

Souphanouvong University

No _____/.....

Place, Date ____/____/____

Course Syllabus

1 Program

Title of the study programme: **M.Sc. on Agriculture and Environmental Forestry**

2 Course details

Course name: **Forest Restoration**

Course code: 1104

Number of credits (hours/week): 2 (2-1-1); 4 hours per week but two classes per week, total 64 hours. 32 hours Lecture and Practice 32 hours.

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

Prerequisites courses: Ecology

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

3.1 Department:

Names and affiliations of lecturer(s): **Lecturer:** Bounxian Phetlumphun. **Affiliation:** Department of Forest Resource, Faculty of Agriculture and Forest Resource. Souphanouvong University.

4 Course description

In the past, Lao PDR was rich in forests and biodiversity. Currently, forests and their associated biodiversity are declining due to various human impacts. Consequently, it is necessary to conserve and restore forest ecosystems as habitat for the biodiversity they support. However, knowledge and expertise, to achieve this, in Lao PDR are lacking. *Therefore, this course is aimed at then describe the course (overview of contents and teaching methods etc.) ... to provide students with skill and knowledge needed to perform sustainable and forest restoration and management.*

Course objectives

- To introduce students to the causes and consequences of tropical deforestation and the need and value of forest restoration in Lao PDR and globally.??
- Learn fundamental ecological concepts related to forest regeneration and restoration and the techniques of both active and passive restoration, as well as international restoration guidelines. Deve
- Provide students with practical skills needed to implement forest ecosystem restoration.

Knowledge: Students will be aware of the deteriorating state of Lao forests and the Lao National Forest Rehabilitation Policy. Gain an understanding of the basics of forest restoration

Skills:

- To be able to perform forest restoration tasks (planting stock production, site assessments, tree planting maintenance and monitoring etc.) and perform reporting.
- Measure and analyse key field indicators to monitor restoration progress

Application of theories to practice:

To be able to compile and implement a scientifically-based forest ecosystem restoration plan, whilst also taking socio-politico-economic factors

Graduates will be able to apply key concepts and methods of restoration in the context encountered in the country and be able to plan for future forest restoration strategies.

4.1 Learning objectives of particular modules

If the course is divided into sections or modules, please state the learning objectives for the specific sections/modules taught within the course

5 Course teaching methods

The teaching of this course will use a combination of lectures and practice. The lecture will focus on the relevant theoretical sections and then will be applied to each lesson.

6 Teaching plan

Specify the teaching plan for each week of the course, including the methods used to relay information to the students and the number of hours spent on the subjects

Week	Content	Method/activity	Hours
1-2	Chapter 1: Situation of the world forest and Laos forest 1. Situation of the world forest 2. Situation of the Laos forest Situation of forest restoration in Laos	- Lecture - Need to read: Link	6
3-4	Chapter 2: Policy of forest restoration in Laos 1. Knowledge and understanding of forest policy 2. Forest restoration strategy	- Lecture - Group work of Forest restoration strategy	6
5	Assignment 1	Group work assignment of Policy of forest restoration in Laos	4
6	Focus the problems, causes of forest degradation and guidelines for Restoration	Each group presents on its work and gets feedback	4
7-9	Chapter 3: Principles of restoration 1. Restoration without human intervention 2. Restoration by planting trees	- Lecture - Group Discussion in the class	8
10-11	Chapter 4: Restoration planning 1. Forest area assessment to plan for restoration 2. Restoration planning	4. Lecture Group work of Forest restoration strategy	6

	3. Forest management planning		
12	Middle exam		4
13-15	Chapter 5: Forest Restoration 1. Forest conservation and restoration 2. Ecology conservation and restoration 3. Restoration water sources 4. Wildlife Conservation and Rehabilitation	- Lecture - Group Discussion in the class - Need to read: Articles on forest restoration <u>Link</u>	8
16	Assignment 2	Group work assignment of Forest conservation and restoration: 1. Ecology conservation and restoration 2. Restoration water sources 3. Wildlife Conservation and Rehabilitation	4
17-18	Field visit to restoration site	- Group visit	6
19	Review the lesson	- Individual review	4
20	Final exam		4

7 Material needs

7.1 **Course equipment:** Weather meter, GDC flowatch surface water flow meter, Moisture Meter, Oxygen meter and Handheld Metal Detector

8 References

8.1 Compulsory reading list

1. *National assembly, 2019. Laos Forest law. Online at [link](#)*
2. *Laos government, 2019. Decree on the Promotion of Commercial Planting of Trees, Online at [link](#)*
3. *Ministry of Agriculture and Forestry and National Land Management Authority, 2010. Participatory Agriculture and Forest Land Use Planning at Village and Village Cluster Level, Online at [link](#)*

4. Forestry, M. o. A. a. (2021). *Report on the implementation of forest management in the five-year period 2016-2020 and the five-year plan for 2020-2025*. Vientiane. Lao People's Democratic Republic. Document Number)
5. Forestry, M. o. A. a. 2005. *Forest strategy of the Lao PDR to the year 2020*. Vientiane. Lao People's Democratic Republic.
6. The Forest Restoration Research Unit, 2008. *Research for Restoring Tropical Forest Ecosystems: A Practical Guide*. Chiang Mai University, Forest Restoration Research Unit, Thailand. 144 pp. (Lao language) <https://www.forru.org/lo/library/0000156>
7. Forest Restoration Research Unit, 2005. *How to Plant a Forest: The Principles and Practice of Restoring Tropical Forests*. Compiled by Elliott, S., D. Blakesley, J.F. Maxwell, S., Doust & S. Suwannaratana. Biology Department, Science Faculty, Chiang Mai University, Thailand, 200 pp. Lao language <https://www.forru.org/lo/library/0000153>

8.2 Suggested reading list

1. Division, F. S. a. P. 2012. The results of the survey of forest cover all the country. Vientiane. Lao People's Democratic Republic.
2. Forest Resource Management Sub-Division, L. P. 2019. The Forest reserved area in Luang Prabang Province. Luang Prabang Province, Lao People's Democratic Republic.

10. Assessment of students

10.1 Description of assessment

Course assessment for students' grade, this will collect the score from several criteria, as class participation 10 percent, Activities with Q&A 10 percent, Report 20 percent, Midterm 20 and final term 40 percent.

10.2 Grade distribution and student assessment

Grading scale

Grade		Total score	Scale
Symbol	Verbal grade		
A	Excellent	90-100	4.00
B ⁺	Very Good	85-89	3.5
B	Good	80-84	3.00



C+	Fairly Good	75-79	2.50
C	Fair	70-74	2.00
D+	Poor	65-69	1.50
D	Very Poor	60-64	1.00
F	Fail	59	0.00

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