



Faculty of Earth Sciences



Department of Mineral Resources & Rocks 3rd & 4th Years Program



The Geological Society
Accredited degree courses

VOLCANOLOGY

Course Name	Course ID	Prerequisite
<i>VOLCANOLOGY</i>	<i>EMR 321</i>	<i>EMR 304</i>

Time Table for Course Lectures

VOLCANOLOGY EMR (321)

Week	Topic
1	Introduction and course details Internet sites for the course
2	Physical properties of the magma Magma generation and ascent
3	Volcanic activity and plate tectonics Types and classifications of volcanic eruptions-1
4	Types and classifications of volcanic eruptions-2 Lavas-1
5	Lavas-2 Volcanoclastic rocks-1
6	Volcanoclastic rocks-2 Periodical exam-1& revision
7	Volcanic landforms-1 Volcanic landforms-2
8	Tutorial volcanic film Modern and ancient volcanic successions
9	Volcanic facies Periodical Exam-2 and revision
10	Volcanic successions in the Arabian Shield
11	Volcanism in Saudi Arabia and the Red Sea region
12	Mineralization associated with volcanism/ metals Essays written by students

13	Mineralization associated with volcanism/ Industrial rocks and minerals Volcanism and energy
14	Monitoring volcanic activity Volcanic risks
15	Volcanic risks General revision
	Final Exam

References:

Volcanoes, a Planetary Perspective, by Francis, P., 1995. Oxford [1]
University Press.

Volcanoes and Society, by Chester, D., 1993. London, Edward Arnold, [2]
351 p.

Volcanology, by, Williams, H., and McBirney, A.R., 1979. Freeman, [3]
Cooper & Co.