



جامعة الموصل
كلية العلوم
قسم علوم الارض
المختبرات



مختبرات المرحلة الأولى:

المادة: Computer

رمز المختبر: 207

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1. Managing Files using Windows O. S
Week 2	Lab 2. Communication technology Web design and browsing
Week 3	Lab 3. Word (interface language)
Week 4	Lab 4. Word (files and editing)
Week 5	Lab 5. Word (format features)
Week 6	Lab 6. Word (table and outcome)
Week 7	Lab 7: Power point (interface language)
Week 8	Lab 8. Power point (menus and slide design)
Week 9	Lab9: Power point (animation effects)
Week10	Lab 10: Excel (interface language)
Week 11	Lab 11: Access (basic practice)
Week 12	Lab 12: Project Work

المشرفين على المختبر: Dr. Adil Murad Awad ، Dr. Sanad Abdulelah Mahmood

المادة: General Geology

رمز المختبر: 333

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1. over view of geology.
Week 2	Lab 2. How identification of mineral.
Week 3	Lab 3. Physical properties of minerals.
Week 4	Lab 4. Chemical properties of minerals.
Week 5	Lab 5. Types of rocks in the nature.
Week 6	Lab 6. Properties of Igneous rocks .
Week 7	Lab 7: classification of Igneous rocks.
Week 8	Lab 8. Properties of Metamorphic rocks
Week 9	Lab9: classification of Metamorphic rocks.
Week10	Lab 10: Properties of Sedimentary rocks.
Week 11	Lab 11: classification of Sedimentary rocks
Week 12	Lab 12: summery

المشرفين على المختبر: Dr. Falah Abed Al-Miamary ، Dr. Rafee Ibrahim Al-Humidi

مختبرات المرحلة الثانية:

المادة: Micropaleontology

رمز المختبر: 233

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Shape, measurements of carapace and valves.
Week 2	Lab 2: Orientation of carapace and valves.
Week 3	Lab 3: External features, external structures.
Week 4	Lab 4: Internal features, internal structures.
Week 5	Lab 5: Inner lamella, outer lamella.
Week 6	Lab 6: Hinge line.
Week 7	Lab 7: Description of some index ostracode species.
Week 8	Lab 8: Preparing of Calcareous nannofossils slides.
Week 9	Lab9: Coccoliths shape description.
Week10	Lab 10: Coccoliths orientation.
Week 11	Lab 11: Element arrangement.
Week 12	Lab 12: Description of some index nannofossils species

المشرفين على المختبر: Dr. Omar Ahmed Mawlood ، Dr. Ibrahim Younis Ahmad

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: part of the polarized microscope
Week 2	Lab 2: general explanation of the optic properties of minerals.
Week 3	Lab 3: general explanation of the optic properties of minerals.
Week 4	Lab 4: isotropic minerals.(garnet ,fluorite , spinel ,neosean,.....)
Week 5	Lab 5: un axial minerals(quartz, apatite ,zircon,
Week 6	Lab 6: uni axial minerals9tuormaline ,calcite
Week 7	Lab 7: bi axial minerals
Week 8	Lab 8:. bi axial minerals , metamorphic minerals
Week 9	Lab9: sign of elongation and optic sign
Week10	Lab 10: determine the slow and fast vibration direction
Week 11	Lab 11: interference figure of uni axial minerals
Week 12	Lab 12: interference figure of bi axial minerals.

المشرفين على المختبر: Dr. Sahar A.Qasim ، Omar saif .

المادة: Sedimentology

رمز المختبر: 101

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Mechanical analysis of pebble shapes, (Introduction).
Week 2	Lab 2: Measuring the grain size of pebbles Using Vernia.
Week 3	Lab 3: Determine pebble shape using zing diagram (Exercise 1).
Week 4	Lab 4: Determine pebble shape using Sneed and Folk diagram (Exercise 2).
Week 5	Lab 5: Calculate mathematical roundness and sphericity (Exercise 3).
Week 6	Lab 6: Grain-size analysis of sand and sandstone (introduction).
Week 7	Lab 7: Sieve analysis of sand and sandstone in lab. (Exercise 1).
Week 8	Lab 8: Sieve analysis of sandstone (Exercise 2).
Week 9	Lab9: Sieve analysis of sandstone (Exercise 3).
Week10	Lab 10: Paleocurrent analysis (Introduction), (Exercise 1).
Week 11	Lab 11: Paleocurrent analysis (Exercise 2).
Week 12	Lab 12: Paleocurrent analysis (Exercise 2).

المشرفين على المختبر: Dr. Ahmed N. Thanon ، Dr. Falah Abed Al-Miamary

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduction of stereographic technique. Theoretical basis. Schmidt or Lambert equal-area net. Stereographic or Wulff net.
Week 2	Geological structures of planar type Geological structures of linear type. Precise method of plotting steps of line and planes on equal area net
Week 3	Plotting a line that lies in a plane.
Week 4	Determining the angle between two lines. Line of intersection of two planes
Week 5	True strike and dip from two apparent dips. True dip from strike and apparent dip. Attitude of intersection of two planes.
Week 6	Determining the angles between two planes. Pole of plane.
Week 7	Determining the angles between a line and a plane. Bisecting the angles between two lines.
Week 8	Bisecting the angles between two planes. Determining the orthographic projection of a line on a plane.
Week 9	Use of equal area net involving rotation. Rotation of line. Projection of cone.
Week 10	Small circle rotation of planes. Two tilt problems.
Week 11	Rotation of drill-core data. Using the data from the three drill holes shown below, determine the attitude of bedding.
Week 12	Stereographic analyses of folded rocks. Beta and Pi diagrams
Week 13	Stereographic analyses and classification of fractures. Paleostress analyses.
Week 14	Preparatory week before the final Exam.

المشرفين على المختبر: Dr. Saddam Essa Mustufa ، Dr. Rabeea Kh. Znad

Mahmood Abdulhaq Alsumaidai

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Orientation, Syllabus, and Fundamental particles
Week 2	Lab 2: calibration of gravimeter.
Week 3	Lab 3: Draft Correction
Week 4	Lab 4: Bouguer anomaly correction
Week 5	Lab 5: Free air correction
Week 6	Lab 6: Latitude correction
Week 7	Lab 7: bouguer correction
Week 8	Lab 8: terrain correction
Week 9	Lab9: Splitting bouguer anomaly techniques
Week10	Lab 10: magnetic daily distribution.
Week 11	Lab 11: Magnetic distribution of earth.
Week 12	Lab 12: interpretation of magnetic data.

Dr. Bashar Mahmood Aziz ، Dr. Adil Murad Awad المشرفين على المختبر:

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Introduction
Week 2	Rainfall analysis.
Week 3	Morphometric analysis.
Week 4	Filtration capacity measurment
Week 5	Evaporation measurment
Week 6	River flow analysis
Week 7	Hydrograph
Week 8	Drawing groundwater levels
Week 9	Flow net
Week10	Pumping test measuring
Week 11	Classification of ground water modeling
Week 12	Hydrogeochemistry
Week 13	Drilling engineer

Dr. ، Dr. Mohammed sheet Mohammed Ramzi Taka المشرفين على المختبر:

Dheyaa Ghawi Salih

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Element distribution in igneous rocks (evaluation of Goldsmidt rules).
Week 2	Lab 2: The origin relationship of igneous rock from the chemical analysis.
Week 3	Lab 3: Distribution of Cr and Ni in basic volcanic rocks.
Week 4	Lab 4: Distribution of Zr and Hf in acidic igneous rocks.
Week 5	Lab 5: Aragonite stabilization in ancient limestone.
Week 6	Lab 6: Using the geochemical data as a stratigraphical correlation. . [18 hrs .
Week 7	Lab 7: The geochemistry of phosphorites.
Week 8	Lab 8:. Calculation of the salt chemical formula in the lakes.
Week 9	Lab9: Geochemistry of lakes.
Week10	Lab 10: Oil migration.
Week 11	Lab 11: Eh-pH diagram.
Week 12	Lab 12: Distribution of iron phases on Eh-pH diagram.

M. Ann Abdulsattar Ismail، Dr. Flyah Hassan Abbas المشرفين على المختبر: