MINISTRY OF EDUCATION AND TRAINING

QUY NHON UNIVERSITY

MASTER PROGRAM

Level : **Master**

Major : **Physical Geography**

Code : **8440217**

Mode of study : **Full-time**

Gia Lai, 2025

MINISTRY OF EDUCATION AND TRAINING
QUY NHON UNIVERSITY

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

MASTER PROGRAM

(Issued together with Decision No.489/QĐ-ĐHQN dated February 14, 2025 of the Rector of Quy Nhon University)

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1. OBJECTIVES

1.1. General objective

To train application-oriented master's graduates in Physical Geography who possess sound political qualities and professional ethics; advanced academic and professional knowledge; a solid command of fundamental scientific knowledge and new knowledge in Geography; the ability to apply technology in research; high practical competence; skills in surveying, identifying, assessing, and solving problems within the trained specialization; as well as creative thinking and the capacity to work and conduct scientific research in both disciplinary and interdisciplinary contexts.

After graduation, learners may continue their studies in doctoral programs.

1.2. Specific objectives (denoted as POs)

Graduates of the application-oriented master's program/specialization in Physical Geography are able to:

- In terms of knowledge

+ PO1: Possess in-depth knowledge of geographical laws, components, natural processes and natural resource types; natural geosystems in their interrelationships and mutual interactions; natural changes associated with socio-economic development activities; measures for the exploitation, use, protection, and improvement of natural conditions and resources by territory; as well as remote sensing maps and GIS in geographical research.

+ PO2: Possess broad and advanced disciplinary knowledge of physical geography; landscape ecology and environment; protection, rational use, and regeneration of natural resources; and issues of Vietnam's physical geography, for application in resource analysis and assessment and in the territorial organization of economic sectors toward rational resource use and environmental protection.

- In terms of skills

+ PO3: Possess skills in critical thinking, analysis, synthesis, processing, and scientific, advanced evaluation of data and information related to issues in the field of physical geography; be able to use software and equipment in research, assess natural conditions and natural resources, design and implement research activities, and apply

advances in Geography in general and Physical Geography in particular to real-life practice; and be capable of conducting independent research and conveying knowledge.

+ PO4: Possess the skills to address basic issues in institution-level scientific research topics and to implement projects serving the planning of rational resource use and environmental protection for localities. Have sufficient knowledge and competence to continue in doctoral training programs and to meet the socio-economic and science-and-technology development needs of localities and the country.

+ PO5: Use foreign languages and information technology effectively to meet the requirements of research, work, and study in the field of physical geography.

- In terms of autonomy and responsibility

+ PO6: Possess professional ethical qualities; assume personal responsibility and responsibility toward the working group; be socially and environmentally responsible for professional conclusions in work and in life; demonstrate a professional, cooperative, and community-oriented working style; maintain awareness of knowledge updating; and show creativity in work.

2. EMPLOYMENT POSITIONS AND FURTHER STUDY OPPORTUNITIES

Graduates from the application-oriented training program in Physical Geography may:

- Competently undertake positions in state management agencies responsible for territorial organization planning, land, natural resources, and environment; in institutes, research centers, universities and colleges; in state-owned and private companies in the fields of physical geography, territorial organization, and environmental management and protection; and may pursue doctoral studies or work as lecturers at universities, colleges, professional schools, and upper secondary schools.

3. LEARNING OUTCOMES

The program is designed to ensure that graduates attain the following learning outcomes:

3.1. Knowledge

- Foundational knowledge

1) PLO1: Apply knowledge of philosophy and disciplinary foundations to analyze and assess contemporary physical-geographical and socio-economic issues, natural resources, sustainable development, regional planning, and territorial organization.

2) PLO2: Apply and analyze knowledge of cartography, remote sensing technology, and GIS in research on physical geography and environmental resources.

- Advanced disciplinary knowledge

3) PLO3: Apply, analyze, and evaluate advanced knowledge in scientific research (selected issues in Vietnam's physical geography, resource geography, geology, minerals, landscapes, and landscape ecology, etc.) in territorial planning, resource use, and environmental protection.

4) PLO4: Apply disciplinary knowledge and methods in geographical research to support natural resource management and to propose policies and solutions for environmental resource protection, climate change adaptation, and sustainable development.

3.2. Skills

- General skills

5) PLO5: Proficiently use foreign languages and information technology in applied research within specialized fields so as to consult English-language disciplinary materials, understand reports or presentations at conferences and seminars related to the specialization, and communicate in a foreign language in common situations.

6) PLO6: Demonstrate creativity in communication, conduct, and professional exchange in the field of physical geography; present, discuss, and work independently or in teams according to assigned requirements and objectives.

- Professional skills

7) PLO7: Proficiently apply skills in searching, collecting, and synthesizing documents; analyzing and processing information for research purposes; updating information and keeping pace with developments in the discipline; identifying physical-geographical issues and their interrelationships; and proposing solutions for planning and rational territorial use.

8) PLO8: Proficiently use specialized equipment and software and model ideas to assess and forecast development trends of physical-geographical issues in professional work, and creatively propose solutions serving planning and rational territorial use.

3.3. Autonomy and responsibility

9) PLO9: Apply professional ethical qualities in practice and comply with the law; demonstrate a professional, cooperative, and community-oriented working style; self-direct personal competence development; adapt to highly competitive working environments; and have the ability to make judgments, assessments, and decisions regarding the developmental direction of assigned tasks.

4. ADMISSION REQUIREMENTS

- Have graduated from, or satisfied the conditions for recognition of graduation from, a university program (or an equivalent or higher level) in a discipline appropriate to Physical Geography;

- Have a foreign-language proficiency of Level 3 or higher according to Vietnam's 6-level Foreign Language Proficiency Framework, or an equivalent qualification.

Applicants graduating from appropriate undergraduate majors:

No.	Prospective master major	Relevant undergraduate majors	Note
1	Physical Geography	- Geography Education - History and Geography Education - Physical Geography - Geography - Geology - Meteorology and Climatology - Hydrology - Tourism - Land Management - Natural Resources and Environmental Management	

- Applicants graduating from undergraduate majors requiring supplementary knowledge: the list of majors requiring supplementary knowledge and the supplementary courses to be completed includes:

No.	Prospective master major	Majors requiring supplementary knowledge	Supplementary courses	Note
1	Physical Geography	- Forest Resource Management - Forestry - Cartography - Oceanography - Environmental Science - Regional and Urban Planning - Natural Resource Economics *Other majors shall be considered on a case-by-case basis*	- General Physical Geography - Geography of Vietnam - Landscape and Landscape Ecology - Geology - Geography of the Continents	Depending on each specific case, the Faculty will propose the number of supplementary courses to be taken

5. ADMISSION APPLICANTS

In accordance with the Regulation on Admission and Training for Master Programs of Quy Nhon University promulgated together with Decision No. 2705/QĐ-ĐHQN dated October 21, 2021).

6. TRAINING DURATION AND TOTAL PROGRAM CREDIT LOAD

6.1. Training duration: 2 years

6.2. Total program credit load: 60 credits (*including 06 internship credits and 09 Master thesis)*

Program structure	Credits
General knowledge	3
Foundational and specialized knowledge	48
Compulsory courses	30
Elective courses	18
Master Thesis	9
Total	**60**

7. TRAINING PROCESS AND GRADUATION REQUIREMENTS

7.1. Training process

Training is organized under the credit-based system in compliance with current regulations of the Ministry of Education and Training and Quy Nhon University.

7.2. Graduation requirements

In accordance with current regulations of the Ministry of Education and Training and Quy Nhon University:

a) Have completed all courses in the training program and successfully defended the graduation project;

b) Meet the foreign-language requirement specified in the program learning outcomes before graduation consideration, as evidenced by one of the diplomas or certificates demonstrating proficiency equivalent to Level 4 of Vietnam’s 6-level Foreign Language

Proficiency Framework as stipulated in the Appendix to the Regulation on Admission and Training for Master Programs of Quy Nhon University, or other equivalent certificates announced by the Ministry of Education and Training, or a university degree or higher in a foreign-language major, or a university degree or higher in another major in which the program was delivered entirely in a foreign language;

c) Fulfill responsibilities in accordance with the regulations of Quy Nhon University; not be subject to criminal prosecution; and not be under disciplinary sanction or suspension from study.

8. ASSESSMENT METHODS AND GRADING SCALE

8.1. Grading scale

A 10-point scale is used for all forms of assessment in each course.

8.2. Assessment forms and weighting

- Theoretical courses:

No.	Assessment form	Choose 1 of 3 weighting groups		
		Group 1	**Group 2**	**Group 3**
1	**Continuous assessment**	30%	40%	50%
2	**Final assessment**	70%	60%	50%

- Professional internship course

Internships and field practice must include an internship report, which is graded through cross-marking: the supervisor's score accounts for 50%, and the cross-marker's score (through marking or oral examination) accounts for 50%. Assessment criteria are specified in detail in the M4 course outline.

- Graduation project course

Implementation complies with the Regulation on Admission and Training for Master's Programs of Quy Nhon University. Specific criteria are detailed in the M4 course outline.

8.3. Assessment methods

Assessment methods used in the master's training program in Physical Geography are divided into two main types: formative assessment and summative assessment, and are specified in detail in the program description of the major.

9. CURRICULUM FRAMEWORK

No.	Course code		Course Name	Semester	Credit load				Prerequisite course code	Department in charge	Note
	Prefix	Number			Total	Theory	Assighment	Experiment/ Practice			
I. General knowledge					**3**						
1	THTN	501	Philosophy	1	3	3				DPLSM	
II. Foundational and specialized knowledge					**48**						

No.	Course code		Course Name	Semester	Credit load				Prerequisite course code	Department in charge	Note
	Prefix	Number			Total	Theory	Assighment	Experiment/ Practice			
II.1. Compulsory courses					**30**						
2	ĐLTN	001	Modern Physical Geography	1	3	2	1			DNS	
3	ĐLTN	002	The issues of Vietnam's physical geography	2	3	2	0.3	0.7	ĐLTN 001	DNS	
4	ĐLTN	004	Internship in landscape and landscape ecololy	2	3			3	ĐLTN 002; ĐLTN 007	DNS	
5	ĐLTN	005	Internship in Research and Evaluation Methods of Geography	3	3			3	ĐLTN 001; ĐLTN 003; ĐLTN 006-ĐLTN 009	DNS	
6	ĐLTN	006	Application of GIS and Remote sensing in Geography	1	3	2		1		DNS	
7	ĐLTN	007	Resources - Environment and Sustainable Development	1	3	2	0.7	0.3		DNS	
8	ĐLTN	008	Creation and analysis of thematic maps	2	3	2.3		0.7	ĐLTN 006	DNS	
9	ĐLTN	009	Geography of Land and Biological Resources	3	3	2	0.7	0.3		DNS	
10	ĐLTN	018	Climate Change and Natural Hazards	2	3	2.7	0.3			DNS	
11	ĐLTN	012	Applied Geography	3	3	2	0.7	0.3		DNS	
II.2. Elective courses (18/33 credits)					**18**						
12	ĐLTN	011	Vietnam’s sea and island geography	1	3	2	0.3	0.7		DNS	
13	ĐLTN	003	Applied Geology	2	3	2	0.3	0.7		DNS	

No.	Course code		Course Name	Semester	Credit load				Prerequisite course code	Department in charge	Note
	Prefix	Number			Total	Theory	Assighment	Experiment/ Practice			
14	ĐLTN	013	Applied Climatology and Hydrology	2	3	2	0.3	0.7		DNS	
15	ĐLTN	014	Coastal Geomorphology	1	3	3				DNS	
16	ĐLTN	015	Regional Planning and Territorial Organization	3	3	3			ĐLTN 002; ĐLTN 017	DNS	
17	ĐLTN	025	Statistical Geography	3	3	2.7	0.3			DNS	
18	ĐLTN	017	Some problems of modern socio-economic Geography	1	3	0.7	0.3			DNS	
19	ĐLTN	026	Education for Sustainable Development	2	3	2	0.3	0.7		DNS	
20	ĐLTN	019	Forecasting and Management of Natural Resources	2	3	2.7	0.3		ĐLTN 007	DNS	
21	ĐLTN	020	Energy and Green Growth	2	3	2.7	0.3			DNS	
22	ĐLTN	021	Tourism Development Planning	3	3	2.7	0.3			DNS	
23	ĐLTN	022	Management of marine and coastal resources	3	3	2.7	0.3		ĐLTN 011	DNS	
24	ĐLTN	027	Land Use and Urban Planning	3	3	2	0.3	0.7	ĐLTN 007	DNS	
	Master Thesis				**9**						
25	ĐLTN	028	Master Thesis	4	9					DNS	
Total					**60**						

Matrix of relationships between courses and program learning outcomes

No.	Course code	Course	PLOs								
			1	2	3	4	5	6	7	8	9
1	THTN501	Philosophy	M	-	-	-	-	-	-	M	M

No.	Course code	Course	PLOs								
			1	2	3	4	5	6	7	8	9
2	ĐLTN001	Modern Physical Geography	H	-	M	M	-	-	H	M	-
3	ĐLTN002	The issues of Vietnam's physical geography	M	-	H	H	-	M	M	-	-
4	ĐLTN004	Internship in landscape and landscape ecology	M	-	H	H	-	M	M	M	H
5	ĐLTN005	Internship in Research and Evaluation Methods of Geography	M	-	H	H	-	M	M	M	H
6	ĐLTN006	Application of GIS and Remote sensing in Geography	-	M	M	-	M	M	-	H	-
7	ĐLTN007	Resources, Environment and Sustainable Development	H	-	M	M	-	M	M	-	H
8	ĐLTN008	Creation and analysis of thematic maps	H	-	M	-	-	M	M	M	M
9	ĐLTN009	Geography of Land and Biological resources	M	-	M	M	-	M	M	M	M
10	ĐLTN018	Climate Change and Natural Hazards	H	-	M	M	-	M	M	-	M
11	ĐLTN012	Applied Geography	M	-	M	M	-	-	M	M	H
12	ĐLTN011	Vietnam’s sea and island geography	H	-	M	H	-	-	M	H	H
13	ĐLTN003	Applied Geology	H	-	M	M	-	-	M	M	H
14	ĐLTN013	Applied Climatology and Hydrology	M	-	M	H	-	-	M	M	H
15	ĐLTN014	Coastal Geomorphology	M	H	-	M	-	M	H	-	H
16	ĐLTN015	Regional Planning and Territorial Organization	-	-	M	M	-	-	M	M	M
17	ĐLTN025	Statistical Geography	M	-	M	M	M	-	M	-	H
18	ĐLTN017	Some problems of modern socio-economic Geography	H	-	M	-	M	H	-	H	M
19	ĐLTN026	Education for Sustainable Development	-	-	M	M	-	M	-	-	-
20	ĐLTN019	Forecasting and Management of Natural Resources	-	M	-	M	-	M	M	M	-
21	ĐLTN020	Energy and Green Growth	H	-	H	H	-	-	H	M	H
22	ĐLTN021	Tourism Development Planning	H	-	H	H	-	-	M	M	M
23	ĐLTN022	Management of Vietnam’s Marine and Coastal Resources	M	-	M	M	-	M	M	M	-

No.	Course code	Course	PLOs								
			1	2	3	4	5	6	7	8	9
24	ĐLTN027	Land Use and Urban Planning	M	-	M	-	M	-	H	M	-
25	ĐLTN028	Master's Project	H	M	M	H	M	H	H	M	H

Note: L = Low level; M = Medium level; H = High level

10. TRAINING PLAN

No.	Course code	Course	Credits	Training plan (semester)				Proposed instructors	Department in charge
				1	2	3	4		
I. General knowledge									
1	THTN501	Philosophy	3	3				Faculty of Political Theory, Law and State Management	DPLSM
II. Foundational and specialized knowledge									
II.1. Compulsory									
2	ĐLTN001	Modern Physical Geography	3	3				1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Prof. Dr. Nguyễn Đăng Hội	DNS
3	ĐLTN002	The issues of Vietnam's physical geography	3		3			1. Assoc. Prof. Dr. Lương Thị Vân 2. Dr. Nguyễn Thị Huyền	DNS
4	ĐLTN004	Internship in landscape and landscape ecoloy	3			3		1. Dr. Nguyễn Thị Huyền 2. Dr. Phan Thị Lệ Thuỷ 3. Dr. Dương Thị Nguyên Hà	DNS
5	ĐLTN005	Internship in Research and Evaluation Methods of Geography	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Nguyễn Đức Tôn 3. Dr. Nguyễn Trọng Đợi	DNS
6	ĐLTN006	Application of GIS and Remote sensing in Geography	3	3				1. Dr. Ngô Anh Tú 2. Dr. Đặng Ngô Bảo Toàn	DNS
7	ĐLTN007	Resources - Environment and Sustainable Development	3	3				1. Dr. Nguyễn Thị Huyền 2. Dr. Phan Thị Lệ Thuỷ	DNS
8	ĐLTN008	Creation and	3		3			1. Dr. Đặng Ngô Bảo Toàn	DNS

No.	Course code	Course	Credits	Training plan (semester)				Proposed instructors	Department in charge
				1	2	3	4		
		analysis of thematic maps						2. Dr. Ngô Anh Tú	
9	ĐLTN009	Geography of Land and Biological Resources	3		3			1. Dr. Nguyễn Thị Huyền 2. Dr. Phan Thị Lệ Thuỷ	DNS
10	ĐLTN018	Climate Change and Natural Hazards	3			3		1. Dr. Dương Thị Nguyên Hà 2. Dr. Phan Thị Lệ Thủy	DNS
11	ĐLTN012	Applied Geography	3		3			1. Dr. Nguyễn Thị Huyền 2. Dr. Nguyễn Trọng Đợi	DNS
II.2. Elective courses (18/33 credits)			**18**						
12	ĐLTN011	Vietnam's sea and island geography	3	1				1. Assoc. Prof. Dr. Lương Thị Vân 2. Assoc. Prof. Dr. Nguyễn Hữu Xuân	DNS
13	ĐLTN003	Applied Geology	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Nguyễn Thị Huyền	DNS
14	ĐLTN013	Applied Climatology and Hydrology	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Dương Thị Nguyên Hà	DNS
15	ĐLTN014	Coastal Geomorpholog y	3	3				1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Dương Thị Nguyên Hà	DNS
16	ĐLTN015	Regional Planning and Territorial Organization	3			3		1. Dr. Trương Quang Hiển 2. Dr. Phan Thị Lệ Thủy	DNS
17	ĐLTN025	Statistical Geography	3			3		1. Dr. Nguyễn Đức Tôn 2. Assoc. Prof. Dr. Nguyễn Hữu Xuân	DNS
18	ĐLTN017	Some problems of modern socio-economic Geography	3	3				1. Dr. Nguyễn Đức Tôn 2. Assoc. Prof. Dr. Nguyễn Minh Tuệ	DNS
19	ĐLTN026	Education for Sustainable	3		3			1. Dr. Lê Thị Lành	DNS

No.	Course code	Course	Credits	Training plan (semester)				Proposed instructors	Department in charge
				1	2	3	4		
		Development						2. Dr. Nguyễn Đức Tôn	
20	ĐLTN019	Forecasting and Management of Natural Resources	3		3			1. Assoc. Prof. Dr. Lương Thị Vân 2. Dr. Nguyễn Thị Huyền	DNS
21	ĐLTN020	Energy and Green Growth	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Nguyễn Thị Huyền	DNS
22	ĐLTN021	Tourism Development Planning	3			3		1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Nguyễn Trọng Đợi	DNS
23	ĐLTN022	Management of Vietnam's Marine and Coastal Resources	3			3		1. Dr. Nguyễn Thị Huyền 2. Dr. Dương Thị Nguyên Hà	DNS
24	ĐLTN027	Land Use and Urban Planning	3			3		1. Dr. Nguyễn Trọng Đợi 2. Dr. Nguyễn Thị Hằng	DNS
III. Master Thesis			**9**						
25	ĐLTN028	Master Thesis	9				9	DNS	DNS
Total			**60**						

11. GUIDELINES FOR TRAINING PROGRAM IMPLEMENTATION

- This training program is applied from the 2025 admission cohort for learners in the Physical Geography major.

- The training process is based on the designed curriculum, educational objectives and target learners, human resource requirements, and specific training requirements. For elective courses, depending on actual development trends and social needs, the managing faculty will advise learners in selecting appropriate courses.

- The head of the managing faculty is responsible for organizing and guiding the principles for developing detailed course syllabi so that objectives, contents, and requirements are met, while also satisfying the needs of learners and society.

- The training program is reviewed and updated at least once every two years, in response to the development of the Physical Geography discipline and in alignment with socio-economic development needs.

Gia Lai, February 14, 2025

RECTOR

Assoc. Prof. Dr. Doan Duc Tung