

Course Specifications

Programme(s) on which the course is given: B.Sc. (Geology, Geophysics, Petroleum geology, Chemistry and Geology, Physics and Geology, Mathematics etc....)

Major or Minor element of programmes: Major in Geology, Geophysics, Physics and Geology, Chemistry and Geology and minor in most programs.

Department offering the programme: Geology

Department offering the course: Geology

Academic year / Level:00/ >36, 1

Date of specification approval:

a- Basic Information

Title: Physical Geology

Code: G141

Credit Hours: 3 Credit

Lecture: 1½ Credit Hour

Prerequisite:----- Practical: 3 Hours

Total: 3 Credit Hours

b- Professional Information

1 – Overall Aims of Course:

- **Knowing the geological internal and external processes affect the surface of the earth.**
- **Developing the basic geological knowledge**

2 – Intended Learning Outcomes of Course (ILOs)

- a- Knowledge and Understanding: By the end of this course, the student should be able to:**
- a1- Understand the terminology, nomenclature and classifications used in physical geology**
 - a2- Understand the concepts and principles of physical geology**
- b- Intellectual Skills: By the end of this course, the student should be able to:**
- b1- Classify the main topographic features.**
 - b2- Identify different rock types.**
 - b3- Apply knowledge and understanding to address familiar and unfamiliar problems**
- c- Professional and Practical Skills: By the end of this course, the student should be able to:**
- c1- Read and write scientific physical geology research articles.**
 - c2- Interpret information derived from topographic maps.**
- d- General and Transferable Skills: By the end of this course, the student should be able to:**
- d1- Write scientific report of geologic map.**
 - d2- Respect the views and opinions of other team members**
 - d3- Interpret different information on topographic and hydrogeologic maps.**

3. Contents

Topic	Cre dit hou rs	Lect ure	Tutorial/P ractical
The solar system	3	1½	3

Origin of the Earth	3	1½	3
Earth's interior	3	1½	3
The atmosphere	3	1½	3
The hydrosphere	3	1½	3
The lithosphere	3	1½	3
The external processes	6	3	6
The weathering processes	3	1½	3
Transportation and deposition	3	1½	3
The internal processes	3	1½	3
Earth movement	3	1½	3
Volcanic and Earthquakes	3	1½	3
Groundwater	3	1½	3
Total	42	21	42

4 – Teaching and Learning Methods

4.1-professional lecture.

4.2-class discussion.

4.3-individual laboratory work.

4.4-quizzes and homework problems.

5- Student Assessment Methods

5.1-regular verbal and written exam. to

assess a1-a3, b1-b2

5.2-mid-term exam to assess

a1-a3, b1-b2, c1-c2

5.3-at the end of term exam to assess

a1-a3, b1-b2, c1-c2

5.4-reports, discussion and practical to

assess d1-d3

Assessment Schedule

Assessment 1: short exam (class activities)

every two weeks

**Assessment 2 :mid-term (written and practical)
week 7**

**Assessment 3: final-term (written and practical)
week 15-16**

Weighting of Assessments

	Written	Practical
Mid-Term Examination: 20%		20%
Written Final-term Examination: 60%		60%
Semester Work (including reports, oral and discussion): 20%	20%	
Total: 100%	100%	

6- List of References

6.1- Course Notes: Prepared by staff members

6.2- Essential Books (Text Books):

Tarbuck and Lutgens: Earth: An introduction to physical geology, eight edition.

6.3- Recommended Books

See many historical geology books in the library.

6.4- Periodicals, Web Sites, ... etc

7- Facilities Required for Teaching and Learning

Laptop, data show, internet connection and computers, different crystal models (glass, wood and metal) for practices.

Course Coordinator: Prof. Hasan El Shayeb

Head of Department: Prof. Ahmed Al-Boghdady

Date: / / 2012