

MINISTRY OF EDUCATION AND TRAINING
QUY NHON UNIVERSITY

MASTER'S PROGRAM

Level of education: Master's
Major: Physical Geography
English name: Physical Geography
Program code: 8440217
Mode of study: Full-time

Binh Dinh, 2025

MASTER'S PROGRAM

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

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1. EDUCATIONAL 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. PROGRAM 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’s major	Relevant undergraduate majors	Notes
1	Physical Geography	<ul style="list-style-type: none"> - 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's major	Majors requiring supplementary knowledge	Supplementary courses	Notes
1	Physical Geography	- Forest Resource Management - Forestry - Cartography - Oceanography - Environmental Science - Regional and Urban Planning - Natural Resource Economics <i>Other majors shall be considered on a case-by-case basis</i>	- 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's 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 graduation project credits)

Program structure	Credits
General knowledge	3
Foundational and specialized knowledge	48
Compulsory courses	30
Elective courses	18
Master's Project	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's 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 title	Semester	Credit load				Prerequisite course code	Managing faculty	Notes
	Prefix	Number			Total	Theory	Exercises	Practice/Lab			
I. General knowledge					3						
1	THTN	501	Philosophy	1	3	3				Faculty of Political Theory, Law and State Management	
II. Foundational and specialized					48						

No.	Course code		Course title	Semester	Credit load				Prerequisite course code	Managing faculty	Notes
	Prefix	Number			Total	Theory	Exercises	Practice/Lab			
knowledge											
<i>II.1. Compulsory courses</i>					30						
2	ĐLTN	001	Modern Physical Geography	1	3	2	1			Faculty of Natural Sciences	
3	ĐLTN	002	The issues of Vietnam's physical geography	2	3	2	0.3	0.7	ĐLTN 001	Faculty of Natural Sciences	
4	ĐLTN	004	Internship in landscape and landscape ecology	2	3			3	ĐLTN 002; ĐLTN 007	Faculty of Natural Sciences	
5	ĐLTN	005	Internship in Research and Evaluation Methods of Geography	3	3			3	ĐLTN 001; ĐLTN 003; ĐLTN 006- ĐLTN 009	Faculty of Natural Sciences	
6	ĐLTN	006	Application of GIS and Remote sensing in Geography	1	3	2		1		Faculty of Natural Sciences	
7	ĐLTN	007	Resources - Environment and Sustainable Development	1	3	2	0.7	0.3		Faculty of Natural Sciences	
8	ĐLTN	008	Creation and analysis of thematic maps	2	3	2.3		0.7	ĐLTN 006	Faculty of Natural Sciences	
9	ĐLTN	009	Geography of Land and Biological Resources	3	3	2	0.7	0.3		Faculty of Natural Sciences	
10	ĐLTN	018	Climate Change and Natural Hazards	2	3	2.7	0.3			Faculty of Natural Sciences	
11	ĐLTN	012	Applied Geography	3	3	2	0.7	0.3		Faculty of Natural Sciences	
<i>II.2. Elective courses (18/33 credits)</i>					18						

No.	Course code		Course title	Semester	Credit load				Prerequisite course code	Managing faculty	Notes
	Prefix	Number			Total	Theory	Exercises	Practice/Lab			
12	ĐLTN	011	Vietnam's sea and island geography	1	3	2	0.3	0.7		Faculty of Natural Sciences	
13	ĐLTN	003	Applied Geology	2	3	2	0.3	0.7		Faculty of Natural Sciences	
14	ĐLTN	013	Applied Climatology and Hydrology	2	3	2	0.3	0.7		Faculty of Natural Sciences	
15	ĐLTN	014	Coastal Geomorphology	1	3	3				Faculty of Natural Sciences	
16	ĐLTN	015	Regional Planning and Territorial Organization	3	3	3			ĐLTN 002; ĐLTN 017	Faculty of Natural Sciences	
17	ĐLTN	025	Statistical Geography	3	3	2.7	0.3			Faculty of Natural Sciences	
18	ĐLTN	017	Some problems of modern socio-economic Geography	1	3	0.7	0.3			Faculty of Natural Sciences	
19	ĐLTN	026	Education for Sustainable Development	2	3	2	0.3	0.7		Faculty of Natural Sciences	
20	ĐLTN	019	Forecasting and Management of Natural Resources	2	3	2.7	0.3		ĐLTN 007	Faculty of Natural Sciences	
21	ĐLTN	020	Energy and Green Growth	2	3	2.7	0.3			Faculty of Natural Sciences	
22	ĐLTN	021	Tourism Development Planning	3	3	2.7	0.3			Faculty of Natural Sciences	
23	ĐLTN	022	Management of marine and coastal	3	3	2.7	0.3		ĐLTN 011	Faculty of Natural	

No.	Course code		Course title	Semester	Credit load				Prerequisite course code	Managing faculty	Notes
	Prefix	Number			Total	Theory	Exercises	Practice/Lab			
			resources						Sciences		
24	ĐLTN	027	Land Use and Urban Planning	3	3	2	0.3	0.7	ĐLTN 007	Faculty of Natural Sciences	
Master's Project					9						
25	ĐLTN	028	Master's Project	4	9					Faculty of Natural Sciences	
Total					60						

Matrix of relationships between courses and program learning outcomes

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

No.	Course code	Course title	PLOs								
			1	2	3	4	5	6	7	8	9
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	-
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 title	Credits	Training plan (semester)				Proposed instructors	Managing faculty
				1	2	3	4		
I. General knowledge									
1	THTN501	Philosophy	3	3				Faculty of Political Theory, Law and State Management	Faculty of Political Theory, Law and State Management
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	Faculty of Natural Sciences

No.	Course code	Course title	Credits	Training plan (semester)				Proposed instructors	Managing faculty
				1	2	3	4		
3	ĐLTN002	The issues of Vietnam's physical geography	3		3			1. Assoc. Prof. Dr. Lương Thị Vân 2. Dr. Nguyễn Thị Huyền	Faculty of Natural Sciences
4	ĐLTN004	Internship in landscape and landscape ecology	3			3		1. Dr. Nguyễn Thị Huyền 2. Dr. Phan Thị Lệ Thủy 3. Dr. Dương Thị Nguyên Hà	Faculty of Natural Sciences
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	Faculty of Natural Sciences
6	ĐLTN006	Application of GIS and Remote sensing in Geography	3	3				1. Dr. Ngô Anh Tú 2. Dr. Đặng Ngô Bảo Toàn	Faculty of Natural Sciences
7	ĐLTN007	Resources - Environment and Sustainable Development	3	3				1. Dr. Nguyễn Thị Huyền 2. Dr. Phan Thị Lệ Thủy	Faculty of Natural Sciences
8	ĐLTN008	Creation and analysis of thematic maps	3		3			1. Dr. Đặng Ngô Bảo Toàn 2. Dr. Ngô Anh Tú	Faculty of Natural Sciences
9	ĐLTN009	Geography of Land and Biological Resources	3		3			1. Dr. Nguyễn Thị Huyền 2. Dr. Phan Thị Lệ Thủy	Faculty of Natural Sciences
10	ĐLTN018	Climate Change and Natural Hazards	3			3		1. Dr. Dương Thị Nguyên Hà 2. Dr. Phan Thị Lệ Thủy	Faculty of Natural Sciences
11	ĐLTN012	Applied Geography	3		3			1. Dr. Nguyễn Thị Huyền 2. Dr. Nguyễn Trọng Đợi	Faculty of Natural Sciences
<i>II.2. Elective courses (18/33 credits)</i>			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	Faculty of Natural Sciences

No.	Course code	Course title	Credits	Training plan (semester)				Proposed instructors	Managing faculty
				1	2	3	4		
13	ĐLTN003	Applied Geology	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Nguyễn Thị Huyền	Faculty of Natural Sciences
14	ĐLTN013	Applied Climatology and Hydrology	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Dương Thị Nguyên Hà	Faculty of Natural Sciences
15	ĐLTN014	Coastal Geomorphology	3	3				1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Dương Thị Nguyên Hà	Faculty of Natural Sciences
16	ĐLTN015	Regional Planning and Territorial Organization	3			3		1. Dr. Trương Quang Hiến 2. Dr. Phan Thị Lệ Thủy	Faculty of Natural Sciences
17	ĐLTN025	Statistical Geography	3			3		1. Dr. Nguyễn Đức Tôn 2. Assoc. Prof. Dr. Nguyễn Hữu Xuân	Faculty of Natural Sciences
18	ĐLTN017	Some problems of modern socio-economic Geography	3	3				1. Dr. Nguyễn Đức Tôn 2. Assoc. Prof. Dr. Nguyễn Minh Tuệ	Faculty of Natural Sciences
19	ĐLTN026	Education for Sustainable Development	3		3			1. Dr. Lê Thị Lành 2. Dr. Nguyễn Đức Tôn	Faculty of Natural Sciences
20	ĐLTN019	Forecasting and Management of Natural Resources	3		3			1. Assoc. Prof. Dr. Lương Thị Vân 2. Dr. Nguyễn Thị Huyền	Faculty of Natural Sciences
21	ĐLTN020	Energy and Green Growth	3		3			1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Nguyễn Thị Huyền	Faculty of Natural Sciences
22	ĐLTN021	Tourism Development Planning	3			3		1. Assoc. Prof. Dr. Nguyễn Hữu Xuân 2. Dr. Nguyễn Trọng Đợi	Faculty of Natural Sciences
23	ĐLTN022	Management of Vietnam's Marine and Coastal	3			3		1. Dr. Nguyễn Thị Huyền 2. Dr. Dương Thị Nguyên Hà	Faculty of Natural

No.	Course code	Course title	Credits	Training plan (semester)				Proposed instructors	Managing faculty
				1	2	3	4		
		Resources						Sciences	
24	ĐLTN027	Land Use and Urban Planning	3			3		1. Dr. Nguyễn Trọng Đợi 2. Dr. Nguyễn Thị Hằng	Faculty of Natural Sciences
III. Master's Project			9						
25	ĐLTN028	Master's Project	9				9	Faculty of Natural Sciences	Faculty of Natural Sciences
Total			60						

11. GUIDELINES FOR IMPLEMENTING THE TRAINING PROGRAM

- 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.

Binh Dinh, February 14, 2025

RECTOR

Assoc. Prof. Dr. Doan Duc Tung