Course Specifications

General Information

Course name	Sedmentary Rocks & Sedmentation
Course number	GEOL3313
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - Studying the depositional environments and the factors effect in the formation of sedimentary rocks

2 - Studying the different types of sedimentary rocks; their characteristics and composition

Intended Learning Outcomes

Knowledge and Understanding	* To have enough knowledge about the different types of sedimentary rocks and their characteristics * Evaluation and excavation the economic values of the sedimentary rocks

Course Contents

1 - (The relation of sedimentation and other Earth sciences – Sedimentary cycle – Weathering – Porosity and permeability of rocks and their measurement – Classification of porosity – Transportation and sedimentation – Primary structures – Classification of sedimentary rocks (Clastic, chemical and organic sedimentary rocks

2 - (Practical part Roundness and its measurement – Sieve analysis – Description of sedimentary rocks (hand specimens and thin-sections

Teaching and Learning Methods

1 - Explanation and discussion with presentation devices

2 - Field trips and experimental labs

3 - Exercises in La

Students Assessment

Assessment Method	TIME	MARKS
Final term exam	In seventh week	10
Second term exa	In eleventh week	10
Exercises and practical assignments	lab and field trips	10
Final practical exam	In fourteenth week	20
Final term exam	In sixteenth week	50

Books and References

Essential books	Boggs. S.J. 1987. Principlees of Sedimentology and Stratigraphy. Macmillan Publishing Campany, New Yourk
Recommended books	Nichols, G. 2009. Sedimentology and Stratigraphy. Wiley-Blackwell, Chichester, England
	Selley, R.C. 2000. Applied Sedimentology. Academic Press, New Yor
	Pittijohn, E.J. 1985. Sedimentary Rocks. Harper & Row, Publisher, New York
	Tucker, M.T. 2003. Sedimentary Rocks in the Field. John Wiley & Sons Ltd., Chichester, England
	Lewis, D.W. 1984. Practical Sedimentology. Hutchinson Ross Publishing Company, New York