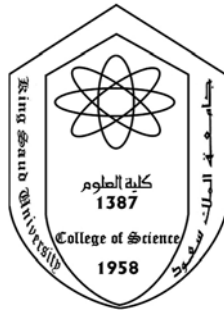


King Saud University
College of Science
Geology and Geophysics
Department.



جامعة الملك سعود

Paleoecology (GEO 342)

Academic Year 1431- 1432H (2010 – 2011)

Instructor: Dr. Osama Mohamed Kaoud Kassem

Contributor: Mr.

Room: AB64 Office Telephone: 4676351

Office Hours: All Working days from 11 to 12 am

1 Topics to be Covered		
Topic	No of Weeks	Contact hours
Paleoclimatology, Paleoenvironment, Paleogeography	1	3
Sedimentary environments: Physical parameters, Chemical parameters, Biological parameters	1	3
Facies, Sedimentary facies parameters	1	3
Mode of life (Locomotion, Nutrition, Reproduction, Growth, Behaviour)	1	3

Abiotic factors: Configuration of the earth's surface, Light, Temperature	1	3
Salinity, Oxygenation of water, Currents (Global currents, Local currents) Depth & Bathymetry	1	3
Nutrient elements, Substrate, Water currents (Global currents, Local currents), Water turbidity	1	3
Biotic factors: Competition, Symbiosis, Parasitism, Predator prey - Paleotemperature measurement	1	3
Seasonal cyclicity – Fossiliferous Horizons	1	3
Association of organisms: Palaeobiocoenosis, Thanatocoenosis – Environment Mode of life of fossils -	1	3
General characteristics of Continental environments	1	3
Marine environments	1	3
Classification of Sedimentary environments	1	3
Paleoenvironments of bygone association	1	3
Paleoenvironments identification	1	3

Schedule of Assessment Tasks for Students During the Semester			
Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	1st exam	After the 6 th week	10%
2	12 lab reports	Weekly	6%
3	Mid-term exam	After the 10 th week	10%
4	1st lab exam	After the 6 th	12%

		week	
5	2nd lab exam	Last week	12%
6	Final exam	As per university schedule	50%

Text Books- References:

- * Dodd, J.R., (1981): **Paleoecology Concepts and applications**
- * Ager, D.V., (1963): **Principale of paleoecology**
- * Krebs, J.R., and N.B. Davies, (1978): **Behavioral ecology**
- * Reyment, R.A., (1971): **Introduction to quantitative paleoecology**

N.B.:

- ♣ *1st semester course starting date on Sat. 16/10/1431 corresponding to 25/9/ 2010.*
- ♣ *- Al Adha vacation starts on Wed. 4/12/1431 – 10/11/2010.*
- ♣ *- Commencing the semester study session by Mon. 16/12/1432 - 22/11/2010.*
- ♣ *- 1st semester exams will start on 18/2/1432 – 22/1/2011.*
- ♣ *- Med year vacation will start by Wed. on 29/2/1432 -2/2/2011.*
- ♣ *- Commencing date of the Second semester session will be on Sat. 9/3/1432 -*