



Faculty of Earth Sciences



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



The Geological Society
Accredited degree courses

ORE MICROSCOPY

Course Name	Course ID	Prerequisite
<i>ORE MICROSCOPY</i>	<i>EMR 334</i>	<i>EMR 331</i>

Time Table for Practical Course

ORE MICROSCOPY (EMR 334)

Week	Name
1	Differences between Ordinary-Light, Polarized-Light, and Ore Microscopes ^[1]
2	Review for the Optics of Transmitted and Reflected Lights ^[1]
3	Preparation of Polished Surfaces. Types, Precautions, and Imperfections of Polished Surfaces (Sections & Slabs) ^[1]
4	Optical Properties of Ore Minerals in Ordinary Light ^[2]
5	Optical Properties of Ore Minerals in Polarized Light ^[2]
6	Optical Properties of Ore Minerals on Crossed-Nicols ^[2]
7	Chemical Etching and Measurement of Microhardness ^[1]
8	Native Elements in Polished Sections ^[2]
9	Sulphide Minerals in Polished Sections ^[2]
10	Oxide Minerals in Polished Sections ^[2]
11	Primary Ore Textures ^[2]
12	Secondary Ore Textures ^[2]
13	World Examples of Ore Assemblages From Different Settings ^[1,2]
14	Ore Microscopy of Some Saudi Ore Deposits
15	Practical Final Exams

References:

Introduction to Practical Ore Microscopy, by Ineson, P.R., 1989. [1]
Longman Publ., London, U.K.

Ore Microscopy and Ore Petrography (2nd ed.), by Craig, J.R., and [2]
Vaughan, D.J., 1994. John Wiley.