

**CURRICULUM FOR B.Sc. (HONOURS) GEOLOGY PROGRAMME****100 LEVEL HARMATTAN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG101	<i>Introduction to Geology I</i>	-	2	C
BIO 101	<i>Basic Biology I</i>	-	3	C
BIO 107	<i>Experimental Biology I</i>	-	1	C
CHM 101	<i>General Chemistry I</i>	-	3	C
CHM 107	<i>Experimental Chemistry I</i>	-	1	C
MTH 101	<i>General Mathematics I</i>	-	3	C
PHY 101	<i>General Physics I</i>	-	3	C
PHY 107	<i>Experimental Physics I</i>	-	1	C
STA 101	<i>Introduction to Statistics</i>	-	2	C
GNS 101	<i>Use of English I</i>	-	2	R
GNS103	<i>Use of Library</i>	-	1	R
<b>TOTAL</b>			<b>22</b>	

**100 LEVEL RAIN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG 102	<i>Introduction to Geology II</i>	-	2	C
BIO 102	<i>Basic Biology II</i>	-	3	C
BIO 108	<i>Experimental Biology II</i>	-	1	C
CHM 102	<i>General Chemistry II</i>	-	3	C
CHM 108	<i>Experimental Chemistry II</i>	-	1	C
MTH 102	<i>General Mathematics II</i>	-	3	C
PHY 102	<i>General Physics II</i>	-	3	C
PHY 108	<i>Experimental Physics II</i>	-	1	C
STA 114	<i>Statistical Computing</i>	-	2	C
GNS 102	<i>Use Of English II</i>	-	2	R
GNS 104	<i>Nigerian Peoples and Culture</i>	-	2	R
<b>TOTAL</b>			<b>23</b>	

**200 LEVEL HARMATTAN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG 201	<i>Physical Geology</i>	GLG 102	2	C
GLG 203	<i>Crystallography and Systematic Mineralogy</i>	GLG 102, GLG201	3	C
GLG 207	<i>Introduction to Geological Mapping and Geological Map Interpretation</i>	GLG 102	3	C
CHM 205	<i>Physical Chemistry</i>	-	2	C
CHM 207	<i>Inorganic Chemistry</i>	-	2	C
CHM 215	<i>Analytical Chemistry</i>	-	2	C
CSC 201	<i>Structured Programming</i>	-	3	C
STA 221	<i>Statistics for Physical Science and Engineering</i>	-	3	C
GNS 203	<i>Introduction to Entrepreneurial Skills</i>	-	2	R
GNS 211	<i>Basic French</i>	-	2	R
<b>TOTAL</b>			<b>24</b>	

**200 LEVEL RAIN SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>PRE-REQUISITE</b>	<b>UNITS</b>	<b>STATUS</b>
GLG 204	<i>Mineral Resources</i>	GLG 102, GLG 201	2	C
GLG 206	<i>Introduction to Petrology</i>	GLG201	3	C
GLG 208	<i>Introduction to Surveying</i>	-	2	C
GLG 210	<i>Invertebrate Paleontology</i>	BIO 102	3	C
GLG 212	<i>Optical and Determinative Mineralogy</i>	GLG 203	3	C
MTH 222	<i>Elementary Differential Equation 1</i>	-	3	C
PHY 214	<i>Physics of Solid Earth</i>	-	2	C
GNS 204	<i>Logic and Philosophy</i>	-	2	R
GNS 212	<i>Introduction to Information and Communication Technology</i>	-	2	R
<b>TOTAL</b>			<b>22</b>	

**300 LEVEL HARMATTAN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG 317	<i>Structural Geology</i>	GLG 204	3	C
GLG 319	<i>Advanced Geological Map Interpretation</i>	GLG 204	2	C
GLG 321	<i>Sedimentology and Sedimentary Petrology</i>	GLG 201	3	C
GLG 325	<i>Metamorphic Petrology</i>	GLG 201	3	C
GLG 327	<i>Fundamentals of Hydrogeology</i>	GLG 201	2	C
GLG 329	<i>Photogeology and Remote Sensing</i>	-	2	C
	<b><i>Elective (One of the following)</i></b>			
GLG 315	<i>Advanced Mineralogy</i>	GLG 203	3	E
GLG 323	<i>Mining Geology and Drilling</i>	-	2	E
	<i>Any other one (1) free elective</i>	-	2	E
<b>TOTAL</b>			<b>17/18</b>	

**300 LEVEL RAIN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG 318	<i>Geostatistics</i>	STA 101	2	C
GLG 320	<i>Principles of Isotope Geology and Geochronology</i>	-	2	C
GLG 322	<i>Principles of Geochemistry</i>	GLG 201	2	C
GLG 324	<i>Igneous Petrology</i>		3	C
GLG 326	<i>Stratigraphic Principles and Practice</i>	GLG 307	3	C
GLG 328	<i>Geophysical Method I</i>	GLG311	3	C
GLG 330	<i>Geological Mapping Techniques</i>	GLG 205, GLG 303,	3	C
GLG 332	<i>Marine Geology</i>	-	2	C
	<i>Any other one (1) free elective</i>	-	2	E
<b>TOTAL</b>			<b>20/22</b>	

**400 LEVEL HARMATTAN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG 417	<i>Micropaleontology</i>	GLG 102 & GLG201	2	C
GLG 419	<i>Geophysical Methods II</i>	GLG 311 & GLG 312	2	C
GLG 421	<i>Petroleum Geology</i>	GLG 307 & GLG 310	3	C
GLG 423	<i>Basin analysis and Sequence Stratigraphy</i>	-	2	C
GLG 425	<i>Economic Geology</i>	GLG 204 & GLG 205	3	C
GLG 427	<i>Global Tectonics</i>		2	C
GLG 429	<i>Environmental Geology</i>	-	2	C
GLG 497	<i>Seminar in Geology</i>	-	2	C
<b>Restricted Elective (One of the following)</b>				
GLG 431	<i>Software Applications in Geophysical Analysis</i>		2	E
GLG 433	<i>Quaternary Geology</i>		2	E
	<i>Any other one (1) free elective</i>	-	2	E
<b>TOTAL</b>			<b>20</b>	

**400 LEVEL RAIN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Units</b>	<b>Status</b>
GLG 414	<i>Engineering Geology</i>	-	2	C
GLG 416	<i>Geology of Nigeria</i>	GLG 205	2	C
GLG 418	<i>Depositional Environment and Sedimentary Basins of Africa</i>		2	C
GLG 420	<i>Independent Mapping Exercise</i>	-	3	C
GLG 499	<i>Project in Geology</i>	-	6	C
<b>Elective (Two of the following)</b>				
GLG 422	<i>Geochemical Methods in Mineral Exploration</i>	GLG 306	2	E
GLG 424	<i>Geology of Industrial Minerals</i>	GLG204	2	E
GLG 426	<i>Precambrian Geology of Africa</i>		2	E
GLG 428	<i>Paleoecology</i>		2	E
<b>TOTAL</b>			<b>19</b>	

**B.Sc. Geology CCMAS Curriculum****100 LEVEL HARMATTAN SEMSETER**

<b>Course Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Status</b>	<b>LH</b>	<b>PH</b>
GST 111	Communication in English	2	C	15	45
BIO 101	General Biology I	2	C	30	–
CHM 101	General Chemistry I	2	C	30	–
CHM 107	General Chemistry Practical I	1	C	–	45
COS 101	Introduction to Computing Sciences	3	C	30	45
GEY 101	Introduction to Geology I	2	C	15	45
MTH 101	Elementary Mathematics I	2	C	30	–
PHY 101	General Physics I	2	C	30	–
PHY 107	General Physics Practical I	1	C	–	45
STA 111	Descriptive Statistics	3	C	45	0
	<b>Total</b>	<b>20</b>			

**100 LEVEL RAIN SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Status</b>	<b>LH</b>	<b>PH</b>
GST 112	Nigerian Peoples and Culture	2	C	30	-
BIO 102	General Biology II	2	C	30	
CHM 102	General Chemistry II	2	C	30	-
CHM 108	General Chemistry Practical II	1	C	-	45
GEY 102	Introduction to Geology II	2	C	15	45
MTH 102	Elementary Mathematics II	2	C	30	-
PHY 102	General Physics II	2	C	30	-
PHY 108	General Physics Practical II	1	C	-	45
STA 122	Statistical Computing	3	C	15	30
	<b>Total</b>	<b>17</b>			