



Faculty of Earth Sciences



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



The Geological Society
Accredited degree courses

B. SC. PROJECT

Course Name	Course ID	Prerequisite
<i>B. SC. PROJECT</i>	<i>EMR 499</i>	<i>EMR 399</i>

Course Description

Each student will be assigned a field and laboratory project for at least three weeks. The student will prepare at its end a scientific report. It will be presented in a talk under the supervision of a staff member of the department. It is preferable to have the training in a specialized company.

Course Objectives

1. Students will have field training.
2. Student will be familiar with methods of sample collections.
3. Students will be acquainted with some laboratory techniques.
4. Students will know how to interpret data, correlate data with field observations, and getting conclusions.
5. Students will know how to present the data, write the subject of the project, and discuss conclusions in a scientific report.

General References for the Course: (Books/Journals...etc.)

Students in this course can read from vary depending on the subject of the project:

1. *An Introduction to Economic Geology and Its Environmental Impact*, by Evans M., 1997. Blackwell Science. 364 p.
2. *Analytical Methods in Geochemical Prospecting. Handbook of Exploration Geochemistry, Vol. 1*, by Fletcher, W.K., 1981. Elsevier, Amsterdam
3. *Economic Geology and Mineral Resources in the Kingdom of Saudi Arabia (3rd Edition)*, by Yamani, M.A., 1985. (In Arabic)
4. *Geology of the Arabian Peninsula: Shield Area of Western Saudi Arabia*, by

Brown G.F., Schmidt and Huffman A.C. JR., 1989, U.S.G.S., Prof. paper 560-A. P.163-188.

5. *Minerals Deposits in KSA*, by Al Shanty A. M. S., 2005. Centre of Scientific Publication, King Abdulaziz University, Jeddah, KSA, 312p. (In Arabic)
6. *Modern Analytical Geochemistry*, by Gill, R.C.O., 1997. Longman
7. *Physical Methods in Determinative Mineralogy*, by Zussman, 1977. Academic Press, London.
8. Reports and Periodicals: from the Saudi Arabia Geological Survey, Ministry of Mineral Resources, Maaden Company and specialized web sites.

List of URLs for this Course

- <http://www.sgs.org.sa/>
- <http://www.usgs.gov/>

Course Outcome

By the end of this course, students should be:

1. Student can be able well trained in the fieldwork related to some mineral deposits.
2. Student can be familiarize with methods of sample collections.
3. Student can be acquainted with some laboratory techniques and familiar with data interpretation.
4. Student can able to develop own thoughts about correlation of laboratory results and field observations.
5. Student can be acquainted with data presentation, writing, and discussing conclusions in a scientific report.