

MINISTRY OF EDUCATION AND TRAINING
QUY NHON UNIVERSITY

UNDERGRADUATE PROGRAM

Level	: Undergraduate
Major	: Resource and Environmental Management
Code	: 7850101
Mode of Study	: Full-time

Gia Lai, 2025

UNDERGRADUATE PROGRAM

*(Issued together with Decision No: 2094/QĐ-ĐHQN dated July 22, 2025
of the Rector of Quy Nhon University)*

Level : **Undergraduate**
Major : **Resource and environmental management**
Code : **7850101**
Speciality (if any) :
Mode of Study : **Full-time**

1. OBJECTIVES

1.1. General objectives

The Resource and Environmental Management program aims to train graduates with comprehensive knowledge and professional skills in natural resource management, environmental protection, climate change adaptation, and sustainable development. Graduates are expected to possess practical competence and innovative capacity in natural resources and environmental management; and to be capable of applying digital technologies, data analysis, and artificial intelligence tools to support management, monitoring, and decision-making processes.

In addition, graduates are expected to demonstrate political and professional ethics, good health, lifelong learning ability, and a strong sense of social responsibility, contributing to the sustainable use of natural resources and environmental protection in support of the country's sustainable development in the context of international integration. In addition, graduates are expected to demonstrate political and professional ethics, good health, lifelong learning ability, and a strong sense of social responsibility, contributing to the sustainable use of natural resources and environmental protection in support of the country's sustainable development in the context of international integration.

1.2. Specific objectives

The specific objectives of the Bachelor's program in Resource and Environmental Management are to equip students with the following competencies:

+ PO1: Possess fundamental and advanced knowledge in natural resources and environmental management to meet professional requirements and international integration.

+ PO2: Demonstrate critical thinking, a holistic perspective, and interdisciplinary collaboration skills to address environmental issues at local, national, and regional levels.

+ PO3: Develop lifelong learning ability, innovation capacity, entrepreneurial thinking, and digital competence to adapt to changes in professions and society.

+ PO4: Demonstrate professional ethics, social responsibility, and a commitment to community service.

2. EMPLOYMENT OPPORTUNITIES AND FURTHER STUDY PROSPECTS

Graduates of the Resource and Environmental Management program may:

- Work in state management agencies related to natural resources and the environment, such as the Ministry of Agriculture and Environment, Departments of Agriculture and Environment, Departments of Science and Technology, and Divisions of Agriculture and Environment at provincial, municipal, and local levels.

- Work as environmental management, occupational safety, and sustainable development officers in enterprises, industrial parks, high-tech zones, and domestic or international economic corporations.

- Engage in research and teaching at research institutes, universities, and non-governmental organizations (NGOs) operating in the fields of environment, natural resources, sustainable development, and climate change.

Graduates with a bachelor's degree in Environmental Resource Management may also pursue further studies at the master's and doctoral levels in related fields such as Environmental Resource Management, Natural Resource Management, Environmental Science, Environmental Management, Climate Change, and Sustainable Development.

3. LEARNING OUTCOMES

Program Learning Outcomes (PLOs)

Program Learning Outcomes	Performance Indicators
PLO1: Apply knowledge of general education, disciplinary foundations, and related fields to analyze and provide information for natural resources and environmental management.	PI1.1: Identify fundamental knowledge in natural sciences, social sciences, economics, natural resources, and environment to perform professional tasks.
	PI1.2: Apply disciplinary and interdisciplinary knowledge to analyze, synthesize, and provide information for assessment and decision-making in

	natural resources and environmental management.
PLO2: Apply knowledge related to the collection, analysis, and processing of natural resources and environmental data to provide information for decision-making.	PI2.1: Identify methods and tools for collecting and analyzing data related to natural resources and the environment.
	PI2.2: Apply methods and techniques for data analysis to prepare professional reports serving management and decision-making.
PLO3: Apply administrative procedures, technological tools, and information systems to collect, process, and manage data for professional tasks in the field of natural resources and environment.	PI3.1: Present administrative procedures and legal regulations related to natural resources and environmental management in Vietnam.
	PI3.2: Perform administrative and professional tasks in state management agencies, public service units, and consulting organizations in the field of natural resources and environment.
	PI3.3: Use software and information systems to collect, process, and manage specialized data for assessment, planning, and decision-making.
PLO4: Apply communication and teamwork skills to solve professional tasks in an interdisciplinary and global context.	PI4.1: Select appropriate presentation, communication, and teamwork methods for professional tasks.
	PI4.2: Present professional, technical, and administrative documents in the field of natural resources and environment.
	PI4.3: Read and understand English materials in the field and identify global environmental issues related to the profession.
PLO5: Use critical thinking and problem-solving skills in research and professional work.	PI5.1: Identify and analyze practical issues in natural resources and environmental management.
	PI5.2: Propose and implement research or practical solutions for professional issues

	in the field of natural resources and environment.
PLO6: Identify career opportunities and propose innovative startup ideas in the field of natural resources and environment.	PI 6.1: Identify the professional context and development trends in the field of natural resources and environment.
	PI 6.2: Develop innovative startup ideas that contribute to solving practical issues related to natural resources and the environment.
PLO7: Apply self-learning ability, digital competence, and lifelong learning to adapt to and develop professional careers in the field of natural resources and environment.	PI7.1: Select appropriate learning resources and digital tools to improve professional knowledge proactively.
	PI7.2: Apply information from digital platforms to solve problems and develop long-term professional competence.
PLO8: Demonstrate professional ethics and responsibility through making professional judgments and evaluations in the field of natural resources and environment.	PI8.1: Identify ethical issues and professional responsibilities in professional activities.
	PI8.2: Make professional judgments and evaluations based on ethical standards and their impacts on society and the environment.

4. PROGRAM DURATION AND TOTAL ACADEMIC WORKLOAD

4.1. Program Duration: 04 years

4.2. Total credits: 135 credits (excluding Physical Education and National Defense Education).

Program structure	Credits
General Knowledge	24
Professional Knowledge	111
- Fundamental knowledge	29
- Specialized knowledge (if any)	43
- Supplementary Knowledge	26
- Internship	7
- Graduation thesis, Alternative courses	6
Total	135

5. ADMISSION REQUIREMENTS

Admission is conducted in accordance with the current admission regulations of Quy Nhon University.

6. MODE OF STUDY AND GRADUATION REQUIREMENTS

6.1. Mode of study: The program is implemented under the credit-based system.

6.2. Graduation Requirements: (Academic requirements, Physical Education and National Defense Education, foreign language and information technology requirements)

- Academic requirements: Complete all courses and credit requirements of the program with a minimum cumulative GPA of 2.00 on a 4.0 scale.

- Program learning outcomes: Achieve the program learning outcomes (PLOs) of the Environmental Resource Management program.

- Physical Education and National Defense Education: Complete all Physical Education courses and obtain the National Defense and Security Education certificate as required by regulations.

- Foreign language requirement: Meet the foreign language proficiency standard in accordance with the current regulations of Quy Nhon University.

- Information technology requirement: Meet the basic information technology competency standard in accordance with the current regulations of Quy Nhon University.

7. TEACHING METHODS AND LEARNING ASSESSMENT

7.1 Teaching Methods

The Environmental Resource Management program adopts an integrated, student-centered teaching approach to develop students' knowledge, skills, and professional competencies. The main teaching methods include:

- + Lectures combined with practical cases: Theoretical knowledge is delivered together with real-world examples, data, and case studies in natural resources and environmental management to enhance understanding and application.

- + Experiential learning: Practical training, field surveys, and internships at agencies, enterprises, and protected areas... help students gain hands-on experience and exposure to real professional environments.

- + Group discussion and collaborative learning: Discussions and group work promote academic interaction, communication skills, teamwork, and critical thinking.

- + Application of digital technologies: Software, simulation tools, and digital databases (e.g., GIS, environmental management software, climate change modeling tools) are used to enhance teaching effectiveness and keep students updated with modern professional practices.

+ Self-directed learning and research: Students are guided to access scientific literature and environmental data, fostering lifelong learning and strengthening their ability to independently acquire knowledge and adapt to professional changes.

7.2 Learning Assessment

Learning assessment is conducted in accordance with the Regulations on Undergraduate Training issued together with Decision No. 1487/QĐ-ĐHQN dated July 1, 2021 by the Rector of Quy Nhon University, and the current regulations on assessment based on the program learning outcomes.

8. PROGRAM CONTENT

No	Course Code	Course Name	Seme ster	Num ber of credits	In-class hours			Exp eri men t/ Prati ce	Others	Self-study Hour s	Prerequisi te Course Code	Departmen t in Charge	Note
					The ory	Assi gnm ent	Disc ussion						
I. General Knowledge				36									
I.1. Political Science & Law				13									
1	1130299	Marxist-Leninist Philosophy	1	3	40		10			85		DPSLM	
2	1130300	Marxist-Leninist Political Economy	2	2	27		6			57		DPSLM	
3	1130091	Ho Chi Minh Thought	5	2	27		6			57	1130046	DPSLM	
4	1130301	Scientific Socialism	3	2	27		6			57		DPSLM	
5	1130302	History of the Communist Party of Vietnam	4	2	27		6			57		DPSLM	
6	1130049	Introduction to Law	1	2	27		6			57	1130045	DPSLM	
I.2. Physical Education, National Defense and Security Education				12									
I.2.1. Physical Education (Students select 1 of the following 8 groups, 3/24 credits)				3									
7	1120172	Physical Education 1 (Football 1) (*)	1	1	4			26		21		DPE	
8	1120173	Physical Education 2 (Football 2) (*)	2	1	4			26		21	1120172	DPE	
9	1120174	Physical Education 3 (Football 3) (*)	3	1	4			26		21	1120173	DPE	
10	1120175	Physical Education 1 (Volleyball 1) (*)	1	1	4			26		21		DPE	
11	1120176	Physical Education 2 (Volleyball 2) (*)	2	1	4			26		21	1120175	DPE	
12	1120177	Physical Education 3 (Volleyball 3) (*)	3	1	4			26		21	1120176	DPE	
13	1120178	Physical Education 1 (Basketball 1) (*)	1	1	4			26		21		DPE	
14	1120179	Physical Education 2 (Basketball 2) (*)	2	1	4			26		21	1120178	DPE	
15	1120180	Physical Education 3 (Basketball 3) (*)	3	1	4			26		21	1120179	DPE	
16	1120181	Physical Education 1 (Badminton 1) (*)	1	1	4			26		21		DPE	
17	1120182	Physical Education 2 (Badminton 2) (*)	2	1	4			26		21	1120181	DPE	
18	1120183	Physical Education 3 (Badminton 3) (*)	3	1	4			26		21	1120182	DPE	
19	1120184	Physical Education 1 (Vietnamese Traditional Matial Arts 1) (*)	1	1	4			26		21		DPE	
20	1120185	Physical Education 2 (Vietnamese Traditional Matial Arts 2) (*)	2	1	4			26		21	1120184	DPE	

21	1120186	Physical Education 3 (Vietnamese Traditional Matial Arts 3) (*)	3	1	4			26		21	1120185	DPE	
22	1120187	Physical Education 1 (Taekwondo Matial Arts 1) (*)	1	1	4			26		21		DPE	
23	1120188	Physical Education 2 (Taekwondo Matial Arts 2) (*)	2	1	4			26		21	1120187	DPE	
24	1120189	Physical Education 3 (Taekwondo Matial Arts 3) (*)	3	1	4			26		21	1120188	DPE	
25	1120190	Physical Education 1 (Karatedo Matial Arts 1) (*)	1	1	4			26		21		DPE	
26	1120191	Physical Education 2 (Karatedo Matial Arts 2) (*)	2	1	4			26		21	1120190	DPE	
27	1120192	Physical Education 3 (Karatedo Matial Arts 3) (*)	3	1	4			26		21	1120191	DPE	
28	1120239	Physical Education 1 (Pickleball 1) (*)	1	1	4			26		15		DPE	
29	1120240	Physical Education 2 (Pickleball 1) (*)	2	1	4			26		15	1120239	DPE	
30	1120241	Physical Education 3 (Pickleball 1) (*)	3	1	4			26		15	1120240	DPE	
I.2.2. National Defense and Security Education				9									
31	1120168	National Defense and Security Education 1 (*)	4	3	37		16			82		CNDSE	
32	1120169	National Defense and Security Education 2 (*)	4	2	22		16			52	1120168	CNDSE	
33	1120170	National Defense and Security Education 3 (*)	4	2	14			32		44	1120169	CNDSE	
34	1120171	National Defense and Security Education 4 (*)	4	2	4			52		34	1120170	CNDSE	
I.3. Foreign Language				7									
35	1090061	English 1	1	3	45					90		DFL	
36	1090166	English 2	2	4	60					120	1090061	DFL	
I.4. Social Sciences and Humanities/Mathematics, Natural Science - Environment, Management Science				4						0			
37	1150422	Enterpreneurship	5	2	25		10			55		DFBA	
38	2030003	Communication Skills	2	2	18		4	20		48		DSSH	
II. Professional Knowledge				111									
II.1. Fundamental Knowledge				29									
39	1010479	Mathematical statistics	2	2	30					60		DMS	
40	2020522	Environmental chemistry	2	2	22	4	8			56		DNS	
41	2020627	Earth science	1	2	25		10			55		DNS	
42	1050240	Basic Information	1	3	30			30		75		DIT	
43	2020757	Geodesy	3	2	21			18		51		DNS	
44	1080142	Environment science	1	2	25		10			55		DNS	

45	2020631	Environmental Geology	2	2	25		10			55		DNS	
46	2020628	General Cartography	2	2	30		0			60		DNS	
47	2020728	Fundamentals of remote sensing	3	2	21			18		51	2020628;	DNS	
48	2020758	Geographic Information System	3	2	21			18				DNS	
49	2020759	Fundamental of Natural Resource and Environmental Management	3	3	34	6	10			85		DNS	
50	1080196	Climate change and Natural hazards	4	2	25		10			55		DNS	
51	2020525	Geography of Viet Nam	1	3	40		10			85		DNS	
II.2. Specialized knowledge			43										
II.2.1a. Compulsory Courses			35										
52	2020163	Forest management and biodiversity	5	2	25		10			55	1080142; 2020759	DNS	
53	2020170	Soil Resources and Environmental Management	4	2	22			16		52	1080142	DNS	
54	2020171	Water Resources, Environmental Management	4	2	20		10	10		50	1080142	DNS	
55	2020526	Solid waste and hazardous waste management	6	2	25		10			55	1080142; 2020759	DNS	
56	2020760	The Overall planning development of Economic – Social	3	2	25		10			55		DNS	
57	2020761	Rural planning	7	2	25			10		55		DNS	
58	2020166	Landscape planning	7	2	25			10		55	2020759	DNS	
59	2020528	Land use planning	6	2	20			20		50		DNS	
60	2020529	Water resources Planning	6	2	20			20		50		DNS	
61	2020762	Air environment management and protection	7	2	24		4	8		54	2020759	DNS	
62	1080146	Mineral and energy resources	5	2	25		10			55	1080142; 2020759	DNS	
63	2020175	Natural resource and Environmental Economics	7	2	25		10			55	1080142; 2020759	DNS	
64	1080144	Environmental Impact Assessment	6	3	40			10		85	1080142	DNS	
65	2020763	Environmental Quality Monitoring And Assessment	5	3	30	5		20		80	2020759; 2020632	DNS	
66	2020764	Environmental Technology	6	3	30		10	20		75		DNS	
67	2020181	Applied Climatology and Hydrology	3	2	25			10		55		DNS	
II.2.1b. Elective Courses (8/16 credits)			8							0			
68	2020119	Human Geography	2	2	30					60		DNS	
69	2020633	Green Economics	2	2	25		10			55		DNS	
70	1080258	Community-Based Natural Resource and Environmental Management	4	2	25		10			55	2020759	DNS	
71	2020768	Agricultural economy and rural development	4	2	25		10			55		DNS	
72	2020769	Sustainable Livelihoods	5	2	25		10			55		DNS	
73	2020168	Tourism Resource and Environment	5	2	25		10			55		DNS	

74	2020770	Management and operation of waste treatment systems	7	2	25		10		55	2020759	DNS	
75	2020771	Application of Artificial Intelligence (AI) in Natural Resources and Environmental Management	7	2	21		18		51		DNS	
II.3. Supplementary Knowledge			33									
II.3.1. Professional training			26									
II.3.1.a. Compulsory Courses			22									
76	2020182	Soil and soil map	3	3	40		10		85		DNS	
77	2020452	Landscape and Landscape ecology	4	2	25		10		55		DNS	
78	2020534	State management of natural resources and environment	5	2	20	5	10		55	2020759	DNS	
79	2020765	English for environmental and resource management	4	2	30				60		DNS	
80	2020766	Application of Remote sensing, GIS in environmental and resource management	5	2	21		18		51	2020728 2020758	DNS	
81	2020186	Data Processing and Information Management in Natural Resources and Environment	6	3	32		26		77	1010479 2020759	DNS	
82	2020535	Environmental Quality Analysis Practice	5	2	0		60		30	2020632; 2020763	DNS	
83	2020536	Environmental Documentation Practice	7	2	0		60		30		DNS	
84	2020767	Scientific research methods in natural resources and environment	4	2	20		10	10	50		DNS	
85	2020632	Critical Thinking and Teamwork Skills	2	2	25		10		55		DNS	
II.3.1.b. Elective Courses (4/10 credits)			4									
86	2020772	Education and Communication of Resources – Environment	6	2	20		8	12	50		DNS	
87	2020773	Environmental Engineering Drawing	6	2	25		10		55		DNS	
88	2020774	Thematic mapping	7	2	21		18		51		DNS	
89	2020539	Application of UAV technology in natural resources and environmental monitoring	7	2	15		30		45		DNS	
90	2020775	Modeling in Environmental and Resource Management	7	2	21		18		51		DNS	
II.3.2. Internships			7									
91	2020185	Landscape Field Trip	4	1					0	2020627; 2020181; 2020182	DNS	
92	2020190	Thematic Internship (Pollution Control and Environmental Protection)	6	1					0	2020759; 1080146; 2020170; 2020171	DNS	
93	2020191	Graduation Internship	8	5					0		DNS	

II.4. Bachelor thesis, Alternative courses				6									
94	2020192	Bachelor thesis	8	6								DNS	
Alternative courses				6									
95	2020776	Health, Safety and Environment	8	3	40		10	10		90	2020534; 2020632	DNS	
96	2020777	Environmental project establishment and management	8	3	40		10			85	1080144; 2020534	DNS	
Total (excluding Physical Education and National Defense and Security Education)				135									

9. TENTATIVE TEACHING PLAN

Semester 1:

No	Course Code	Course Name	Sem ester	Nu mbe r of credits	Class duration			Exp erim ent/Prat ice	Others	Self-stud y Hour s	Prerequisit e Course Code	Departmen t in Charge	Note
					Theo ry	Assi gnment	Disc ussion						
Compulsory Courses													
1	1130299	Marxist–Leninist Philosophy	1	3	40	0	10	0	0	85	0	DPSLM	
2	1130049	Introduction to Law	1	2	27	0	6	0	0	57	1130045	DPSLM	
3	1090061	English 1	1	3	45	0	0	0	0	90	0	DFL	
4	2020627	Earth science	1	2	25	0	10	0	0	55	0	DNS	
5	1050240	Basic Information	1	3	30	0	0	30	0	75	0	DIT	
6	2020525	Geography of Viet Nam	1	3	40	0	10	0	0	85	1080046	DNS	
7	1080142	Environment science	1	2	25	0	10	0	0	55	0	DNS	
Elective Courses 1/8 credits													
8	1120172	Physical Education 1 (Football 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
9	1120175	Physical Education 1 (Volleyball 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
10	1120178	Physical Education 1 (Basketball 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
11	1120181	Physical Education 1 (Badminton 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
12	1120184	Physical Education 1 (Vietnamese Traditional Matial Arts 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
13	1120187	Physical Education 1 (Taekwondo Matial Arts 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
14	1120190	Physical Education 1 (Karatedo Matial Arts 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
15	1120239	Physical Education 1 (Pickleball 1) (*)	1	1	4	0	0	26	0	21	0	DPE	
Total				18									

Semester 2:

No	Course Code	Course Name	Sem ester	Nu mbe r of credits	In-class hours			Exp erim- ent/ Prat ice	Others	Self- stud y Hour s	Prerequisite Course Code	Departmen t in Charge	Note
					Theo ry	Assi gnment	Disc ussion s						
Compulsory Courses													
1	1130300	Marxist-Leninist Political Economy	2	2	27	0	6	0	0	57	0	DPSLM	
2	1090166	English 2	2	4	60	0	0	0	0	120	1090061	DFL	
3	2030003	Communication Skills	2	2	18	0	4	20	0	48	0	DSSH	
4	1010479	Mathematical statistics	2	2	30	0	0	0	0	60		DMS	
5	2020522	Environmental chemistry	2	2	22	4	8	0	0	56	0	DNS	
6	2020631	Environmental Geology	2	2	25	0	10	0	0	55	0	DNS	
7	2020628	General Cartography	2	2	30	0	0	0	0	60	0	DNS	
8	2020632	Critical Thinking and Teamwork Skills	2	2	25	0	10	0	0	55	0	DNS	
Elective Courses (3/11 credits: including 1 credit from Physical Education (8 credits) and 2 credits from the remaining courses (4 credits))													
9	2020119	Human Geography	2	2	30	0	0	0	0	60	0	DNS	
10	2020633	Green Economics	2	2	25	0	10	0	0	55	0	DNS	
11	1120173	Physical Education 2 (Football 2) (*)	2	1	4	0	0	26	0	21	1120172	DPE	
12	1120176	Physical Education 2 (Volleyball 2) (*)	2	1	4	0	0	26	0	21	1120175	DPE	
13	1120179	Physical Education 2 (Basketball 2) (*)	2	1	4	0	0	26	0	21	1120178	DPE	
14	1120182	Physical Education 2 (Badminton 2) (*)	2	1	4	0	0	26	0	21	1120181	DPE	
15	1120185	Physical Education 2 (Vietnamese Traditional Matial Arts 2) (*)	2	1	4	0	0	26	0	21	1120184	DPE	
16	1120188	Physical Education 2 (Taekwondo Matial Arts 2) (*)	2	1	4	0	0	26	0	21	1120187	DPE	
17	1120191	Physical Education 2 (Karatedo Matial Arts 2) (*)	2	1	4	0	0	26	0	21	1120190	DPE	
18	1120240	Physical Education 2 (Pickleball 2) (*)	2	1	4	0	0	26	0	21	1120239	DPE	
Total				20									

Semester 3:

No	Course Code	Course Name	Semester	Number of credits	In-class hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Department in Charge	Note
					Theory	Assignment	Discussion						
Compulsory Courses													
1	1130301	Scientific Socialism	3	2	27	0	6	0	0	57	0	DPSLM	
2	2020757	Geodesy	3	2	21	0	0	18	0	51	0	DNS	
3	2020728	Fundamentals of remote sensing	3	2	21	0	0	18	0	51	2020628;	DNS	
4	2020758	Geographic Information System	3	2	21	0	0	18	0	0	0	DNS	
5	2020759	Fundamental of Natural Resource and Environmental	3	3	34	6	10	0	0	85	0	DNS	

		Management											
6	2020760	The Overall planning development of Economic – Social	3	2	25	0	10	0	0	55	0	DNS	
7	2020181	Applied Climatology and Hydrology	3	2	25	0	0	10	0	55	0	DNS	
8	2020182	Soil and soil map	3	3	40	0	0	10	0	85	0	DNS	
Elective Courses 1/8 credits													
9	1120174	Physical Education 3 (Football 3) (*)	3	1	4	0	0	26	0	21	1120173	DPE	
10	1120177	Physical Education 3 (Volleyball 3) (*)	3	1	4	0	0	26	0	21	1120176	DPE	
11	1120180	Physical Education 3 (Basketball 3) (*)	3	1	4	0	0	26	0	21	1120179	DPE	
12	1120183	Physical Education 3 (Badminton 3) (*)	3	1	4	0	0	26	0	21	1120182	DPE	
13	1120186	Physical Education 3 (Vietnamese Traditional Matial Arts 3) (*)	3	1	4	0	0	26	0	21	1120185	DPE	
14	1120189	Physical Education 3 (Taekwondo Matial Arts 3) (*)	3	1	4	0	0	26	0	21	1120188	DPE	
15	1120192	Physical Education 3 (Karatedo Matial Arts 3) (*)	3	1	4	0	0	26	0	21	1120191	DPE	
16	1120241	Physical Education 3 (Pickleball 3) (*)	3	1	4	0	0	26	0	21	1120240	DPE	
Total				18									

Semester 4:

No	Course Code	Course	Semester	Number of credits	Class duration			Experiment/ Practice	Others	Self-study Hours time	Prerequisite Course Code	Department in Charge	Note
					Theory	Assignment	Discussion						
Compulsory Courses													
1	1130302	History of the Communist Party of Vietnam	4	2	27	0	6	0	0	57	0	DPSLM	
2	2020765	English for environmental and resource management	4	2	30	0	0	0	0	60	0	DNS	
3	2020767	Scientific research methods in natural resources and environment	4	2	20	0	10	10	0	50	0	DNS	
4	1080196	Climate change and Natural hazards	4	2	25	0	10	0	0	55	0	DNS	
5	2020170	Soil Resources and Environmental Management	4	2	22	0	0	16	0	52	1080142	DNS	
6	2020171	Water Resources, Evironmetal Management	4	2	20	0	10	10	0	50	1080142	DNS	
7	2020452	Landscape and Landscape ecology	4	2	25	0	10	0	0	55	0	DNS	
8	2020185	Landscape Field Trip	4	1	0	0	0	0	0	0	2020627; 2020181; 2020182	DNS	
9	1120168	National Defense and Security Education 1 (*)	4	3	37	0	16	0	0	82	0	CNDSE	
10	1120169	National Defense and Security Education 2 (*)	4	2	22	0	16	0	0	52	1120168	CNDSE	
11	1120170	National Defense and Security Education 3 (*)	4	2	14	0	0	32	0	44	1120169	CNDSE	
12	1120171	National Defense and Security	4	2	4	0	0	52	0	34	1120170	CNDSE	

		<i>Education 4 (*)</i>											
Elective Courses 2/4 credits													
13	1080258	Community-Based Natural Resource and Environmental Management	4	2	25	0	10	0	0	55	2020759	DNS	
14	2020768	Agricultural economy and rural development	4	2	25	0	10	0	0	55	0	DNS	
Total				17									

Semester 5:

No	Course Code	Course	Sem ester	Nu mber of credits	Class duration			Exp erim ent/ Prac tice	Others	Self- stud y Hour s time	Prerequisit e Course Code	Departmen t in Charge	Note
					Theory	Assi gnment	Disc ussion						
Compulsory Courses													
1	1130091	Ho Chi Minh Thought	5	2	27	0	6	0	0	57	1130046	DPSLM	
2	1150422	Entrepreneurship	5	2	25	0	10	0	0	55	0	DFBA	
3	2020163	Forest management and biodiversity	5	2	25	0	10	0	0	55	1080142; 2020759	DNS	
4	1080146	Mineral and energy resources	5	2	25	0	10	0	0	55	1080142; 2020759	DNS	
5	2020763	Environmental Quality Monitoring And Assessment	5	3	30	5	0	20	0	80	2020759; 2020632	DNS	
6	2020766	Application of Remote sensing, GIS in environmental and resource management	5	2	21	0	0	18	0	51	2020728 2020758	DNS	
7	2020535	Environmental Quality Analysis Practice	5	2	0	0	0	60	0	30	2020632; 2020763	DNS	
8	2020534	State management of natural resources and environment	5	2	20	5	10	0	0	55	2020759	DNS	
Elective Courses 2/4 credits													
9	2020769	Sustainable Livelihoods	5	2	25	0	10	0	0	55	0	DNS	
10	2020168	Tourism Resource and Environment	5	2	25	0	10	0	0	55	0	DNS	
Total				19									

Semester 6:

No	Course Code	Course	Sem ester	Nu mbe r of cred its	Class duration			Exp erim ent/ Prac tice	Others	Self- stud y Hour s time	Prerequisit e Course Code	Departmen t in Charge	Note
					Theory	Assi gnm ent	Disc ussio n						
Compulsory Courses													
1	2020526	Solid waste and hazardous waste management	6	2	25	0	10	0	0	55	1080142; 2020759	DNS	
2	2020528	Land use planning	6	2	20	0	0	20	0	50	0	DNS	
3	2020529	Water Resources Planning	6	2	20	0	0	20	0	50	0	DNS	
4	2020764	Environmental Technology	6	3	30	0	10	20	0	75		DNS	
5	2020186	Data Processing and Information Management in Natural Resources and Environment	6	3	32	0	0	26	0	77	1010479 2020759	DNS	
6	2020190	Thematic Internship (Pollution Control and Environmental Protection)	6	1	0	0	0	0	0	0	2020759; 1080146; 2020170;	DNS	

											2020171		
7	1080144	Environmental Impact Assessment	6	3	40	0	0	10	0	85	1080142	DNS	
Elective Courses 2/4 credits													
8	2020772	Education and Communication of Resources – Environment	6	2	20	0	8	12	0	50	0	DNS	
9	2020773	Environmental Engineering Drawing	6	2	25	0	0	10	0	55	0	DNS	
Total				18									

Semester 7:

No	Course Code	Course	Semester	Number of credits	Class duration			Experiment/ Practice	Others	Self-study Hours time	Prerequisite Course Code	Department in Charge	Note
					Theory	Assignment	Discussion						
Compulsory Courses													
1	2020761	Rural planning	7	2	25	0	0	10	0	55	0	DNS	
2	2020175	Natural resource and Environmental Economics	7	2	25	0	10	0	0	55	1080142; 2020759	DNS	
3	2020166	Landscape planning	7	2	25	0	0	10	0	55	2020759	DNS	
4	2020762	Air environment management and protection	7	2	24	0	4	8	0	54	2020759	DNS	
5	2020536	Environmental Documentation Practice	7	2	0	0	0	60	0	30	0	DNS	
Elective Courses (4/10 credits, including 2 credits in Technology and 2 credits in Management)													
6	2020770	Management and operation of waste treatment systems	7	2	25	0	10	0	0	55	0	DNS	
7	2020771	Application of Artificial Intelligence (AI) in Natural Resources and Environmental Management	7	2	21	0	0	18	0	51	0	DNS	
8	2020774	Thematic mapping	7	2	21	0	0	18	0	51	0	DNS	
9	2020539	Application of UAV technology in natural resources and environmental monitoring	7	2	15	0	0	30	0	45	0	DNS	
10	2020775	Modeling in Environmental and Resource Management	7	2	21	0	0	18	0	51	0	DNS	
Total				14									

Semester 8:

No	Course Code	Course	Semester	Number of credits	Class duration			Experiment/ Practice	Others	Self-study Hours time	Prerequisite Course Code	Department in Charge	Note
					Theory	Assignment	Discussion						
Compulsory Courses													
1	2020191	Graduation Internship	8	5	0	0	0	0	0	0	0	DNS	
Compulsory Courses													
2	2020192	Bachelor thesis	8	6	0	0	0	0	0	0	0	DNS	

3	2020776	Health, Safety and Environment	8	3	40	0	10	10	0	90	2020534; 2020632	DNS	
4	2020777	Environmental project establishment and management	8	3	40	0	10	0	0	85	1080144; 2020534	DNS	
Total				11									

10. GUIDELINES FOR PROGRAM IMPLEMENTATION

- This training program is applied to students admitted to the Resource and environmental management program starting from the 2025 enrollment cohort.

- The implementation of the program is based on the designed curriculum, training objectives, targeted learners, workforce requirements, and other specific training requirements. For elective courses, depending on development trends, societal needs, and actual conditions, the Faculty will advise students in selecting appropriate courses.

- The Dean of the Faculty is responsible for organizing and providing guidance on the principles for developing detailed course syllabi to ensure that the objectives, contents, and requirements of the program are fully achieved, while also meeting the needs of learners and society.

- The training program shall be reviewed and updated at least once every two years to ensure alignment with the development of the Environmental Resource Management discipline and the socio-economic development needs.

Gia Lai, July 22, 2025

RECTOR

Assoc. Prof. Dr. Doan Duc Tung