

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Economic Geology
Course number	GEOL4330
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - The students knowledge of minerals, rocks and minerals constituent, economic raw materials names, natural factors metal detectors economic and raw materials, the distinction between economic and metal ores raw materials, chemical components, the extent to which in the areas of work and the economy

Intended Learning Outcomes

- | | |
|-----------------------------|---|
| Knowledge and Understanding | * Students ability to learn economic raw materials, knowledge of metal ores, and the relationship between rock and economic minerals, ores and the distinction between them and the names of economic ores and their relationship to the chemical groups to which they belong, and to know the most important economic raw materials which are useful for the countrys economy and their locations. |
|-----------------------------|---|

Course Contents

- 1 - A brief history of the use of minerals and the development of economic geology. Composition of mineral deposits and their formation. Processes of formation of mineral deposits (magmatic concentration, contact metasomatism, hydrothermal processes, metamorphism, and sedimentation. Classification of mineral deposits, alteration rocks, metamorphic processes, volcanic sedimentary processes. Mineral deposits and plate tectonics .Ore deposits in Palestine. Practical part Identification and description of the important of hand specimens of mineral deposits and their thin sections

Teaching and Learning Methods

- 1 - Lectures in the economic sphere raw materials, ores discuss the latest own publications and access to the latest publications about the global economic raw materials, scientific sliced images show the truth of natural raw materials under the microscope and special work reports for each of the raw materials

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
HALF first exam.	Seventh week	10
Have second exam.	Ten atheist week	10
Activity reports and lectures	Fourteenth week	10
Practical final exam	Fourteenth week	20
final exam	The sixteenth week	50

Books and References

Course note	Economic geology
	igneous and metamorphic
Essential books	economic minerals