



جامعة الحكمة إلورن نيجيريا

AL-HIKMAH UNIVERSITY, ILORIN - NIGERIA

Adeta Road, Adewole Housing Estate, P.M.B.1601, Ilorin

FACULTY OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF CHEMICAL AND GEOLOGICAL SCIENCES

B.SC GEOLOGY PROGRAMME

2019/2020 ACADEMIC SESSION

COURSE OUTLINE FOR:

COURSE CODE: GEM 102

COURSE TITLE: INTRODUCTION TO GEOLOGY II

2 CREDIT UNITS: 12 LECTURE PERIODS (TUESDAYS 2 - 4PM)

PRACTICAL CLASSES TO BE ANNOUNCED PERIODICALLY

COURSE LECTURER: DR. I. A. OKUNLOLA, 08033139881, iaokunlola@alhikmah.edu.ng

Week	Date	Topic	Highlights
1.	24/2/2020	Continental Drift, Sea floor, Spreading Plate Tectonics (Part 1)	Definition of plate tectonic. Tectonic theories, Earth's magnetic field and paleomagnetism
2.	02/03/2020	Continental Drift, Sea floor, Spreading Plate Tectonics (Part 2)	Curie temperature, Changing earth's magnetic pole, Sea floor spreading,
3.	09/03/2020	Continental Drift, Sea floor, Spreading Plate Tectonics (Part 3)	Plate tectonic, Types of plate boundaries, Hotspots and plate velocities
	16/03/2020	Continuous Assessment No. 1	
4.	16/03/2020	Geologic Time (Part 1)	Concept of relative age and numeric age, Principle of stratigraphy, Unconformities, Stratigraphic formation and their correlation
5.	23/03/2020	Geologic Time (Part 2)	Geologic column, Numeric age
	30/03/2020	Continuous Assessment No. 2 and Term Paper Assignment	
6.	30/03/2020	Oceans and coasts (Part 1)	Oceans and salient facts ocean sea floor oceanic, Oceanic Islands and seamounts passive and active

			continental margins, Ocean water, Ocean circulation and tides, Ocean waves, Waves erosion
	06/04/2020	Submission of Term Paper Assignment	
7.	06/04/2020	Oceans and coasts (Part 2)	Wave refraction Coastal sediment transport Coastal deposits and land forms Depositional features along coasts, Coastal variability, Coastal Problems, Protection from shoreline erosion
	13/04/2020	Continuous Assessment No. 3	
8.	13/04/2020	Deserts (Part 1)	Origin and type of deserts, Surface processes in deserts wind erosion and deposition, Sediment transportation by wind deposits,
9.	20/04/2020	Deserts (Part 2)	Wind deposits, Sand dunes, Dust in ocean sediments, Desertification
10.	27/04/2020	Continuous Assessment No. 4	
11.	04/05/2020	Our changing planet (Part 1)	Earth's complex system, Awareness of impact on environments, Solar radiation and the atmosphere, Trace gases, Breakdown of ozone layer, Greenhouse gases, Carbon dioxide in the atmosphere
	11/05/2020	Continuous Assessment No. 5	
12.	11/05/2020	Our changing planet (Part 2)	Volcanic effects on changing atmosphere and atmospheric temperature, Paleoclimatology, Eocene global climate change, Effects of global warming.