

Ministry of Education and Sports

Savannakhet University

Faculty of Agriculture and Environment

No _____/.....

Savannakhet, Date ____/____/____

Course Syllabus

1 Program

Title of the study programme: Master of Science in Forest Resource Management
(MSc in FRM)

2 Course details

Course name: Non-Timber Forest Products Management

Course code: FOA04NTF21214

Number of credits (hours/week): 2(1-2-3)

Course type (tick the appropriate box): Required, Elective, Other, if other please explain:

Prerequisites courses: Forest Harvesting and Raw Timber Production

Semester, in which the course is taught: *tick the appropriate box below*

Year 1		Year 2	
Semester 1	Semester 2	Semester 1	Semester 2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3 Responsible unit:

Department: Department of Forestry Resource

Names and affiliations of lecturer(s): Dr. Somphong Chanthavong, Department of Forestry Resource, Agriculture and Environment Faculty, Savannakhet University, Lao PDR. Tel: +856 20 56789143, Email: somphongsku@gmail.com

4 Course description

The course will be provided to graduates the knowledge, skills and competences on plant species that can contribute the values of food, medicine, fat or lipid, and ornamentation, sustainable product harvest, oriented-market product processing, marketing and plant species selection in terms of economics to extent the farmers into oriented-market NTFP cultivation, methodology of allocating and managing the NTFP areas for their reproduction and to sustainably use in the future.

5. Course objectives

The course of NTFPs aims to provide graduates understanding the importance of NTFP identifies, NTFPs utilization, inventory technique, NTFP evaluation for social needs, management and restoration for sustainable use in the future.

Knowledge: Graduates shall have a solid knowledge on the NTFP categories, inventory technique and NTFP species for social needs, management and restoration for sustainable use in the future.

Skills: Graduates shall be able to apply knowledge and skills on inventory tools and management, harvesting technique. Moreover, they can evaluate the NTFPs and quantity NTFPs for sustainable utilization.

Application of theories to practice: Graduates must be able to apply theories, skills and experiences on NTFPs along with sustainable utilization, management and conservation.

Social knowledge and skills: Graduates become specialists/experts on NTFP management, utilization and conservation including identifies, NTFPs utilization, inventory technique, NTFP evaluation for social needs, management and restoration for sustainable use in the future. They can become managers and consultants in the field of forestry resource management specialized in NTFP management. They are competent to evaluate the NTFP management, utilization and conservation for solution of economic, environmental and basic social problems.

Learning objectives of particular modules

Module 1. Introduction to NTFPs, Definition and Importance of NTFP, a basic knowledge of NTFP management, utilization and conservation.

Module 2. Principles of sustainable NTFP management.

Module 3. Methods of NTFP surveys and Geographic Information System (GIS);

Module 4. Utilization and Methods of harvesting the NTFPs for sustainable use;

Module 5. NTFP marketing; and improvement of their values;

Module 6. Community based conservation of NTFPs

Module 7. Lao policy for NTFP management; utilization and conservation for sustainable use.

6. Course teaching methods

The course consists of lectures, seminars, group projects, assignments, and field trips. Graduates are required to develop projects or essays to show the dimensions of NTFP management, utilization and conservation (individual and group working projects). Attendance of the course lectures, seminars, and field trips is mandatory, except in cases of sickness or other health problems documented by a physician. In case of excused unattendance, students will elaborate an extra assignment on the topic of the lecture/seminar/ field trip they failed to attend.

7. Teaching plan

Week	Content	Method/activity	Hour
1	<p>Introduction to NTFP course</p> <ul style="list-style-type: none"> - Instruction to NTFPs; - Study plans: lectures, assignment and field trip; - Requirement of the study; - Evaluation system. 	Lecturer provides instruction on lesson plan, course description, expected learning outcomes. Students' assignment.	1
2-3	Theories		2
	Module 1: Introduction to NTFPs		
2-3	<p>1.1 Definition and Importance of NTFPs;</p> <p>1.2 Non timber forest products</p> <ul style="list-style-type: none"> -Edible plant products; -Edible animal products; -Medicinal products; 	Lecture on NTFPs, Video presentation, Q & A	2



	<ul style="list-style-type: none"> -Non-edible plant products -Non-edible animal products <p>1.3 Basic knowledge on NTFP management, utilization and conservation.</p> <ul style="list-style-type: none"> -Sustainable NTFP management; -Socio-economic framework for sustainable management of NTFPs; -Dynamics of NTFP uses; -NTFPs in rural economy: Who benefits? -Pathways to sustainable use of NTFPs -Community-based conservation of NTFPs. 		
	Practice		
	Module 1: Introducton to NTFPs		4
	Seminar topic: review of the development and management NTFPs in Laos and in Southeast Asian Countries	Presentation, video Group working activity.	
	Theories		
	Module 2: Principles and methods of NTFP management		1
4	<p>2.1 Principles of sustainable NTFP management;</p> <ul style="list-style-type: none"> -Principles of social and cultural needs; -Principles of ecological needs; -Principles of economic needs. <p>2.2 Metods for NTFP management</p>	Slides, LCD Presentation on the principles and methods of NTFPs management. Q & A.	



	<ul style="list-style-type: none"> -Enrichment planting or seeding; -Rotational collection; -Control on fire, grazing and shifting cultivation; -Establish preservation plots in each felling series; -Increase research efforts -Include management of NTFPs in working plan code. 		
	Practice		
	Module 2: Principles and methods of NTFP management		2
	Seminar topic: practical implications of principles and methods of NTFP management in Laos	Group discussions, panel discussions	
	Theories		
	Module 3. Field surveying methods of NTFPs		3
5-6-7	<ul style="list-style-type: none"> 3.1 NTFP species profiles; 3.2 Investigating and recording forest user treatments related to selected NTFP species; 3.3 Selected NTFP species inventory, census and off-take surveys. -NTFP species inventory; -Census of NTFP species; -Off-take surveys. 	Slides, LCD Presentation on the methods of field surveys of NTFPs management. Q & A.	
	Practice		
	Module 3. Field surveying methods of NTFPs		6



	Seminar topic: Practical field surveys of NTFPs in natural forests	Group working activities on the methods of field surveys.	
8-9	Theories		2
	Module 4. Methods of harvesting the NTFPs for sustainable uses		
	4.1 Role and current status of NTFP utilization; -Roles of NTFPs at community, regional and national levels; -Issue and strategies of NTFP utilization in Laos; 4.2 Sustainable NTFP Harvesting methods; 4.3 Production and harvesting management; 4.4 Improving production from the wild on a sustainable basis; 4.5 Improving harvesting technologies and reducing post harvest losses.	Slides, LCD Presentation on the methods of harvesting the NTFPs for sustainable use, Q & A.	
	Practice		4
	Module 4. Methods of harvesting the NTFPs for sustainable uses		
	Seminar topic: Methods of harvesting the NTFPs for sustainable uses	Group working activities, Q & A	
10	Mid-term Examination		2
	Module 1; 2; 3; and 4.		
11-12	Theories		2
	Module 5. NTFP marketing; and improvement of their values		



<p>5.1 Marketing information system (MIS) and markets for NTFPs</p> <ul style="list-style-type: none"> -The market for NTFPs; -Why is marketing information important? -Three steps in setting up the MIS <p>5.2 Economic value of NTFPs in Southeast Asia</p> <ul style="list-style-type: none"> -What is economic value and how should it be measured? -The household economy: Non-market aspects. -Trade and the household economy: Market aspects -The national economy and international trade. <p>5.3 Change</p> <ul style="list-style-type: none"> -Agents of change; -Change in NTFP management: Function and value; -Short-term factors of change: household decision-making parameters; -The impact of change on national and rural household economics. 	<p>Slides, LCD Presentation on marketing of NTFPs and improvement of their values, Q & A.</p>	
Practice		4
Module 5. NTFP marketing; and improvement of their values		

	Seminar topic: NTFPs marketing and improvement of their values	Slide, LCD presenting NTFPs marketing and improvement of their values. Group discussion and presentation, Q & A.	
13-14	Theories		2
	Module 6. Community-based conservation of NTFPs in Laos		
	6.1 Target outcomes for community-based conservation of NTFPs; 6.2 Strategic actions of community-based conservation of NTFPs; 6.3 Projects of NTFPs related to community-based conservation	Lecture, discussion, demonstration video on community-based conservation of NTFPs in Laos	
	Practice		4
	Module 6. Community-based conservation of NTFPs in Laos		
	Seminar topic: Community-based conservation of NTFPs in Laos	Presenting the community-based conservation of NTFPs in Laos, group discussion	
15-16	Theories		2
	Module 7. Lao policy for NTFP management; utilization and conservation for sustainable use.		
	7.1 Lao Forestry Law 7.2 Policies on NTFPs development and management in Laos 7.3 Road map/vision of sustainable use of NTFPs in Laos. 7.4. NTFPs management in international conventions	Slides, LCD presentation on marketing and improvement of their values. Q & A.	
	Practice		4
Module 7. Lao policies for NTFP management; utilization and conservation for sustainable use.			

	Seminar topic: Policies on sustainable use of NTFPs in Laos and international conventions.	Group working and present the results of policies of sustainable use of NTFPs in Laos, and international conventions.	
17	Theories		8
	Field trip		
	Practice		
	Field trip		
18	Theories		8
	Field trip		8
	Practice		
	Field trip		
19	Pre-final exam		3
	Theories		
	Practice		
20	Final exam		2
	Theories		
	Practice		

8. Material needs

8.1. Equipment purchased under FRAME PROJECT

- Teaching documentation
- Microscopes for some species of NTFPs
- Computers and laptops
- LCD, Video presentation, GPS, and GIS software
- Equipment for field surveys

8.2 Information sources

- Websites, and internet channels
- Magazines and newspapers
- Library
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9. References

9.1 Compulsory reading list

- Dobelmann, J.K., D.-I. A. Klauss-Vorreiter et al. 2006. Study on solar and biomass energy potential and feasibility in Lao PDR. Asia Pro Eco project TH/Asia Pro Eco/05(101302). Funded by European Commission.
- Foppes, J. and S. Ketphanh. 2000. Forest extraction or cultivation? Local solutions from Lao PDR. Paper presented at Workshop on the Evolution and Sustainability of “Immediate System” of Forest Management, FOREASIA, 28 June to 1 July, Norway.
- Foppes, J. and S. Phommasane. 2005. Experiences with market development of non-timber forest products in Lao PDR. Paper presented at the international workshop on market development for improving upland poor’s livelihood security, 30 August to 2 September, Kunming China.
- Ian, L.Th., 2 015. Driver of Deforestation in the Greater Mekong Subregion Laos Country Report. https://www.uncclearn.org/wp-content/uploads/library/fao13102015_4.pdf.
- ICEM (International Center for Environmental Management). 2003. Lao PDR national report on protected areas and development. Review of protected areas and development in the Lower Mekong River Region. Indooroopilly, Queensland, Australia.
- Nanthavong, K. 2005. Access to energy: assessment of policies, capacities and knowledge repositories at the national level. UNDP Lao PDR, Regional Energy Program for Poverty Reduction (REP-PoR), Vientiane.
- National Statistics Center. 2005. Population census 2005. National Statistics Center of the Lao PDR.
- Sylavong, L. 2007. Environmental impacts of trade liberalization in Laos for biofuels. Alumni Newsletter Fall 2007. Beahrs Environmental Leadership Program, University of California.
- Theuambounmy, H. 2007. Status of renewable energy development in the Lao People’s Democratic Republic. Paper presented at Greening the Business and Making Environment a Business Opportunity, 5 to 7 June, Bangkok Thailand.
- World Bank et al. 2001. Lao PDR production forestry policy: status and issues for dialogue. Vol. 1. Main report; Vol. Annexes. World, Washington D.C.

9.2 Suggested reading list

- Joost Foppes and Sounthone Ketphanh, 2005. The Importance of Non-Timber Forest Products in the Lao Uplands
- Joost Foppes and Phongxiong Wanneng, 2007. NonTimber Forest Products (NTFPs) and Governance subsector in Xiengkhouang Propince
- Souvan Korpinit, 1995. Some medicinal plants in Laos.
- Khampha Chanthavong, 2011. A few things about NTFPs.

10 Assessment of students



10.1 Description of assessment

- Attendance 10 %
- Reporting 35 %
- Midterm examination 20 %
- Final examination 35 %

10.2 Grade distribution and student assessment

Grading scale

Score level	Meaning		Total score	Scale
Symbol	(Lao)	(English)		
A	ດີເລີດ	(Excellent)	80-100	4,00
B+	ດີຫຼາຍ	(Very Good)	75-79	3,50
B	ດີ	(Good)	70-74	3,00
C+	ດີພໍໃຊ້	(Fairly Good)	65-69	2,50
C	ພໍໃຊ້	(Fair)	60-64	2,00
D+	ອ່ອນ	(Poor)	55-59	1,50
D	ອ່ອນຫຼາຍ	(Very Poor)	50-54	1,00
F	ຕົກ	(Fail)	0-49	0,00
I	ບໍ່ສົມບູນ (ຮຽນບໍ່ຄົບ)	(Incomplete)		

Place, Date/...../.....

Head of Department.....

Course Instructor



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Dean of Faculty.....