

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Igneous& Metamorphic rocks
Course number	GEOL3312
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - Knowledge of metamorphic and igneous rocks and their properties and titles, presence, metal components, in the presence of nature and distinction of igneous rocks of metamorphic. Forms and structures of igneous rocks, the internal structure of the Earth, the chemical composition and the types of factors shift, depth ranges and degrees of transformation, tissues and structures of unstable rock

Intended Learning Outcomes

Knowledge and Understanding	* The students ability to know its origin and Msmyate rock and mineral composition and how its formation in nature, it was in the mountains, discrimination igneous rocks from metamorphic.
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Course Contents

1 - Study with rock forming minerals. Igneous rocks: forms of igneous rocks, chemical and mineralogical composition of igneous rocks, bases classification of nomenclature of igneous rocks. Metamorphic rocks :factors and kinds of metamorphism, agent of metamorphism, facies and grades of metamorphism, textures and structure of metamorphic rocks, regional, thermal and cataclastic metamorphism, bases classification and nomenclature of metamorphic rocks. Practical part The practical study includes and description of hand specimens and thin sections of important igneous and metamorphic rocks. Teaching methods
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Students Assessment

Assessment Method	TIME	MARKS
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	Seventh week	50

Books and References

Course note	Petrology
Essential books	igneous rocks