

Introduction

The students will be able to acquire theoretical knowledge about rocks; compare different types of rocks and strata; collect the rock samples from field; evaluate the strata formation and rock formation.

Course Objectives

To understand about rocks.

To understand about strata.

Course Contents:

Process of sedimentation; sedimentation under different environments; stratification and breaks in the record; Rocks, Types of rocks; sedimentary rock nomenclature; correlation; stratigraphic system.

Teaching-Learning Strategies

Teaching will be a combination of class lectures, class discussions, and group work. Short videos /films will be shown on occasion.

Assignments

The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination

Sessional Work: 25 marks

Midterm Exam: 35 marks

Final term Exam: 40 marks

Books recommended

1. John Suppe, 2005. Principle of Structural Geology. Prentice Hall inc. University of Houston.
2. David Nash, 2007. Geochemical sediments and landscapes. Black Well publishing (University of Brighton) and Sue McLaren (University of Leicester).
3. Gary Michols, 1998. Sedimentology and Stratigraphy, Black Well publishing.
4. Gorshkow, G. and Kushova. A., 1967. Physical Geology. Mir Publishers Moscos, U.S.S.R.
5. David T. Allison, 2015. Structural Geology Laboratory Manual (4th Ed.). University of South Alabama.

UZO-454 Elements of Stratigraphy & Structural Geology (Lab.)

Cr. (1)

Introduction

The laboratory component focuses on identification of rocks, minerals and sedimentary strata.

Course Objectives

To identify rock samples.

To identify minerals.

To identify rock strata.

Course Contents:

Collection of rock samples from the field, their preparation and identification.

Studies of sedimentation and stratification. Studies of Rocks (igneous, sedimentary and metamorphic rocks). Study of minerals.

Teaching-Learning Strategies

Teaching will be a combination of class lectures, class discussions, and group work. Short videos /films will be shown on occasion.

Assignments

The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination

Sessional Work: 25 marks

Midterm Exam: 35 marks

Final term Exam: 40 marks

Books recommended

1. John Suppe, 2005. Principle of Structural Geology. Prentice Hall inc. University of Houston.
2. David Nash, 2007. Geochemical sediments and landscapes. Black Well publishing (University of Brighton) and Sue McLaren (University of Leicester).
3. Gary Michols, 1998. Sedimentology and Stratigraphy, Black Well publishing.
4. Gorshkow, G. and Kushova. A., 1967. Physical Geology. Mir Publishers Moscos, U.S.S.R.
5. David T. Allison, 2015. Structural Geology Laboratory Manual (4th Ed.). University of South Alabama.