



University of Science and Technology of Hanoi
 Address: Building 2H, 18 Hoang Quoc Viet, Cau Giay, Hanoi
 Telephone/ Fax: +84-4 37 91 69 60
 Email: officeusth@usth.edu.vn
 Website: <http://www.usth.edu.vn>

COURSE SYLLABUS

Subject: Earth system

Academic field: Geology, Paleocology

Lecturer: Nguyen Thuy Duong

Phone: 0916445877

E-mail: ntduonga@vnu.edu.vn

Academic year:

COURSE DESCRIPTION

Credit points	2	
Level	Undergraduate	
Teaching time Location	University of Science and Technology of Hanoi	
Time Commitment	Lecture	22 hrs
	Exercises	5 hrs
	Practicals	3 hrs
	Total	30 hrs
Prerequisites	No	
Recommended background knowledge		
Subject description:	<p>This course will investigate the interrelationship among the components of the Earth System, including the atmosphere, oceans, biosphere, solid Earth, and humans. We will examine the fundamental processes that drive these systems such as movement of the earth and its consequences. In this course we also try to understand how life was formed and evolved through geological time, focusing on the human appearance and their impact to the Earth.</p>	
Objectives & Out-come	<p>- <i>Knowledge:</i></p> <ul style="list-style-type: none"> ❖ <i>Understand the functions of the complex Earth System and the environment it provides for life.</i> ❖ <i>Understand the history of life on Earth</i> <p>- <i>Skill:</i></p> <ul style="list-style-type: none"> ❖ <i>Working in group.</i> ❖ <i>Understand the steps of the scientific method.</i> 	
Assessment/ Evaluation	Exercise(s)	15_%
	Practicals	15_%
	Mid-term test	20_%
	Final exam	50_%
Prescribed Textbook(s)	[1] Earth science. CK-12 Foundation, 2009 – 1002 p.	



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COURSE CONTENTS & SCHEDULE

Class	Contents	Hours			Ref./Resources	Assignment(s)
		Lect.	Exr.	Prc.		
1	[1] Topic 1: <i>Earth Science and studying methods</i>	1			[1]: 1-76	
	[2]: Topic 2: <i>Earth in the Universe</i>	2			[1]: 899 - 1031	
2	[2] Topic 3: <i>Earth's minerals and Rocks</i>	2	1		[1]: 77-150	
3	[3] Topic 4: <i>Endogenous processes and their impact to Earth shape (Plate tectonic).</i>	2	1		[1]: 175-220	
4	[4] Topic 4: <i>Endogenous processes and their impact to Earth shape (Earthquake, Volcano).</i>	2	1		[1]: 221-318	
5	[5] Topic 5: <i>Exogenous processes and their impact to Earth shape (Fresh water & Ocean)</i>	2		1	[1]: 319-402	
6	[6] Midterm Exam	1				
	[7] <i>Exogenous processes and their impact to Earth shape (Atmosphere)</i>	1		1	[1]: 471 - 502	
7	[8] Topic 5: <i>Topic 5: Exogenous processes and their impact to Earth shape (Weathering, erosion and deposition processes).</i>	2		1	[1]: 503-596	
8	[9] Topic 6: <i>Earth's history</i>	2	1		[1]: 403-470	
9	[10] Topic 7: <i>Human and impact to the Earth</i>	2	1		[1]: 705-830	
10	[11] Review	3				

Notes:

- Abbreviation: *Lect.* (lecture), *Exr.* (Exercise), *Prc.* (Practise).
- Exercises may include assignment, reports, student's presentation, homework, class exercises ...for each class sessions
- Practicals mostly refer to Lab- work or outside practice such as field trip.

Reference Literature:

[1]. The Earth system. Lee R. Kump, James F. Kasting, Robert G. Crane. Pearson Prentice Hall, 2011 - 420 p.

[2]. The Earth system (3rd Edition). Lee R. Kump, James F. Kasting & Robert G. Crane, 2009.



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