

UNIVERSITY CURRICULUM

Name of program: LAND MANAGEMENT

Level: UNDERGRADUATE

Major: LAND MANAGEMENT

Major Code: 7850103

Type of training: Full time

1. Objective and Outcome standards:

1.1. Objectives: Training Land Management engineers who have political qualities and good morality, knowledge and capacities to commensurate with the undergraduate level; have the health to meet the requirements of the the industrialization and modernization of the country; to build Vietnam for the goal of rich people, strong country, fair, democratic and civilized society.

1.2. Outcome standards

1.2.1. Knowledge

+ Having the basic knowledge about national military and people's security, the Party's opinion and the State's policies on national military and security ; traditional anti-aggression of the nation, people's Armed Forces and Military Art of Vietnam; building the entire people's military, the people's security and the people's armed forces; having basic knowledge of civil defense, military skills; Ready to implement military duty to defend the country.

+ Understanding, analyzing and evaluating the scientific knowledge system about : the basic principles of Marxism-Leninism ; Ho Chi Minh Ideology; guidelines of the Party and laws of the State; applying these scientific knowledge into the real life.

+ Understanding and applying the knowledge in natural sciences such as Mathematics, Physics, Chemistry, Social Sciences and Humanities to solve the issues related to land use and land management.

+ Applying the knowledge in geodesy, cartography, remote sensing and GIS to establish the thematic maps, build land database in land use and land management, for developing new knowledge, studying at a higher level.

+ Applying the knowledge in pedology, Hydrology in Water Resources, Sloping land and soil erosion and land evaluation to allocate land use for agricultural production for each territory.

+ Applying knowledge in cartography, land evaluation, land information system, orientation for economic, social, environment and urban development to establish land use planning, rural development, selection of investment projects and effective management of land resources.

+ Analyzing, evaluating and applying the knowledge in land management to solve the issues of land registration and statistics, land allocation and reclaime, real estate market, land evaluation in the reality of socio-economic development.

+ Applying the knowledge in land law, economic management, land economics and environment to solve the issues of land use and management.

1.2.2. Skills

+ Proficiency in techniques, geodesic type, softwares and technologies in land management (GPS, photogrammetry – remote sensing) to measure, build land information system, establish Cadastral Map and types of thematic maps for land use and management.

+ Evaluating the potentials, land use efficiencies and establishing land use plans, Relevant branch plannings for land management and socio-economic development requirements;

+ Establishing land registration system, granting certificates for the land use right, building land value, real estate for land management.

+ Taking initiative in developing and proposing solutions for new issues related to cartographical measure, land use planning, land administration.

+ Applying the knowledge in land law, Cadastral Map and land use planning for solving disputes, complaints related to land in accordance to the law.

+ Analyzing, synthesizing and evaluating land database for the utilization in land use planning and management.

+ Combination of the profesional knowledge for proposing plans and solving the real issues: land management, mapping measure, land use planning at different level.

+ Understanding and applying the basic knowledge of information technology, the issues of working safety, environmental protection in utilizing information technology and media, and some basic issues related to the law in utilizing information technology; proficiency in using computer and some basic softwares like Word, Excel, Powerpoint; proficiency in using GIS, LIS for map, land database for land use and management.

+ The minimum English level that students need to get is TOIC 400 and the equivalent. Students can understand simple conversations; understand main ideas in the social life. Students can take simple dialogues; express limited opinions on the cultural, social and deal with some common profesional situations. Students can read and understand the popular documents related to the familiar cultural and social issues in English; exchange the profesional knowledge in land management, water resources, soil science and fertilizers.

1.2.3. Capacity of self control and responsibility

+ Believing in Marxism and Lennism, Ho Chi Minh Ideology, at the same time, doing well the citizen's duties toward the Party's line and the State's law.

- + Good adaptation to political, security and socio-economic situation in and outside the country.
- + Updating and synthesizing knowledge and information related to the political – social, policies, State’s law of land use and management, technologies and techniques in measuring for developing and proposing solutions for the good implementation in land use and management.
- + Understanding and agreeing with the social context, surroundings and organizations that impact on land use and management.
- + Having coherent thinking, giving solutions for new problems in mapping measure, land use planning, land administration.
- + Synthesizing and giving conclusions in the process of implementing land administration and the efficiency in land use.
- + Guiding the implementation of professional tasks related to land use planning at different levels and related sector planning.
- + Proposing new solutions in the process of implementing professional tasks in land management, at the same time, propagating well land policies and land law.
- + Building plans, implementing tasks, inspecting, monitoring the process, dealing with disputes and conflicts in the agencies.
- + Having independent thinking, interacting, managing, leading other individuals to carry out activities in land use and management.
- + Arranging, managing the personal time reasonable; working independently; having the ability to present in public; inspiring the listeners.
- + Loving the job, Be honest in reporting to colleagues and superiors; having responsibility for the tasks; strictly implementing the legal policies of the Party and the State.
- + Be aware of and respecting the opinions of others, assisting each other; interacting to build consensus in the groups.
- + Self-studying, accumulation of experience to improve the degree in land use and management.

1.2.4. Career orientation of the students after graduation

Students after graduating from the Land Management can take the position in specialists and leaders in:

- + Ministry of Natural Resources and Environment, Ministry of Agriculture and Rural Development, Ministry of Sciences and Technologies, Ministry of Finance.
- + General Department of Land Management, Research Institute of Land Management, Institute of measuring sciences and cartography, Institute of Planning and Agricultural design, Institute of Soils and Fertilizers, Association of Geodesy and Map Vietnam, Association of Soil Sciences, Vietnam Institute of Urban and Rural Planning, etc.
- + Departments of Natural Resources and Environment, Departments of Agriculture and Rural Development, Departments of Construction, Departments of Finance.
- + Natural Resources and Environment Offices, Urban Management Offices in the urban districts, Finance Offices in the rural districts and towns.

+ Officers of Land Administration - Construction, construction inspector in communes, wards and townships.

+ General company of Natural Resources and Environment, companies of measuring and map establishment.

+ Consultant centers of land use planning, constructional planning.

+ Centers of land value, real estate brokerage, real estate trading floor.

+ Lecturers in Land Management, Cadastral in the universities, colleges, intermediate schools.

1.2.5. Orientation to improve degrees after graduation

Students after graduating from the Land Management can be continuous to improve degrees in the following majors and specializations:

+ Master degree in Land Management;

+ Master degree Natural Resources and Management;

+ Master degree in Geodesy – Cartography, Cartography – Remote Sensing and GIS,

+ Doctor degree in Land Management;

+ Doctor degree in Natural Resources and Management;

+ Doctor degree in Geodesy – Cartography, Cartography – Remote Sensing and GIS,

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Training period: 4 years

Total volume of knowledge: 129 credits (Exception of physical education and military education)

Candidates:

Pupils who graduated high schools or supplement high school, passed the entrance examination by the Ministry of Education and Training

Training process, conditions for graduation:

According to the decision No 2397QD-HVN, 13rd of August 2015 about Regulations for teaching and studying full time undergraduate under the credit system of the Director of Vietnam National University of Agriculture.

Grading system: 10 then converts to 4

Contents (names and volumes of courses)

No	Code	Vietnamese name	English name	Number of Credits			Previous Course	Compulsory	Selective	Knowledge
				Total	Theory	Practice				
TOTAL GENERAL COURSES				39				35	4	
		Mác +Ngoại ngữ	Maxism – Lennism + Foreign Languages	16						General
1	TH01011	Toán cao cấp	Higher mathematics	3	3	0		x		
2	TH01018	Vật lý	Physics	2	2	0		x		

3	MT01001	Hóa học đại cương	Basic chemistry	2	1.5	0.5		x		
4	KT02003	Nguyên lý kinh tế	Principles of Economics	3	3	0		x		
5	ML01009	Pháp luật đại cương	Foundation law	2	2	0		x		
6	QL02008	Thổ nhưỡng đại cương	General Pedology	2	1.5	0.5	General Chemistry	x		
7	QL02026	Trắc địa 1	Geodesy 1	3	2	1	Higher mathematics	x		
8	NH03090	Trồng trọt cơ bản	Basic cultivation	2	1.5	0.5		x		
9	SN01016	Tâm lý học đại cương	Basic psychocology	2	2	0				x
10	TH01006	Đại số tuyến tính	Linear algebra	3	3	0				x
11	TH01009	Tin học đại cương	Basics of Informatics	2	1	1				x
12	QL01013	Bản đồ địa lý	Geographical map	2	1.5	0.5				x
TOTAL BASED MAJOR COURSES				24				22	2	
13	QL02027	Trắc địa 2	Geodesy2	2	1.5	0.5	Geodesy 1	x		
14	QL02029	Viễn thám	Remote sensing	2	1.5	0.5		x		
15	QL02023	Thực hành trắc địa	Geodesy: Practics	2	0	2	Geodesy 1	x		
16	QL02017	Bản đồ học	Cartography	2	1.5	0.5		x		
17	QL02019	Hệ thống thông tin địa lý	Geographic Information System (GIS)	2	2	0		x		
18	QL02020	Thực hành hệ thống thông tin địa lý	Geographic Information System Practice	1	0	1	Geographic Information System	x		
19	QL02009	Thổ nhưỡng chuyên khoa	Specialized Pedology	2	1.5	0.5	General Pedology	x		
20	QL03014	Đánh giá đất	Land Evaluation	2	2	0	Specialized Pedology	x		
21	QL01014	Quản lý nguồn nước	Water Resources Management	2	1.5	0.5		x		
22	QL03039	Quy hoạch tổng thể phát triển kinh tế xã hội	Master Planning	3	3	0		x		
23	MT02011	Quản lý môi trường	Environmental management	2	2	0		x		
24	QL01012	Bản đồ địa hình	Topographical Map	2	1.5	0.5	Geodesy 1			x
25	QL01017	Thủy văn nguồn nước	Hydrology in Water Resources	2	1.5	0.5	Physics			x
TOTAL MAJOR COURSES				66				59	7	
25	ML03025	Luật đất đai	Land Law	2	2	0		x		
26	SN03054	Tiếng anh chuyên ngành	English for Land Management	2	2	0	English 2	x		
27	QL03053	Tin học ứng dụng vẽ bản đồ	Applied informatics in	2	1	1	Geodesy 1	x		

Based Major

Major

			mapping						
28	QL03052	Hệ thống thông tin đất đai	Land Information System (LIS)	3	2	1	Geographic Information System	x	
29	QL02024	Trắc địa ảnh	Photogrammetry	2	1.5	0.5	Geodesy 1	x	
30	QL02016	Bản đồ địa chính	Cadastral Map	2	1.5	0.5		x	
31	QL03037	Quy hoạch sử dụng đất	Land Use Planning	3	3	0		x	
32	QL03038	Thực hành lập đồ án quy hoạch sử dụng đất	Project of Land Use Planning	2	0	2	Land Use Planning	x	
33	QL03028	Quản lý nhà nước về đất đai	Land Administration	2	2	0	Land Law	x	
34	QL03025	Đăng ký thống kê đất đai	Land registration and statistics	3	2	1	Land Administration	x	
35	QL03035	Quy hoạch phát triển nông thôn	Rural Development Planning	2	1.5	0.5		x	
36	QL03033	Quy hoạch đô thị và khu dân cư nông thôn	Urban and rural residentail Planning	3	2	1		x	
37	QL03026	Định giá đất	Land Valuation	3	2	1		x	
38	QL03029	Thanh tra đất	Land Inspection	2	1.5	0.5	Land Administration	x	
39	QL03041	Thị trường bất động sản	Real Estate market	2	2	0	Land Valuation	x	
40	QL03034	Quy hoạch môi trường	Environmental Planning	2	2	0		x	
41	QL03024	Bồi thường giải phóng mặt bằng	Land Compensation	2	2	0	Land Valuation	x	
42	KT03012	Kinh tế đất	Land Economics	2	2	0		x	
43	QL02022	Cơ sở dữ liệu đất đai	Land DataBase	2	1.5	0.5		x	
44	QL03027	Giao đất và thu hồi đất	Land Allocation and Reclaime	2	1.5	0.5	Land Law	x	
45	QL04002	Thực tập giáo trình	Fieldtrips	4	0	4	Land Administration, Land Use Planning	x	
46	QL02021	Hệ thống định vị toàn cầu	Global Positioning System	2	1	1	Geodesy 1		x
47	QL03077	Quản lý sàn giao dịch bất động sản	Real Estate Trade Center Management	2	2	0	Land Valuation		x
48	QL03050	Tham vấn cộng đồng trong quản lý đất đai	Community based land management	2	2	0			x
49	QL03040	Quy hoạch vùng	Regional Planning	3	2	0			x
50	QL03042	Phương pháp lập dự án đầu tư	Investment project design methods	2	2	0			x

51	QL03015	Đất dốc và xói mòn	<i>Sloping land and soil erosion</i>	2	2	0			x	
52	QL03036	Quy hoạch sản xuất nông nghiệp	<i>Agricultural planning</i>	2	1.5	0.5			x	
53	QL04998	Khóa luận tốt nghiệp	<i>Thesis</i>	10			Fieldtrips	x		
REPLACING THESIS				10						
54	QL03031	Phương pháp dự báo trong quy hoạch đất	<i>Forecasting methods in land use planning</i>	2	2	0	Land Use Planning		x	Major
55	QL03046	Hệ thống thông tin BĐS	<i>Real Estate Information system</i>	2	2	0	Geographic Information System		x	
56	QL03032	Quy hoạch cảnh quan	<i>Landscape planning</i>	2	2	0			x	
57	QL02025	Đo đạc địa chính	<i>Topographical measure</i>	2	1.5	0.5	Geodesy 1		x	
58	QL03030	Thuế bất động sản	<i>Real Estate Tax</i>	2	1.5	0.5			x	