



Faculty of Earth Sciences



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



The Geological Society
Accredited degree courses

GEOLOGY OF MINERAL DEPOSITS

Course Name	Course ID	Prerequisites
<i>GEOLOGY OF MINERAL DEPOSITS</i>	<i>EMR 332</i>	<i>EMR 231 / EMR 241</i>

Time Table for Course Lectures

GEOLOGY OF MINERAL DEPOSITS (EMR 332)

Week	Topic
1	Introduction Mineral industry
2	Classification of ore deposits Methodology
3	Magmatic deposits 1. Chromite 2. Cu – Ni (Pt)
4	3. Fe – Ti deposits 4. Diamond
5	Pegmatites Metasomatic deposits
6	Carbonatites
7	Hydrothermal deposits Cornwall and Butte deposits
8	Prophyry Cu-deposits Unconformity U-deposits
9	Stratiform deposits 1. Sediment hosted
10	2. Volcanic rocks and tectonic environments 3. Volcanic hosted (VMS)
11	Strata bound deposits 1. MVT deposits

	2. Sandstone – type U deposits
12	Sedimentary ore deposits 1. Placers
13	2. Off-shore and fossil placer deposits 3. BIF'S & MIF'S
14	Mn deposits Residual deposits
15	Supergene enrichment General review
	Final Exam

References:

1. *Ore Geology and Industrial Minerals: An Introduction. 3rd ed.*, by Evans A.M., 1993.
2. Ore Geology Review (Journal).

GEOLOGY OF MINERAL DEPOSITS (EMR 332)

Time Table for Practical Course

Lab. #	Title
1	Bushveld deposits
2	Sudbury deposits
3	Alpine chromite
4	Iron-titanium oxides
5	Butte (Montana)
6	Malaysia Sn and Cu deposits
7	Volcanic-hosted VMS deposits
8	Mississippi-type deposits
9	Placer deposits
10	BIF'S deposits
11	Oolitic iron ore
12	Gossans & Supergene enrichment deposits
13	Video library (ore genesis)
14	Grade and tonnage calculations
15	General revision
16	Final Exam

Reference:

- [1] *Ore Geology and Industrial Minerals: An Introduction, 3rd ed.*, by Evans A.M., 1993.