

Semester and Level	Level 5 Semester 1					
Course Code	PHU5305					
Course Title	Essentials of Geology					
Credit value	3					
Core/Optional	optional					
Prerequisites	none					
Hourly Breakdown	Theory		Practical hours	Independent Learning	Assessments	Total hrs
	19 Sessions X 2 = 38 hrs	5 DS x 2 hrs = 10 hrs	Lab work 6 hrs x 4 days = 24 hrs	19 Sessions (x 3) =57 hrs Online /Audio-visual materials and other learning resources = 20 hrs	Continuous Assessments (2 CA) = 2 hrs	151 hrs
Course Aim/s	<p>The aim of this course unit is to give an overall knowledge to provide our students with;</p> <ul style="list-style-type: none"> • a knowledge of the history of discoveries and ideas that have contributed to our present understanding of the Earth and the planetary system; • an understanding of interactions of the solid Earth with the hydrosphere, atmosphere, and biosphere, as well as the effects of those interactions on mankind and the environment; • a knowledge of the physical properties of minerals and formation and textures of igneous, metamorphic, and sedimentary rocks; • the ability to work in a team environment and • the necessary skills required for employment after graduation 					
Course Learning Outcomes (CLO):	<p>At the completion of this course student will be able to learn:</p> <ol style="list-style-type: none"> 1. an understanding of interactions of the solid Earth with as well as the effects of those interactions on mankind and the environment; 2. learn the materials of Earth's crust including rocks and minerals 3. learn how to identify the Earth materials at the laboratory 					
Content (Main topics, sub topics)	<p>Unit 1 – Earth Processes Earth processes, explores the geologic processes of the Earth through the study of such topics as history of the Earth, structure and composition of the Earth, plate tectonics.</p> <p>Unit 2 Earth Materials The study of Earth materials, such as minerals and rocks that allow geologists to understand the history of the Earth.</p> <p>Unit 3 – Practical Work Book on Earth Material: Identification of Minerals and rocks</p>					

Teaching-Learning methods	<p><i>Self-learning/independent learning</i></p> <ul style="list-style-type: none"> ▪ <i>Learning the course material (print, AV, online)</i> ▪ <i>Additional reading materials/ recommended reading</i> ▪ <i>OUSL Course material in print;</i> <p><i>Compulsory contact sessions</i></p> <ul style="list-style-type: none"> ▪ <i>Field visits/industrial visits</i> <p><i>Non-compulsory contact sessions</i></p> <ul style="list-style-type: none"> ▪ <i>Day schools (discussion classes)</i> <p><i>Online components and Continuous assessments</i></p>	
Assessment Strategy	Overall Continuous Assessment Mark (OCAM)	Final Assessment (FE)
	Continuous Assessment (CA) 70 % of two NBT of two hour duration Practical Assessment (PA) 30 %	Final Evaluation Theory: 100 % of two hour duration
	Overall mark = 40 % OCAM + 60 % Final Examination	
Recommended Reading	<ol style="list-style-type: none"> 1. Ballard, R.D., (1988). Exploring Our Living Planet (revised ed.): Washington, D.C., National Geographic Society, 366 p. 2. Fifield, Richard, ed., (1985). The Making of the Earth: New York, Blackwell (New Scientists Guide), 336 p. 3. Press, Frank, and Siever, Raymond, (1974). Earth: San Francisco, W.H. Freeman, pp. 649 4. Deer, W.A., Howie, R.A. and Zussman, J. (1980). Rock Forming Minerals (Seven Volumes) Longmans, London, 696pp (ISBN 0-582-30094-0) 5. Klein, C. and Hurlbut, C.S. (1993). Manual of Mineralogy (After J.D. Dana, 21st edition). John Wiley, (New York). 	