### UNDERGRADUATE PROGRAM

(Issued together with Decision No. /QĐ-ĐHNCT dated / /2025 of The Rector of Nam Can Tho University)

(Name of program): Undergraduate Program in Land Management

(Level): Full-time Undergraduate

(Major): Land Management

(Code): **7850103** 

(Type of education): Full-time

### 1. Program description

### **1.1. Introduction to the program**

The undergraduate program in Land Management trains graduates with sufficient knowledge, skills, political qualities, ethics, professional demeanor, and good health to work effectively in fields related to Land Management.

#### 1.2. General information about the program

Name of program in English	Land Management
Program code	7850103
Degree-granting institution	Nam Can Tho University
Degree	Bachelor of Land Management
Level	Undergraduate
The number of required credits	136
Type of education	Full-time
Program duration	4 years
Eligible candidates for admission	High school graduates
Grading scale	5
	- Accumulate sufficient credits and volume of
	the training program, totaling 136 credits;
Graduation requirements	- Achieve a cumulative GPA of at least 5.0 for
	the entire course;
	- Meet the university's standards for English
	and IT proficiency;

	-							
	- Meet the standards for soft skills and professional skills;							
	- Obtain a certificate in National Defense and Security Education and complete prerequisite courses.							
Job opportunities	<ul> <li>Staff at companies specializing in surveying, mapping, planning, geodesy, and real estate;</li> <li>Officials working in departments and agencies related to Land Management;</li> <li>Lecturers, researchers, consultants, and technology transfer specialists at universities, colleges, vocational schools, research institutes,</li> </ul>							
Postgraduate study options	Eligible to pursue master's and doctoral programs domestically and internationally.							
Reference program	The training program and output standards for Land Management of Can Tho University, Ho Chi Minh City University of Agriculture and Forestry, and Ho Chi Minh City University of Natural Resources and Environment.							
Update time	12/2024							

# 1.3. Program goals

# 1.3.1. General goals

**PO:** Train human resources in Land Management at the undergraduate level with good political qualities and a strong sense of community service, ethics, and health, mastering Land Management expertise to serve land management tasks from central to local levels. Graduates will apply learned knowledge to solve real-world problems, possess self-learning abilities, communication and teamwork skills, and have solid theoretical and practical expertise, applying advanced technologies to effectively address scientific and technical issues in Land Management.

# 1.3.2. Specific goals

- **PO1:** Understand and apply foundational and advanced knowledge in Land Management to professional tasks.
- **PO2:** Develop professional ideas in Land Management and build management and operational skills at individual and team levels.
- **PO3:** Meet professional and soft skill requirements from society, workplaces, and research environments.
- **PO4:** Organize and execute professional Land Management tasks, fostering creativity in work.

**PO5:** Develop self-learning and research capabilities in the field, enhancing corresponding skills in life and guiding others to improve societal living standards.

# **1.4. Student learning outcomes**

# a. Knowledge

- **SO1:** Apply basic knowledge of politics, law, social sciences, and state management to Land Management tasks.
- **SO2:** Achieve the required proficiency levels in foreign languages and IT as stipulated by the Ministry of Education and Training.
- **SO3:** Analyze factors affecting Land Management, such as planning, climate change, and urbanization.
- **SO4:** Evaluate the effectiveness of Land Management under current policies and legal regulations.

### b. Skills

- **SO5:** Perform skills in surveying, mapping, remote sensing, statistics, and data analysis in Land Management.
- **SO6:** Enhance communication, teamwork, and digital skills to meet job requirements.
- **SO7:** Present current issues, develop research ideas, improve work practices, and foster entrepreneurship.

# c. Capacity for autonomy and responsibility

- **SO08:** Demonstrate responsibility to the community and professional ethics in Land Management.
- **SO09:** Develop lifelong learning skills, critical thinking, and leadership in the field of Land Management.

# 1.5 Teaching and learning methods/strategies and assessment methods

### 1.5.1. Teaching and learning methods/strategies

### The teaching methods are presented in the table below

Methods and form of teaching	Purpose
Presentation	Systematically convey knowledge, helping learners grasp basic and core content.
Discussion	Develop critical thinking, communication skills, and teamwork abilities.
Assignment	Reinforce and apply learned knowledge, honing practical problem-solving skills.

Self-study, reading of	Develop self-learning abilities, deepen knowledge, and
reference materials	expand understanding beyond lectures.

No.	Form	%	Assessment criteria	Maximu m score
1	Attendance	10	<ul> <li>Proactivity, level of active preparation, and participation in class activities.</li> <li>Attendance time in mandatory classes.</li> </ul>	10
2	Indididual assignment	15	Quality of submitted work.	10
3	Progress assessment	15	Based on the instructor's answer key and grading scale.	10
4	Final exam	60	Based on the instructor's answer key and grading scale.	10

## 1.5.2. Grading scale, form, assessment criteria, and weight of scores

### 2. Program duration: 4 years

### 3. Required total credits

Required total credits: 136 credits (excluding the Physical Education and Defense and security education courses), distributed as follows:

Knowledge	Obligatory knowledge	Elective knowledg e	Total
General knowledge	44	0	44
Professional knowledge	82	10	92
Fundamental knowledge	36	2	38
Specialized knowledge	42	2	44
Graduation internship	4		4
Graduation thesis/Alternative courses		6	6
Total	126	10	136

### 4. Eligible candidates for admission

Admission is based on the results of the national high school graduation exam or the academic transcript from high school, evaluated according to the subject combinations for the major, with recruitment conducted nationwide.

### 5. Curriculum, graduation requirements

### 5.1. Curriculum

The training follows the regulations for full-time undergraduate and college

programs under the credit system and the current training regulations of Nam Can Tho University.

### 5.2. Graduation requirements

- Students who complete the training program will be evaluated for graduation and recognized as graduates according to Article 27 of the credit-based training regulations.

- Achieve the university's required proficiency in English and IT (for IT, meet modules 01 to 06 of the IT skills standard per Circular 03/2014/TT-BTTTT).

- Obtain certificates in National Defense and Security Education, Physical Education, soft skills, and professional skills.

- Assessment of component scores and course scores follows Articles 22 and 23 of the credit-based training regulations.

- Academic year ranking and graduation ranking are conducted per Articles 14 and 28 of the credit-based training regulations.

### 6. Program structure

### 6.1. General knowledge

No.	Course code	Course name	Number of credits	Theory	Practice	Category	
Α	Political th	eory				-	
1.	01010008 89	Philosophy	3	3			
2.	01010006 41	Political Economy	2	2			
3.	01010008 90	Scientific Socialism	2	2			
4.	01010009 00	Ho Chi Minh Ideology	2	2			
5.	01010008 69	History of the Communist Party of Vietnam	2	2			
B	Social Scie	nces and Humanitie	S				
6.	01010008 91	General Law	2	2			
7.	01010006 44	Economics	2	2			
С	Foreign languages						
8.	01010008 61	Basic English 1	3	3			

No.	Course code	Course name	Number of credits	Theory	Practice	Category
9.	01010008 62	Basic English 2	3	3		
10.	01010008 63	Basic English 3	3	3		
11.	01010023 48	Basic English 4	3	3		
12.	01010023 63	Basic English 5	3	3		
D	Mathematic	es - Information Tech	nology - Nat	ural Scienc	es	
13.	01010008 96	Basic Informatics	3	2	1	
14.	01010008 98	Advanced Mathematics 1	3	3		
15.	01010008 83	Probability and Mathematical Statistics	3	3		
16.	01010009 02	General Physics	2	2		
17.	01010009 60	General Physics - Practice	1		1	
18.	01020008 81	General Logic	2	2		
E	Physical ed	lucation				
19.	01010008 72	Physical Education 1 (*)	1		1	CON
20.	01010008 73	Physical Education 2 (*)	1		1	CON
21.	01010008 74	Physical Education 3 (*)	1		1	CON
F	National De	efense Education				
22.	01010008 71	National Defense Education (*)	8	5	3	CON

(\*) Prerequisite courses, not included in the cumulative GPA calculation

# 6.2. Professional knowledge

No.	Course code	Course name	Numbe r of credits	Theory	Practice	Category
Funda	Fundamental knowledge					
23.	010100 0303	Meteorology and Hydrology	2	2		OBL
24.	010100 0246	General Geology	2	2		OBL

No.	Course code	Course name	Numbe r of credits	Theory	Practice	Category
25.		Innovation and Entrepreneurship	2	1	1	OBL
26.	010100 0135	Applied Informatics in Technology 1 (AutoCAD 2D)	2		2	OBL
27.	010100 0154	Geodesy	2	2		OBL
28.	010100 0155	Geodesy - Practice	2		2	OBL
29.	010100 0243	Land Evaluation	2	2		OBL
30.	010100 0283	Cadastral Mapping Techniques	3	3		OBL
31.	010100 0249	Wetland Ecosystems	2	2		OBL
32.	010100 0253	Geographic Information Systems and Remote Sensing	2	2		OBL
33.	010100 0254	Geographic Information Systems and Remote Sensing - Practice	1		1	OBL
34.	010100 0399	Land Statistics and Inventory	2	2		OBL
35.	010100 0310	Cadastral Records Storage and Management	2	2		OBL
36.	010100 0350	Scientific Research Methods in Land Studies	2	2		OBL
37.	010100 0745	Natural Resources and Environmental Law	2	2		OBL
38.	010100 0038	Environmental Impact Assessment	2	2		OBL
39.	010100 0779	Investment Project Management	2	2		OBL
40.	010100 0282	Environmental Resource Economics	2	2		OBL

No.	Course code	Course name	Numbe r of credits	Theory	Practice	Category
41.	010100 0353	Land-Crop Relations	2	2		ELE
42.	010100 0251	Farming Systems	2	2		ELE
43.	010100 1552	Specialized Report - Land Management	2	2		ELE
44.	010100 0321	Environment and Urban Development	2	2		ELE
Specia	lized know	ledge				
45.	010100 0002	English for Land Management 1	3	3		OBL
46.		English for Land Management 2	3	3		OBL
47.	010100 0329	Land Classification and Valuation	2	2		OBL
48.	010100 0352	PRA Methods in Land Inventory and Survey	2	2		OBL
49.	010100 0358	Administrative Land Management	2	2		OBL
50.	010100 0376	Rural Development Planning	2	2		OBL
51.	010100 0419	Applied Remote Sensing in Cadastral Studies	2	2		OBL
52.	010100 0418	Applied Remote Sensing in Cadastral Studies - Practice	2		2	OBL
53.	010100 0039	And Registration and Certification - Project	2		2	OBL
54.	010100 0368	Land Information Management LIS/LIM	1	1		OBL
55.	010100 0967	Land Information Management LIS/LIM - Practice	2		2	OBL
56.	010100 0375	Urban Development Planning	2	2		OBL

No.	Course code	Course name	Numbe r of credits	Theory	Practice	Category	
57.	010100 0679	Land Law	3	3		OBL	
58.	010100 0341	Analysis and Design of Cadastral Information Systems	2	2		OBL	
59.	010100 0370	Real Estate Market Management and Analysis	2	2		OBL	
60.	010100 0377	Land Use Planning	3	3		OBL	
61.	010100 1544	Professional Training: Land Management	2		2	OBL	
62.	010100 0395	Land Inspection and Dispute Resolution	3	3		OBL	
63.	010100 0369	Land Resource Management	2	2		OBL	
Electiv	ve course o	f specialized knowledg	e				
64.	010100 0248	Cadastral Database Management System	2	2		ELE	
65.	010100 1547	Urban Landscape Design	2	2		ELE	
66.	010100 0250	Agricultural Ecosystems	2	2		ELE	
67.	010100 0385	Environmental Ecology and Climate Change	2	2		ELE	
Gradu	ation inter	nship					
68.	010100 0409	Graduation Internship (Land Management	4		4	OBL	
Gradu	Graduation thesis/Alternative courses						
69.	010100 0305	Graduation thesis/Alternative courses	6		6	OBL/ELE	
Alter	native cou	rses					
70.	010100 0345	Feng Shui	2	2		OBL/ELE	

No.	Course code	Course name	Numbe r of credits	Theory	Practice	Category
71.	010100 1348	Real Estate Valuation in Land Management - Project	4	1	3	OBL/ELE

# 7. Tentative teaching plan

### 7.1. Semester 1

		Number	Total	Class periods		
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Philosophy	3	45	45	0	
2	Political Economy	2	30	30	0	
3	Basic English 1	3	45	45	0	
4	Advanced Mathematics	3	45	45	0	
5	Basic Informatics	3	60	30	30	
6	Physical Education 1	1	30	0	30	CON
	Total	14	225	195	30	

# 7.2. Semester 2

		Number	Total	Class periods		
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Ho Chi Minh Ideology	2	30	30	0	
2	Basic English 2	3	45	45	0	
3	General Logic	2	30	30	0	
4	General Physics	2	30	30	0	
5	General Physics - Practice	1	30	0	30	
6	National Defense Education	8	120	75	90	CON
7	Physical Education 2	1	30	0	30	CON
	Total	10	165	135	30	

# 7.3. Semester 3

		Number	Total	Class	~	
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Basic English 3	3	45	45		
2	Basic English 4	3	45	45		
3	Scientific Socialism	2	30	30		
4	General Law	2	30	30		
5	Physical Education 3	1	30	0	30	CON

		Number	Total	Class		
No.	Course name	of credits	perio ds	Theory	Practice	Category
6	General Geology	2	30	30		
	Total	12	180	180	0	

# 7.4. Semester 4

		Number	Total	<b>Class periods</b>		
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Basic English 5	3	45	45	0	
2	Probability and Mathematical Statistics	3	45	45	0	
3	Meteorology and Hydrology	2	30	30	0	
4	Economics	2	30	30	0	
5	Applied Informatics in Technology 1 (AutoCAD 2D)	2	60	0	60	
	Total	12	210	150	60	

# 7.5. Semester 5

	Course name	Number	Total	Class	periods	Category
No.		of credits	perio ds	Theory	Practice	
1	Geodesy	2	30	30	0	
2	Geodesy - Practice	2	60	0	60	
3	Wetland Ecosystems	2	30	30	0	
4	Innovation and Entrepreneurship	2	30	30	0	
5	English for Land Management 1	3	45	45	0	
6	History of the Communist Party of Vietnam	2	30	30	0	
	Total	13	225	165	60	

# 7.6. Semester 6

		Number	Total	<b>Class periods</b>		
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Land Evaluation	2	30	30	0	
2	Cadastral Mapping Techniques	3	45	45	0	
3	English for Land Management 2	3	45	45	0	

	-	Number of credits	Total	Class periods		
No.	Course name		perio ds	Theory	Practice	Category
4	Geographic Information Systems and Remote Sensing	2	30	30	0	
5	Geographic Information Systems and Remote Sensing - Practice	1	30	0	30	
	Total	11	180	150	30	

# 7.7. Semester 7

		Number	Total	Class periods		
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Land Statistics and Inventory	2	30	30	0	
2	Land Classification and Valuation	2	30	30	0	
3	Applied Remote Sensing in Cadastral Studies	2	30	30	0	
4	Applied Remote Sensing in Cadastral Studies - Practice	2	60	0	60	
5	Land Law	3	45	45	0	
	Total	11	195	135	60	

# 7.8. Semester 8

		Number	Total	Class	periods	
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Cadastral Records Storage and Management	2	30	30	0	
2	Scientific Research Methods in Land Studies	2	30	30	0	
3	Natural Resources and Environmental Law	2	30	30	0	
4	PRA Methods in Land Inventory and Survey	2	30	30	0	
5	Administrative Land Management	2	30	30	0	
	Total	10	150	150	0	

7.9. Semester 9

		Number	Total	Class	periods	
No.	Course name	of credits	perio ds	Theory	Practice	Category
1	Environmental Impact Assessment	2	30	30	0	
2	Rural Development Planning	2	30	30	0	
3	Urban Development Planning	2	30	30	0	
4	Land Information Management LIS/LIM	1	15	15	0	
5	Land Information Management LIS/LIM - Practice	2	30	0	60	
6	Land-Crop Relations	2	30	30	0	
	Total	11	195	135	60	

# 7.10. Semester 10

	Course name	Number	Total	Class periods		
No.		of credits	perio ds	Theory	Practice	Category
1	Investment Project Management	2	30	30	0	
2	Environmental Resource Economics	2	30	30	0	
3	And Registration and Certification - Project	2	30	30	0	
4	Analysis and Design of Cadastral Information Systems	2	30	30	0	
5	Real Estate Market Management and Analysis	2	30	30	0	
	Total	10	150	150	0	

# 7.11. Semester 11

No.	Course name	Number	Total	Class	periods	
		of credits	perio ds	Theory	Practice	Category
1	Land Use Planning	3	45	45	0	
2	Land Inspection and Dispute Resolution	3	45	45	0	
3	Land Resource Management	2	30	30	0	

No.	Course name	Number of credits	Total	Class	periods	Category
			perio ds	Theory	Practice	
4	Professional Training: Land Management	2	60	0	60	
5	Cadastral Database Management System	2	30	30	0	
	Total	12	210	150	60	

### 7.12. Semester 12

	Course name		Number of credits	Total	tal Class perio		
No.				perio ds	Theory	Practice	Category
1	Feng Shui	Choo	2	30	30	0	
2	Real Estate Valuation in Land Management - Project	se thesis or altern ative *	4	105	15	90	
3	Graduation Internship (Land Management)		6	180	0	180	
4	Graduation Internship (Land Management)		4	120	0	120	
	Total		10				

(\*) If students do not meet the requirements to complete their graduation thesis, they will take alternative courses.

### 8. Guidelines for Program Implementation

### 8.1 Faculties and departments

- The faculty responsible for the academic program shall review and lead the development of detailed course outlines for fundamental, major, and specialized courses in accordance with the credit volume of this program. Provide a list of textbooks, lecture materials, and reference materials for all courses to the university library and keep them at the faculty office. At the beginning of each semester, coordinate with university units to implement the training plan on schedule.

- Assign lecturers with at least a master's degree (in the same or related fields) to teach theoretical courses, providing detailed course outlines to ensure alignment with the university's teaching plan.

- Academic advisors must thoroughly understand the entire credit-based training program to guide students in registering for courses.

### 8.2 Lecturers

- When assigned to teach one or more courses, lecturers must thoroughly study the detailed course outline to prepare lectures and appropriate teaching aids.

- Lecturers must prepare comprehensive lecture materials, textbooks, and learning resources and provide them to students for preparation before class.

- Organize seminars, emphasize group learning, and guide students in writing essays and projects. Lecturers shall determine teaching methods, deliver presentations in class, facilitate discussions, address issues in class, practice rooms, or laboratories, and guide students in writing reports.

- Focus on developing students' self-learning and research abilities throughout the teaching and practical guidance process.

- Pay attention to the logical delivery and assimilation of knowledge blocks, specify prerequisite courses for mandatory courses, and prepare to meet the teaching requirements for elective courses.

### 8.3 Students

- Students must consult academic advisors to select courses appropriate to their progress. They must study the material before class to better absorb lectures. Ensure sufficient class attendance to follow the lecturer's guidance. Be proactive in self-learning and research, actively participate in group learning, and attend all seminars.

- Actively and proactively utilize online resources and the university library to support self-learning, research, and completion of the graduation project. Strictly adhere to examination and assessment regulations.

- Regularly participate in extracurricular, cultural, sports, and arts activities to develop communication skills and social and human understanding.

#### 8.4 Facilities and equipment for teaching, practice, and internships

- Theoretical classrooms equipped with traditional tools and additional teaching aids (projectors).

- Computer practice rooms installed with software for basic IT training.

- Practice rooms for basic physics courses equipped with tools for visual training.

- Machinery and equipment: electronic total stations, leveling instruments, etc., for practical surveying courses.

# RECTORDEPARTMENT OF<br/>ACADEMIC AFFAIRSFACULTY