

**Faculty of Science
University of Peradeniya**

**B.Sc. General and Honours Study Programme in Geology
Course Units Offered**

1000 LEVEL - GEOLOGY					
Course Code	Course Title	No. of Credits	Pre-requisites	Compulsory for	
				General Degree	Honours degree
GEO 1013	Earth Processes	3		√	√
GEO 1021	Earth Processes Laboratory	1	GEO 1013	√	√
GEO 1033	Earth Materials	3		√	√
GEO 1041	Earth Materials Laboratory	1	GEO 1033	√	√
	Total	08		08	08

2000 LEVEL - GEOLOGY					
Course Code	Course Title	No. of Credits	Pre-requisites	Compulsory for	
				General Degree	Honours degree
GEO 2013	Optical Mineralogy	3	GEO 1021; GEO 1041	√	√
GEO 2023	Introductory Petrology	3	GEO 1021; GEO 1041	√	√
GEO 2032	Geochemistry	2	GEO 1021; GEO 1041		
GEO 2042	Geophysics	2	GEO 1021; GEO 1041		
GEO 2052	Economic Geology	2	GEO 1021; GEO 1041	√	√
GEO 2062	Plate Tectonics and Geomorphology	2	GEO 1021; GEO 1041		
GEO 2072	Soil and Rock Mechanics	2	GEO 1021; GEO 1041		
GEO 2082	Photogeology	2	GEO 1021; GEO 1041		
GEO 2092	Introductory Structural and Field Geology	2	GEO 1021; GEO 1041	√	√
	Total	20		10	10

3000 LEVEL - GEOLOGY

Course Code	Course Title	No. of Credits	Pre-requisites	Compulsory for	
				General Degree	Honours degree
GEO 3012	Hydrology	2			
GEO 3022	Geology of Sri Lanka	2		√	√
GEO 3032	Metamorphic Petrology	2	GEO 2013 GEO 2023	√	√
GEO 3042	Igneous Petrology	2	GEO 2013 GEO 2023	√	√
GEO 3052	Sedimentary Petrology	2	GEO 2013 GEO 2023	√	√
GEO 3062	Applied Geophysics	2	GEO 2042		
GEO 3072	Remote Sensing and Geographical Information Systems (GIS)	2			
GEO 3083	Structural Geology and Tectonics	3	GEO 2013; GEO 2023; GEO 2092	√	√
GEO 3093	Analytical Techniques in Geology	3	GEO 2032		
GEO 3102	Hydrogeology	2			
GEO 3112	Environmental Geology	2			
GEO 3123	Engineering Geology	3	GEO 2072		
GEO 3132	Advanced Economic Geology	2	GEO 2013; GEO 2023; GEO 2052		
GEO 3142	Gemmology	2	GEO 2013; GEO 2023		
GEO 3152	Field Geology	2	GEO 2013; GEO 2023; GEO 2092	√	√
	Total	33		13	13

4000 LEVEL - GEOLOGY

Course Code	Course Title	No. of Credits	Pre-requisites	Compulsory for	
				General Degree	Honours degree
GEO 4012	Applied Hydrogeology	2	GEO 3102		
GEO 4022	Isotope Geology	2			
GEO 4032	Surveying and Leveling	2			
GEO 4042	Scientific Writing and Seminar	2			√
GEO 4052	Field Geology Assessment	2	GEO 3152		√
GEO 4062	Seismology	2			
GEO 4073	Oceanography and Quaternary Geology	3			
GEO 4082	Exploration and Mining Geology	2			
GEO 4092	Petroleum Geology	2	GEO 3052		
GEO 4103	Advanced Metamorphic Petrology	3	GEO 3032		†
GEO 4113	Advanced Igneous Petrology	3	GEO 3042		†
GEO 4123	Advanced Sedimentary Petrology	3	GEO 3052		†
GEO 4132	Advanced Engineering Geology	2	GEO 3123		
GEO 4998	Research Project	8			√
SCI 4003	Industrial Training	3			√
	Total	41			18

† Only One of these course units is compulsory