

**\* Management of Resources and Environment** (*Dated September 30<sup>th</sup>, 2015*)

<b>Total credits of the curriculum :</b>	<b>140 credits</b>
- <b>General education knowledge:</b>	<b>28 credits</b>
<i>(Not including physical education, military defense education and soft skills)</i>	
- <b>Basic courses:</b>	<b>6 credits</b>
- <b>Fundamental courses:</b>	<b>22 credits</b>
+ <i>Required:</i>	<i>20 credits</i>
+ <i>Elective:</i>	<i>2/4 credits</i>
- <b>Core courses:</b>	<b>31 credits</b>
+ <i>Required:</i>	<i>28 credits</i>
+ <i>Elective:</i>	<i>3/12 credits</i>
- <b>Khối kiến thức ngành:</b>	<b>53 credits</b>
+ <i>Required:</i>	<i>32 credits</i>
+ <i>Elective:</i>	<i>12 credits</i>
+ <i>Internship:</i>	<i>2 credits</i>
+ <i>Graduation thesis/ Subjects replacing thesis:</i>	<i>7 credits</i>

## Available curriculum

No.	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
<b>I</b>		<b>General education knowledge</b> <i>(Not including subjects 10 -12)</i>	<b>28</b>				
1	PHI1004	<i>Fundamental Principles of Marxism - Leninism 1</i>	2	24	6		
2	PHI1005	<i>Fundamental Principles of Marxism - Leninism 2</i>	3	36	9		PHI1004
3	POL1001	<i>Ho Chi Minh Ideology</i>	2	20	10		PHI1005
4	HIS1002	<i>The Revolutionary Line of the Communist Party of Vietnam</i>	3	42	3		POL1001
5	INT1003	<i>Introduction to Informatics 1</i>	2	10	20		
6	INT1005	<i>Introduction to Informatics 3</i>	2	12	18		INT1003
7	FLF2101	<i>General English 1</i>	4	16	40	4	
8	FLF2102	<i>General English 2</i>	5	20	50	5	FLF2101
9	FLF2103	<i>General English 3</i>	5	20	50	5	FLF2102
10		<i>Physical Education</i>	4				
11		<i>National Defence Education</i>	8				
12		<i>Soft Skills</i>	3				
<b>II</b>		<b>Basic courses</b>	<b>6</b>				
13	HIS1056	<i>Fundamental of Vietnamese Culture</i>	3	42	3		
14	GEO1050	<i>Earth and life sciences</i>	3	30	10	5	
<b>III</b>		<b>Fundamental courses</b>	<b>22</b>				
<b>III.1</b>		<b>Required</b>	<b>20</b>				
15	MAT1090	<i>Linear Algebra</i>	3	30	15		
16	MAT1091	<i>Calculus 1</i>	3	30	15		

No.	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
17	MAT1192	<i>Calculus 2</i>	2	20	10		MAT1091
18	MAT1101	<i>Probability and Statistics</i>	3	27	18		MAT1091
19	PHY1100	<i>Mechanics - Thermodynamics</i>	3	30	15		MAT1091
20	PHY1103	<i>Electromagnetism - Optics</i>	3	30	15		MAT1091
21	CHE1080	<i>General chemistry</i>	3	42		3	
<b>III.2</b>		<b><i>Elective</i></b>	<b>2/4</b>				
22	PHY1104	<i>General Physics Practice</i>	2		30		PHY1100
23	CHE1069	<i>General chemistry Lab</i>	2		30		CHE1080
<b>IV</b>		<b>Core courses</b>	<b>31</b>				
<b>IV.1</b>		<b><i>Required</i></b>	<b>28</b>				
24	GLO2099	<i>English for Management of Resources and Environment</i>	3	20	20	5	FLF2103
25	GLO2001	<i>Physical Geology</i>	3	30	10	5	GEO1050
26	GEO2059	<i>GIS and remote sensing</i>	3	30	10	5	GLO2001
27	GLO2087	<i>An introduction to sustainable development</i>	3	30	10	5	
28	GLO2056	<i>Cost-Benefit analysis</i>	3	40		5	
29	GLO3122	<i>Environmental impact assessment</i>	3	30	10	5	GLO2038
30	GEO2008	<i>Introduction to Meteorology</i>	2	20	7	3	GEO1050
31	EVS2002	<i>Environmental Science</i>	3	40		5	GEO1050
32	HMO2016	<i>Introduction to Hydrology</i>	2	25		5	GEO1050
33	GLO2058	<i>Applied Geoinformatics</i>	3	10	30	5	GEO2059
<b>IV.2</b>		<b><i>Elective</i></b>	<b>3/12</b>				
34	GEO3221	<i>Geomorphology</i>	3	30	10	5	GEO1050
35	GLO2037	<i>Natural Disasters</i>	3	30	10	5	GEO2001
36	HMO3600	<i>Introduction to Oceanography</i>	3	30	10	5	
37	HMO3608	<i>Oceanography of the Eastern Sea and the Pacific</i>	3	30	10	5	HMO3600
<b>V</b>		<b>Advanced courses</b>	<b>53</b>				

No.	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
<b>V.1</b>		<b>Required</b>	<b>32</b>				
38	GLO2038	<i>Introduction to Natural Resources</i>	3	30	10	5	GEO1050
39	GLO3157	<i>Exploring Natural Resources in Field</i>	3		45		GLO2038
40	GLO3145	<i>Geospatial Analysis in Natural Resource Management</i>	3	25	15	5	GLO2038
41	GLO2079	<i>Methods in Natural Resources Management</i>	3	30	10	5	EVS2082
42	GLO2039	<i>Natural Resource Economics</i>	3	30	10	5	GLO2056
43	EVS3249	<i>Environmental Law and Policy</i>	3	33	9	3	GLO2038
44	GLO2049	<i>Natural Resources in Viet Nam</i>	3	30	10	5	GLO2038
45	GLO3143	<i>Wetlands in Viet Nam</i>	2	20	5	5	GLO2038
46	GLO2044	<i>Integrated Resources Management</i>	3	30	10	5	GLO2039
47	GLO3158	<i>Techniques of Resources and Environment Survey and Monitoring</i>	3	30	10	5	
48	GLO3165	<i>Scientific method in Management of Resources and Environment</i>	3	30	10	5	
<b>V.2</b>		<b>Elective</b>	<b>12</b>				
<b>V.2.1</b>		<b>The intensive subjects in geological resource management</b>	<b>12/21</b>				
49	GLO3076	<i>Mineral Resources in Viet Nam</i>	3	30	10	5	GLO2038
50	GLO3093	<i>Landscape resources</i>	3	35	5	5	GLO2038
51	GLO3094	<i>Mineral Resource Economics</i>	3	30	10	5	GLO2038
52	GLO3151	<i>Geotourism</i>	3	30	10	5	GEO3093
53	GLO3154	<i>Mineral Law and Policy in Viet Nam</i>	3	30	10	5	GLO3092
54	GLO3160	<i>Landscape Assessment</i>	3	30	10	5	GLO2039

No.	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
55	GLO3161	<i>Earth Resources Management</i>	3	30	10	5	GLO2044
V.2.2		<b><i>The intensive subjects on management of land and water resources</i></b>	<b>12/24</b>				
56	EVS3317	<i>Land and Soil Classification and Assessment</i>	3	35	5	5	GEO1050
57	EVS3089	<i>Land and land map in Viet Nam</i>	3	35	5	5	GEO1050
58	EVS3090	<i>Fresh water in urban and rural</i>	3	30	10	5	
59	EVS3088	<i>Environment in water and land using</i>	3	35	5	5	GEO1050
60	HMO3101	<i>Watershed Management</i>	3	30	10	5	GLO2039
61	GLO3099	<i>Land planning and Land management</i>	3	30	10	5	GLO2039
62	GLO3101	<i>Water and Land management in community</i>	3	35	5	5	GLO2079
63	GLO3162	<i>Water and Land Law and Policy in Viet Nam</i>	3	30	10	5	
V.2.3		<b><i>The intensive subjects on management of marine resources</i></b>	<b>12/24</b>				
64	GLO3102	<i>Marine resources in Viet Nam</i>	3	30	10	5	GLO2049
65	GLO3103	<i>Methods in Marine resource Management</i>	3	30	10	5	GLO2079

No.	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
66	INL3013	<i>International Convention and Law on Marine</i>	3	30	10	5	
67	GLO3104	<i>Integrated Coastal Zone Management</i>	3	30	10	5	GLO2044
68	GLO3105	<i>Environment in Marine exploring and using</i>	3	35	5	5	GLO2038
69	HMO3623	<i>Management of Marine Resources and Environment</i>	3	30	10	5	HMO3600
70	HMO3624	<i>Marine Economics</i>	3	30	12	3	
71	HMO3812	<i>Planning for marine infrastructure</i>	3	30	12	3	
V.3		<b><i>Internship</i></b>	<b>2</b>				
72	GLO4058	<i>Practising</i>	2	2	25	3	
V.4		<b><i>Graduation thesis/ Subjects replacing thesis</i></b>	<b>7</b>				
73	GLO4059	<i>Graduation thesis</i>	7				
		<i>Subjects replacing thesis</i>	7				
74	GLO4013	<i>Methods of mapping of natural resource</i>	3	15	25	5	
75	GLO4014	<i>Planning Development in Regional Natural Resource Management</i>	4	20	35	5	
		<b>Total</b>	<b>140</b>				