skills to deal with developments and progress in the field of specialization. 2. Providing the student with a higher ability to understand principles of science. 3. - Instilling the spirit of diligence and perseverance and encouraging them to create and innovate.				
9. Teaching and Learning Strategies					
Strategy	• Introduce students to science of geology • Self-regulated learning (i.e., Identifying, classification and evaluation). • Practice testing (short question answers and exams). • Self-explanation (i.e., explaining to oneself how new information is related to information or explain steps taken when solving a problem or a task).				
1. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Introduction – Geology Science	Study of Earth	Theory+ Tutorial	Several Ways (Exams + Assignments)
2	4	Continue- Branches of Geology	Main geology fields	Theory+ Tutorial	Several Ways (Exams + Assignments)
3	4	Engineering Geology	Geology in engineering	Theory+ Tutorial	Several Ways (Exams + Assignments)
4	4	Earth Profile	Layers of Earth	Theory+ Tutorial	Several Ways (Exams + Assignments)

5	4	Minerals	Basic rock components	Theory+ Tutorial	Several Ways (Exams + Assignments)
6	4	Minerals Properties	Identification features	Theory+ Tutorial	Several Ways (Exams + Assignments)
7	4	Earth profile	Structure of Earth	Theory+ Tutorial	Several Ways (Exams + Assignments)
8	4	Rocks	Natural mineral aggregates	Theory+ Tutorial	Several Ways (Exams + Assignments)
9	4	Igneous Rocks	From cooled magma	Theory+ Tutorial	Several Ways (Exams + Assignments)
10	4	Common Igneous rocks	Granite, basalt, andesite	Theory+ Tutorial	Several Ways (Exams + Assignments)
11	4	Sedimentary Rocks	From deposited sediments	Theory+ Tutorial	Several Ways (Exams + Assignments)
12	4	Formation processes and common rocks	How sedimentary rocks form	Theory+ Tutorial	Several Ways (Exams + Assignments)
13	4	Metamorphic rocks	Changed by heat/pressure	Theory+ Tutorial	Several Ways (Exams + Assignments)
14	4	Common rocks	Marble, slate, schist	Theory+ Tutorial	Several Ways (Exams + Assignments)
15	4	Folds	Bending of rock layers	Theory+ Tutorial	Several Ways (Exams + Assignments)

2. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

1. Course cumulative:

a. Assignments: 10

b. Quizzes: 10

c. Midterm Exams: 10

d. Reports: 10

e. H.W: 10

2. Final Exam: 50

3. Learning and Teaching Resources

Required textbooks (curricular books any)	BANGAR K.M (1995) "Geology ; General and Engineering"
Main references (sources)	Lutgens, F.K & Tarbuck, E.J (2009) "Essentials of Geology"
Recommended books and references (scientific journals, reports...)	Notebook prepared by the instructor of the course
Electronic References, Websites	