

1	Course title	Plate Tectonics
2	Course number	0305403
3	Credit hours (theory, practical)	3 hours weekly
	Contact hours (theory, practical)	(011:00-12:00) three times a week.
4	Prerequisites/co requisites	
5	Program title	Geology
6	Program code	---
7	Awarding institution	Department of geology
8	School	Science
9	Department	Geology
10	Level of course	Bachelor
11	Year of study and semester (s)	2017\2018 Spring semester (First semester)
12	Final Qualification	
13	Other department (s) involved in teaching the course	No other department (s) involved in teaching the course
14	Language of Instruction	English
15	Date of production/revision	18.09.2017

#### 16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.  211, Sun, Mon and Thur (10:00-11:00 and 12:30-14:00), m.hseinat@ju.edu.jo, Dr. Mu'ayyad Al Hseinat
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#### 17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.
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#### 18. Course Description:

As stated in the approved study plan. - The course will provide the students with an advance understanding of Plate Tectonics, i.e., Investigating Earth's structures, Continental drift theory, Seafloor spreading, Magnetic stripes and polar wandering, Mantel convection models, Plate boundaries, Rates and motion of the plates, Hot Spots, History of the continents. The topics covered in this course will allow the students to better understanding of the physical processes that caused plate tectonics.
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**19. Course aims and outcomes:****A- Aims:**

Provide an advance understanding of Plate Tectonics, i.e., Investigating Earth's structures, Continental drift theory, Seafloor spreading, Magnetic stripes and polar wandering, Mantel convection models, Plate boundaries, Rates and motion of the plates, Hot Spots, History of the continents. The topics covered in this course will allow the students to better understanding of the physical processes that caused plate tectonics.

**B- Intended Learning Outcomes (ILOs):** Upon successful completion of this course students will be able to

Skill Outcomes Knowledge and

1- Identify the Plate Tectonics and major processes that play role in moving the plates.

2- Understand what the different types of plate boundaries are with special focus on the plate tectonic theory.

**20. Teaching Methods and Assignments:**

Development of ILOs is promoted through the following teaching and learning methods:

- Lectures, discussion groups, tutorial, problem solving, debates .etc.
- The use of power Point presentations, Illustrations with modules, educational animations, and movies.

**21. Evaluation Methods and Course Requirements:**

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

First exam 30%

Second exam 30%

Final exam 40%

**Total 100%**

**22. Course Policies:**

**A- Attendance policies:** Students must attend 85% of the lectures and field trips. Otherwise the course is dropped.

**B- Absences from exams and handing in assignments on time:** Medical excuses are accepted for retaking the missed exams.

**C- Health and safety procedures:** Field safety procedures are explained at the beginning of classes

**D- Honesty policy regarding cheating, plagiarism, misbehaviour:** As University rules.

**23. Required equipment: ( Facilities, Tools, Labs, Training,...)**

No.

## 24. References:

Required book (s), assigned reading and audio-visuals:

- Plate Tectonics and Crustal Evolution, 4th Edition Author(s): Kent C. Condie, 1997
- Internet, Support material (s): presentations, homework and video clips

## 25. Additional information:

### *Thinking and analysis*

The thinking skills will be developed by encouraging students to conclude answers of different questions that the instructor intends to use during the presentation of the scientific material. The instructor intend to stimulate the student`s analytical thinking side via connections with general aspects in daily life or through questions, net searching, and home works.

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----