

COURSE SUMMARY TABLE 2019-2020

FIRST YEAR

SEMESTER I (1st)

Module code	Compulsory Modules	Hours/Week		ECTS credits
		L ¹	L/Y ²	
GEOL_001	Mineralogy I	2	3	6
GEOL_002	Planet Earth	3	2	6
GEOL_003	Principles of Oceanography	2	2	5
GEOL_004	Chemistry	3	1	5
GEOL_005	Mathematics-Statistics	2	2	5
GEOL_082	Studying in the Department of Geology	2		2

Module code	Elective Modules (Selection of one course)	Hours/Week		ECTS credits
		L	L/Y	
GEOL_006	School Psychology	3		3
GEOL_007	English for Geology I	3		3
GEOL_008	Elements of Zoology and Botany	3		3

Total: 30

SEMESTER II (2nd)

Module code	Compulsory Modules	Hours/Week		ECTS credits
		L	L/Y	
GEOL_009	Mineralogy II	2	3	6
GEOL_010	Evolution of life - Palaeontology	2	2	5
GEOL_011	Geomorphology	2	1	4
GEOL_012	GIS and Remote Sensing in Applied	2	2	5
GEOL_013	Physics	4		4
GEOL_014	Field Work I			3

Module code	Elective Modules (selection of one course)	Hours/Week		ECTS credits
		L	L/Y	
GEOL_015	School Counseling	3		3
GEOL_016	English for Geology II	3		3
GEOL_017	Basic Computer Applications in Geology	1	2	3

Total: 30

SECOND YEAR

SEMESTER III (3rd)

Module code	Compulsory Modules	Hours/Week		ECTS credits
		L	L/Y	
GEOL_018	Petrography of Igneous rocks	2	3	6
GEOL_019	Geochemistry	2	3	6

¹ L: lecture

² L/Y: laboratory work

GEOL_020	Stratigraphy - Historical Geology	2	3	6
GEOL_021	Geophysics	2	3	5
GEOL_022	Field Work II			3
Optional				
GEOL_083	Seminar-English for Geology	3		3

Module code	Elective Modules (selection of one course)	Hours/Week		ECTS credits
		L	L/Y	
GEOL_023	Geological data Analysis	1	2	4
GEOL_024	Geographical Information Systems	1	2	4
GEOL_025	Meteorology - Climatology	2	1	4

Total: 30

SEMESTER IV(4th)

Module code	Compulsory Modules	Hours/Week		ECTS credits
		L	L/Y	
GEOL_026	Petrography of Sedimentary and Metamorphic rocks	2	3	6
GEOL_027	Sedimentology	2	3	6
GEOL_028	Structural Geology	3	2	6
GEOL_029	Seismology	2	2	5
GEOL_030	Field Work III			3

Module code	Elective Modules (selection of one course)	Hours/Week		ECTS credits
		L	L/Y	
GEOL_031	Clay Minerals and Environmental Applications	2	1	4
GEOL_032	Earthquake Geology	2	1	4
GEOL_033	Digital Remote Sensing	1	2	4

Total: 30

THIRD YEAR

SEMESTER V (5th)

Module code	Compulsory Modules	Hours/Week		ECTS credits
		L	L/Y	
GEO_402	Petrography of Sedimentary and Metamorphic Rocks	2	2	5
GEO_605	Energy Sources	2	2	5
GEO_401	Remote sensing in the marine environment	2	2	4
GEO_603	Applied Hydrogeology	2	2	5
GEO_702	Engineering Geology	2	2	5

Module code	Elective Modules (selection of two courses)	Hours/Week		ECTS credits
		L	L/Y	
GEO_603E	Sedimentary Basin Analysis	2	1	3
GEO_703	Engineering Seismology	2	2	3
GEO_602E	Clay minerals and environmental applications	2	1	3
GEO_503E	Industrial Minerals	2	1	3
GEO_610E	GIS and Remote Sensing in Applied Geology	2	1	3
GEO_504E	The application of Biomarkers in the study of	2	1	3

	historical and prehistorical environments			
--	---	--	--	--

Total: 30

SEMESTER VI (6th)

Module code	Compulsory Modules	Hours/Week		ECTS credits
		L	L/Y	
GEO_602	Geological mapping	2	2	4
GEO_607	Ore Geology	2	2	4
GEO_704	Environmental Hydrogeology	2	2	6
GEO_802	Geology of Technical Works and the environment	2	2	6
GEO_608	Petrology of Igneous and Metamorphic Rocks	2	2	4

Module code	Elective Modules (selection of two)	Hours/Week		ECTS credits
		L	L/Y	
GEO_607E	Operational Oceanography applications in the management of the marine environment	2	1	3
GEO_608E	Applications of Remote sensing in Geology	2	1	3
GEO_609E	Marbles and Aggregate materials	2	1	3
GEO_703E	Coal Geology	2	1	3
GEO_403E	Hydrology	2	1	3
GEO_606	Engineering Geophysics	2	2	3
Optional				
GEO_611	Seminar authoring scientific papers and CV writing			3

Total: 30

FOURTH YEAR

SEMESTER VII (7th)

Module code	Elective Modules (selection of six)	Hours/Week		ECTS credits
		L	L/Y	
GEO_901E	Bachelor Dissertation (Ia)			5
GEO_902E	Bachelor Dissertation (Ib)			5
GEO_903E	Bachelor Dissertation (Ic)			5
GEO_710E	Applied Geomorphology	2	1	5
GEO_504	Geodynamics	2	1	5
GEO_502E	Earthquake Geology	2	1	5
GEO_711E	Insights in Ore Geology	2	1	5
GEO_804E	Petrogenesis of Ophiolitic Complexes	2	1	5
GEO_601E	Magmatism in the Hellenic Region	2	1	5
GEO_805	Geothermal Energy	2	1	5
GEO_706E	Metamorphism in the Hellenic Region	2	1	5
GEO_713E	Meteorology - Climatology	2	2	5
GEO_821E	Environmental Hygiene – Environmental Microorganisms	2	1	5
GEO_806	Elements of Geotechnical Engineering	2	1	5
GEO_715E	Disposal of solid and liquid wastes in the geological environment	2	1	5
Optional				
GEO_905	Traineeship			5

Total: 30

SEMESTER VIII (8th)

Module code	Elective Modules (selection of six)	Hours/Week		ECTS credits
		L	L/Y	
GEO_904E	Bachelor Dissertation (IIa)			5
GEO_905E	Bachelor Dissertation (IIb)			5
GEO_906E	Bachelor Dissertation (IIc)			5
GEO_705	Environmental Oceanography	2	1	5
GEO_702E	Petroleum Geology	2	1	5
GEO_820E	Applied Micropalaeontology – Palaeoenvironment	2	2	5
GEO_823E	Geology of Greece	2	1	5
GEO_815E	Protection of the geological, geographic and human heritage	2	1	5
GEO_810E	Interpretation and analysis of geological maps	2	1	5
GEO_819E	Environmental and Applied Geochemistry	2	1	5
GEO_704E	Volcanology	2	1	5
GEO_811E	Special Issues of Petrology	2	1	5
GEO_824E	NanoGeosciences	2	1	5
GEO_814E	Methods on Research and Analysis of Minerals and Rocks	2	1	5
GEO_825E	Introduction to Exploration and Mining Geology	2	1	5
GEO_822E	GIS and Remote sensing in Applied Geology. Data Analysis and modeling	2	1	5
GEO_714E	Landslide phenomena in terrestrial and marine environments	2	1	5
GEO_818E	Management and protection of water resources	2	1	5
GEOL_086	SEMINAR: Teaching Geosciences in Secondary School	2		2
Optional				
GEO_905	Traineeship			5

Total: 30