

MINISTRY OF EDUCATION AND TRAINING
QUY NHON UNIVERSITY

UNDERGRADUATE PROGRAM

Level : **Undergraduate**
Major : **Land Management**
Code : **7850103**
Mode of Study : **Full-time**

Gia Lai, 2025

UNDERGRADUATE PROGRAM

*(Issued together with Decision No. 2178/QĐ-ĐHQN dated August 01, 2025
of the Rector of Quy Nhon University)*

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1. OBJECTIVES

1.1. General objectives

The undergraduate program in Land Management equips students with the knowledge and skills to apply specialized knowledge, research and application of science and technology, skills in using geoinformatics technology, digital capabilities, and artificial intelligence to solve practical problems in the land management sector; possessing political qualities, professional ethics, and good health; having innovative thinking and the ability to work independently, adapting to changes in land management, resource and environmental management in socio-economic development, national defense and security; having professional responsibility, a lifelong learning mindset, and serving the community in international integration.

1.2. Specific objectives

- + PO1: Possess a strong grasp of professional knowledge and practical skills in the field of land management;
- + PO2: Have a vision, critical thinking, proactively cooperate, and solve problems at the unit, local, national, and global levels;
- + PO3: Possess the ability to self-learn, innovate, think entrepreneurially, and have digital skills;
- + PO4: Possess ethical qualities, professional responsibility, a professional work style, friendly cooperation, and a sense of community service.

2. EMPLOYMENT OPPORTUNITIES AND FURTHER STUDY PROSPECTS

Graduates from the Land Management program can work at:

- 1) Commune People's Committees: Land Administration - Agriculture - Construction - Irrigation – Environment.

2) Provincial/City People's Committees, Department of Agriculture and Environment

3) Public service units under the Department of Agriculture and Environment of provinces/cities: Land Registration Office; Land Fund Development Center; Agricultural Planning Center, Investment Project Management Board...

4) Consulting companies in the fields of surveying, GIS, remote sensing, databases, planning, real estate, valuation, construction, agriculture, forestry, irrigation, environment...

5) Lecturers, researchers, experts at universities, colleges, and research institutes in the fields of land, agriculture, forestry, construction, and environment.

6) Departments, Institutes, and Centers under the Ministry of Agriculture and Environment.

Graduates with a Bachelor's degree in Resource and Environmental Management can continue their studies at the Master's and Doctoral levels in the following fields and specializations: Land Management; Resource and Environmental Management; Surveying and Mapping Engineering; Remote Sensing and Geographic Information Systems.

3. LEARNING OUTCOMES

(Program Learning Outcomes)	(Performance Indicators)
1) PLO1: Apply knowledge related to land management to provide information and data for state land management and societal needs.	<i>PI 1.1: Identify knowledge related to land management to facilitate the collection of information and data on land.</i>
	<i>PI 1.2: Apply knowledge related to land management to provide information and data for state land management and societal needs.</i>
2) PLO2: Apply knowledge and skills related to evaluating and analyzing land data to support decision-making.	<i>PI 2.1: Identify knowledge and skills related to evaluating and analyzing land data.</i>
	<i>PI 2.2: Prepare reports evaluating and analyzing land data to support decision-making.</i>
3) PLO3: Apply administrative procedures and processes, and utilize data and information in land management to perform professional tasks.	<i>PI 3.1: Understand the administrative processes and procedures for land management, data exploitation, and land information.</i>
	<i>PI 3.2: Perform administrative procedures related to land management at state management agencies, public services at public service units, and consulting services.</i>
	<i>PI 3.3: Perform professional tasks based on the land information system on an electronic platform.</i>

(Program Learning Outcomes)	(Performance Indicators)
4) PLO4: Apply communication and teamwork skills to solve problems in the field of land management in the context of global integration.	<i>PI 4.1: Identify and select appropriate communication and teamwork methods and skills for each specific task in the field of land management.</i>
	<i>PI 4.2: Apply communication and teamwork skills to solve specific problems in state land management.</i>
	<i>PI 4.3: Understand global issues related to land management.</i>
5) PLO5: Utilize critical thinking and problem-solving skills in the field of land management.	<i>PI 5.1: Identify existing inconsistencies in land management.</i>
	<i>PI 5.2: Plan and implement solutions to address these issues in land management.</i>
6) PLO6: Identify opportunities for entrepreneurship and innovation from exploiting public services in the land sector.	<i>PI 6.1: Identify the context of land management and public services.</i>
	<i>PI 6.2: Formulate innovative startup ideas for exploiting public services in the land sector.</i>
7) PLO7: Apply self-learning abilities, digital skills, and lifelong learning to adapt and develop professionally.	<i>PI 7.1: Demonstrates autonomy and responsibility in the learning process by proactively gathering relevant knowledge and information from various sources.</i>
	<i>PI 7.2: Possesses the digital capacity to search for information and translate that information into knowledge for problem-solving.</i>
8) PLO8: Demonstrate responsibility in work and honesty in performing duties and responsibilities.	<i>PI 8.1: Identify ethical and professional responsibility issues in the professional activities of the land management field.</i>
	<i>PI 8.2: Provides professional assessments and evaluations in the land management field based on the nature of ethical and professional responsibility issues and their impact.</i>

4. PROGRAM DURATION AND TOTAL ACADEMIC WORKLOAD

4.1. Program Duration: 4 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	33
- Specialized knowledge (if any)	43
- Supplementary Knowledge	29
<i>Internship</i>	7
- Graduation thesis, Alternative courses	6
Total	135

5. ADMISSION REQUIREMENTS

Admission criteria are based on Quy Nhon University's current admission regulations.

6. MODE OF STUDY AND GRADUATION REQUIREMENTS

6.1. Mode of study: Credit-based training

6.2. Graduation Requirements

- *Academic requirements*: Students must accumulate the required number of credits and study volume according to the training program; have a cumulative GPA of 2.00 or higher (on a 4-point scale).

- *Achieve the program's learning outcomes*.

- *Physical Education and National Defense & Security Education*: Complete all Physical Education courses and obtain a National Defense & Security Education certificate as required.

- *Foreign language proficiency*: Meet the foreign language proficiency standards as currently prescribed by Quy Nhon University.

- *Information technology proficiency*: Meet the basic information technology skills standards as currently prescribed by Quy Nhon University.

- *Moral and ethical requirements*: At the time of graduation, students must not be under criminal investigation and must not be subject to disciplinary action at the level of suspension from studies.

7. TEACHING METHODS AND LEARNING ASSESSMENT

7.1. Teaching Methods

No	Teaching strategies	Teaching methods
1	Face-to-Face Teaching: Face-to-Face Teaching is the process in which instructors impart basic knowledge and information to learners, with instructors actively controlling, guiding, and implementing the teaching activities. Through detailed presentations, explanations, and guidance, instructors help learners access and understand the lesson content. This teaching strategy is effective in providing systematic knowledge, guiding the development of new skills, and creating a solid foundation for learners to apply in their professional work, thereby developing practical skills.	- Lecture/Speech/Presentation - Explanation and illustration - Discussion (Question and Answer) - Problem presentation - Simulation method - Practical guidance (Demonstration)
2	2. Indirect Teaching: Indirect teaching is a teaching strategy in which instructors create a learning environment where learners actively access knowledge without direct intervention. This method encourages learners to actively participate in the learning process, using critical thinking and problem-solving skills independently. Instead of instructors directly transmitting knowledge, learners discover, research, and apply what they have learned on their own. This teaching strategy not only helps develop self-learning and research abilities but also enhances learners' awareness and personal responsibility in their learning and career development.	- Case-based learning - Problem-based learning - Open-ended questions - Exercises - Discussions - Debates - Projects - Online learning

3	Experiential learning comprises four cycles: Concrete experience, where learners participate in practical activities such as group discussions, experiments, or field trips; Reflection, where learners contemplate and analyze the results, behaviors, and emotions from the experience; Concept formation, where learners draw lessons and theories from the reflection process; and Active experimentation, where learners apply knowledge to new situations to test and adjust. Experiential learning not only helps develop knowledge and skills but also enhances learners' attitudes.	- Experiential learning - Internships - Fieldwork - Simulations - Practice - Discussions - Projects
4	Interactive Teaching and Learning: Interactive Teaching and Learning is a teaching strategy in which learners not only receive knowledge from the instructor but also actively participate in discussions, dialogues, and collaborations with peers and the instructor. The instructor organizes and coordinates the learning process, creating opportunities for learners to interact and provide continuous feedback. This teaching strategy helps develop communication, collaboration, critical thinking, and problem-solving skills, while also enhancing learners' confidence and initiative.	- Interactive lectures - Group exercises - Discussions - Debates/Debates - Practices - Internships - Fieldwork - Projects
5	Self-Study: Self-study is a learning strategy in which learners are autonomous in setting goals, building plans, and controlling their learning process with minimal support from the instructor. Learners proactively seek out resources and complete learning tasks through assignments, projects, or problems proposed by the instructor. Self-learning not only helps develop self-learning and research skills but also promotes self-reliance, personal responsibility, and independent problem-solving abilities.	- Online learning - Homework - Self-directed learning - Practice - Internship - Fieldwork - Projects

7.2. Learning Assessment

In accordance with the Regulations on Undergraduate Training issued with Decision No. 1487/QĐ-DHQN dated July 1, 2021, by the Rector of Quy Nhon University, and the current Regulations on Examination and Evaluation based on Program Output

8. PROGRAM CONTENT

No	Course Code	Course Name	Semester	Num ber of credi ts	In-class Hours			Experiment/ Practice	Othe rs	Self - stud y Ho urs	Prere quisit e Cour se Code	Not e
					Theo ry	Assign ment	Discus sion					
I. General Knowledge				24								
I.1. Political Science & Law				13								
1	1130299	Marxist-Leninist Philosophy	1	3	40		10			85		
2	1130300	Marxist-Leninist Political Economy	2	2	27		6			57		
3	1130091	Ho Chi Minh Thought	5	2	27		6			57	1130046	
4	1130301	Scientific Socialism	3	2	27		6			57		
5	1130302	History of the Communist Party of Vietnam	4	2	27		6			57		
6	1130049	Introduction to Law	1	2	27		6			57	1130045	
I.2. Physical Education, National Defense and Security Education				11								
7	1120172	Physical Education 1 (Football 1) (*)	1	1	4			26		21		
8	1120173	Physical Education 2 (Football 2) (*)	2	1	4			26		21	1120172	
9	1120174	Physical Education 3 (Football 3) (*)	3	1	4			26		21	1120173	
10	1120175	Physical Education 1 (Volleyball 1) (*)	1	1	4			26		21		
11	1120176	Physical Education 2 (Volleyball 2) (*)	2	1	4			26		21	1120175	
12	1120177	Physical Education 3 (Volleyball 3) (*)	3	1	4			26		21	1120176	
13	1120178	Physical Education 1 (Basketball 1) (*)	1	1	4			26		21		

No	Course Code	Course Name	Semester	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Note
					Theory	Assignment	Discussion					
14	1120179	Physical Education 2 (Basketball 2) (*)	2	1	4			26		21	1120178	
15	1120180	Physical Education 3 (Basketball 3) (*)	3	1	4			26		21	1120179	
16	1120181	Physical Education 1 (Badminton 1) (*)	1	1	4			26		21		
17	1120182	Physical Education 2 (Badminton 2) (*)	2	1	4			26		21	1120181	
18	1120183	Physical Education 3 (Badminton 3) (*)	3	1	4			26		21	1120182	
19	1120184	Physical Education 1 (Vietnamese Traditional Matial Arts 1) (*)	1	1	4			26		21		
20	1120185	Physical Education 2 (Vietnamese Traditional Matial Arts 2) (*)	2	1	4			26		21	1120184	
21	1120186	Physical Education 3 (Vietnamese Traditional Matial Arts 3) (*)	3	1	4			26		21	1120185	
22	1120187	Physical Education 1 (Taekwondo Matial Arts 1) (*)	1	1	4			26		21		
23	1120188	Physical Education 2 (Taekwondo Matial Arts 2) (*)	2	1	4			26		21	1120187	
24	1120189	Physical Education 3 (Taekwondo Matial Arts 3) (*)	3	1	4			26		21	1120188	
25	1120190	Physical Education 1	1	1	4			26		21		

No	Course Code	Course Name	Semester	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Note
					Theory	Assignment	Discussion					
		(Karatedo Matial Arts 1) (*)										
26	1120191	Physical Education 2 (Karatedo Matial Arts 2) (*)	2	1	4			26		21	1120190	
27	1120192	Physical Education 3 (Karatedo Matial Arts 3) (*)	3	1	4			26		21	1120191	
28	1120239	Physical Education 1 (Pickleball 1) (*)	1	1	4			26		21		
29	1120240	Physical Education 2 (Pickleball 1) (*)	2	1	4			26		21	1120239	
30	1120241	National Defense and Security Education 1 (*)	3	1	4			26		21	1120240	
31	1120168	National Defense and Security Education 2 (*)	4	3	37		16			82		
32	1120169	National Defense and Security Education 3 (*)	4	2	22		16			52		
33	1120170	National Defense and Security Education 4 (*)	4	2	14			32		44		
34	1120171	National Defense and Security Education 1 (*)	4	2	4			52		34	1120170	
I.3. Foreign Language				7								
35	1090061	English 1	1	3	45					90		
36	1090166	English 2	2	4	60					120	1090061	
I.4. Social Sciences and Humanities/Mathematics, Natural Science - Environment, Management Science				4	4							
37	1150422	Enterpreneurship	5	2	25		10			55		

No	Course Code	Course Name	Semester	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Note
					Theory	Assignment	Discussion					
38	2030003	Communication Skills	2	2	18		4	20		48		
II. Professional Knowledge				111								
II.1. Fundamental Knowledge				33								
II.1.1. Compulsory Courses				29	20							
39	1010479	Mathematical statistics	1	2	30					60		
40	2020626	Soil chemistry	1	2	24	6				60		
41	2020627	Earth sciences	1	2	25		10			55		
42	1050240	Basic Information	1	3	30			30		75		
43	2020628	General Cartography	2	2	25	5				60		
44	2020636	Basis Geodesy	2	3	30			30		75		
45	2020121	Basis of soil	2	2	25		10			55		
46	2020549	Geography of Viet Nam	2	2	25		10			55		
47	2020728	Fundamentals of remote sensing	3	2	21			18		51		
48	2020729	Geographic Information System	3	2	21			18		51		
49	1080199	State management of land	3	3	40		10			85		
50	2020553	Environmental Impact Assessment	4	2	20	5	10			55	2020733	
51	2020730	Scientific research methods in natural resources and environment	4	2	20		10	10		50		
II.1.2. Elective Courses (4/14)				4								
52	1080279	The overall planning development of economic - social	3	2	25		10			55		
53	2020629	Cultural Geography of Vietnam	2	2	25		10			55		
54	2020731	Landscape planning	3	2	25		10			55		
55	1080194	Fundamentals on rational use of natural resources	2	2	25		10			55		
56	1130370	State administrative organization management	2	2	25		10			55		
57	2020732	Land Management in the Context of Climate Change	4	2	25		10			55		

[illegible]

No	Course Code	Course Name	Semester	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Note
					Theory	Assignment	Discussion					
		real estate business										
77	2020742	Public services on Land	5	2	25		10			55	1080199	
78	2020743	Basic land investigation	5	2	25			10		55	1080199	
79	2020744	Administrative Division Boundary Management	6	2	25		10			55	1080199	
80	2020745	Sustainable management and use of agricultural land	6	2	25		10			55	2020128	
81	1080216	Agriculture & Irrigation and water conservancy System	6	2	25		10			55	2020128	
82	2020746	Land inspection	7	2	25		10			55	1080199	
83	2020134	Livelihoods in changing land use	7	2	25		10			55	1080194	
84	2020747	Feng Shui and applicable Geography	7	2	20		10	10		50	2020552	
II.3. Supplementary Knowledge				29								
II.3.1. Professional training				22								
<i>Compulsory Courses</i>				16	18							
85	1090004	Academic english for land management	4	2	30					60		
86	2020748	Application of Information Technology in Cartography	4	2	21			18		51	2020124	
87	1080213	Application of GNSS technology in cadastral surveying	5	2	25			10		55	2020124	
88	2020749	Practical Applications of Remote Sensing and GIS	4	2	0			60		30	2020728	
89	1080217	Community consultation in land management	6	2	25		10			55	1080199	
90	2020750	Critical Thinking and Teamwork Skills	6	2	25			10		55		
91	2020751	Application of UAV technology in thematic mapping	6	2	21			18		51	2020124	

No	Course Code	Course Name	Semester	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Note
					Theory	Assignment	Discussion					
92	2020149	Community consultation in land management	6	2	20			20		50	1080199	
Elective Courses (6/14)				6								
93	1080221	WebGIS Applications in Land and Environmental Management	7	2	25			10		55	2020150	
94	2020150	Basic Programming in Land Management	4	2	20			20		50	1050240	
95	2020752	GIS Applications in Urban Construction Planning and Management	4	2	20			20		50	2020729	
96	1050437	Application of Artificial Intelligence (AI) in Natural Resources and Environmental Management	7	2	21			18		51		
97	2020753	Applications of Remote Sensing in Agriculture	7	2	20			20		50	2020728	
98	1080215	Engineering Surveying	4	2	30					60		
99	2020754	Digital transformation in Land administration	5	2	25		10			55		
100	2020755	Modeling in Environmental and Resource Management	5	2	25			10		55		
II.3.2. Internships				7								
101	2020153	Specialized Internship 1: Cadastral Technology	6	1					x			
102	2020756	Exercise problem 2: State management of land	7	1					x			
103	2020155	Graduation Internship	8	5					x			
II.4. Bachelor Thesis, Alternative courses				6								
104	2020156	Bachelor thesis	8	6								
Alternative courses				6								
105	2020556	Land use planning in an integrated approach	8	3	40		10			85		

No	Course Code	Course Name	Semester	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Note
					Theory	Assignment	Discussion					
106	1080224	Geomatics application in land management	8	3	40			10		85		
Total				135								

9. TENTATIVE TEACHING PLAN

Semester 1

No	Course code	Course Name	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Department in charge	Note
				Theory	Assignment	Discussion						
1	1130299	Marxist–Leninist Philosophy	3	40		10			85		DPLSM	
2	1130049	Introduction to Law	2	27		6			57	1130045	DPLSM	
3	1090061	English 1	3	45					90		DFL	
4	1010479	Mathematical statistics	2	30					60		DMS	
5	2020626	Soil chemistry	2	24	6				60		DNS	
6	2020627	Earth sciences	2	25		10			55		DNS	
7	1050240	Basic Information	3	30			30		75		DIT	
Total:			17									

Semester 2

No	Course code	Course Name	Num ber of cre dits	In-class Hours			Exper iment/ Practi ce	Others	Self- study Hours	Prerequi site Course Code	Department in charge	Note
				The ory	Assi gnm ent	Disc ussion						
Compulsory Courses			17									
1	1130300	Political economics of marxism and leninism	2	27		6			57		DPLSM	
2	1090166	English 2	4	60					120	1090061	DFL	
3	2030003	Communication Skills	2	18		4	20		48		DSSH	
4	2020628	General Cartography	2	25	5				60		DNS	
5	2020636	Basis Geodesy	3	30			30		75		DNS	
6	2020121	Basis of soil	2	25		10			55		DNS	
7	2020549	Geography of Viet Nam	2	25		10			55		DNS	
Elective Courses (2/6)			2									
8	2020629	Cultural Geography of Vietnam	2	25		10			55		DNS	
9	1080194	Fundamentals on rational use of natural resources	2	25		10			55		DNS	
10	1130370	State administrative	2	25		10			55		DPLSM	

No	Course code	Course Name	Number of credits	In-class Hours			Experiment/Practi- ce	Others	Self-study Hours	Prerequisite Course Code	Department in charge	Note
				Theory	Assignment	Discussion						
		organization management										
Total:			19									

Semester 3

No	Course code	Course	Number of credits	In-class Hours			Experiment/Practi- ce	Others	Self-study Hours	Prerequisite site Course Code	Department in charge	Note
				Theory	Assignment	Discussion						
Compulsory			15									
1	1130301	Scientific Socialism	2	27		6			57		DPLSM	
2	2020728	Fundamentals of remote sensing	2	21			18		51		DNS	
3	2020729	Geographic Information System	2	21			18		51		DNS	
4	1080199	State management of land	3	40		10			85		DNS	
5	2020124	Cadastral Map	2	25		10			55		DNS	
6	2020734	Measuring data processing method	2	20	10				60		DNS	
7	2020735	Surveying, measuring topography	2	25			10		55		DNS	
Elective Courses (2/6)			2									
8	1080279	The overall planning development of economic - social	2	25		10			55		DNS	
9	2020731	Landscape planning	2	25		10			55		DNS	
10	2020733	Natural Resource and Environmental Management	2	25		10			55		DNS	
Total:			17									

Semester 4

No	Course code	Course Name	Number of credits	In-class Hours			Experiment/Practi- ce	Others	Self-study Hours	Prerequisite Course Code	Department in charge	Note
				Theory	Assignment	Discussion						
Compulsory Courses			14									
1	1130302	History of the Communist Party of Vietnam	2	27		6			57		DPLSM	
2	2020553	Environmental Impact Assesment	2	20	5	10			55	2020733	DNS	
3	2020730	Scientific research methods in natural resources and environment	2	20		10	10		50		DNS	
4	2020128	Land evaluation	2	20			20		50		DNS	

[illegible]

Semester 5

[illegible]

[illegible]

Semester 6

[illegible]

Semester 7

[illegible]

Semester 8

[illegible]

No	Course code	Course Name	Number of credits	In-class Hours			Experiment/ Practice	Others	Self-study Hours	Prerequisite Course Code	Department in charge	Note
				Theory	Assignment	Discussion						
1	2020155	Graduation Internship	5					x			DNS	
2	2020156	Bachelor thesis	6								DNS	
Alternative courses												
3	2020556	Land use planning in an integrated approach	3	40		10			85		DNS	
4	1080224	Geomatics application in land management	3	40			10		85		DNS	

10. GUIDELINES FOR PROGRAM IMPLEMENTATION

- The Land Management program will be applied from the 2025 enrollment period for students majoring in Land Management.

- The training process is based on the designed curriculum, training objectives, target audience, human resource requirements, and specific training requirements. For elective courses, depending on current development and social needs, the Faculty will advise students on appropriate course choices.

- The Head of the Faculty is responsible for organizing and guiding the principles for developing detailed syllabi to ensure that objectives, content, and requirements are met, while also satisfying the needs of learners and society.

- The training program will be reviewed and updated at least every two years to meet the development of the Land Management field and align with socio-economic development needs.

Gia Lai, August 01, 2025

RECTOR

Assoc. Prof. Dr. Doan Duc Tung