

Module/Course Description

Forest Valuation (MNH 425)

A. Module Identity		
1.	Name	Forest Valuation
2.	Code	MNH 425
3.	Credit	3 (2-1)
4.	Semester	7
5.	Pre-requisite	Forest Management
6.	Coordinator	Dr. Ir. Bahruni, MS
7.	Lecturers	1. Dr.Ir. Bahruni, MS 2. Dr. Ir. Yulius Hero, MScFTrop
8.	Language	Indonesian
9.	Program(s) in which the course is offered	Internal department: Forest Management Study Program Other departments: all study programs in IPB University as election course
10.	Type of teaching	a. Traditional classroom: 100 % b. Blended system: Traditional classroom....%, Online....% c. e-Learning system:% d. Others:%

B. Workload of course components (total contact hours and credits per semester)								
Credit		Contact Hours**				Self-Study	Other	Total
SKS *)	ECTS	Lecture	Class Exercise	Laboratory	Field Practice			
3		28	42			56		126

*) Semester credit unit according to the Indonesian higher educational system

1 credit unit lecture = 2 hours/ week for lecture and 2 hours/ week for self-study within 14 weeks/ semester

1 credit unit class exercise or laboratory or field practice = 3 hours/week within 12-14 weeks/semester

***) 1 hour for lecture= 50 minutes; 1 hour for class exercise or laboratory or field practice = 60 minutes

C. Module Objective (Learning Outcomes)
Students are expected to able to explore and explain the theory / concept of total economic value, the concept of sustainable forest management from economic and environmental aspects; explain the concepts / methods of assessing forest ecosystems, and be able to calculate the economic value of forest ecosystems for planning and analyzing the performance of forest management for forest production (goods and environmental services).

D. Detailed Course Learning Outcomes (LO) in Relation to Learning Domains, Teaching Strategies, and Assignment Methods			
No.	LO in Learning Domains	Teaching Strategies	Assessment Methods
a.	Knowledge		
1.	Students are able to explain the paradigm of forest management, the concept of total economic value, and the paradigm of forest management	Presentation and discussion (and practice)	Kelengkapan dan kebenaran penjelasan materi/ konsep 7.5%

2.	Students are able to explain the basic concepts of assessment method, and the usefulness of assessment in forest resources management	Presentation and discussion		Kelengkapan dan kebenaran penjelasan materi/ konsep 7.5%
3.	Students are able to explain the concept of tree values and use the calculation method.	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept, calculations 10%
4.	Students are able to explain the concept of stands management for producing forest products, and calculate the values of stands, and analyze policies on forest product fees/tax	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept, calculations, and forest policy on forest fee/tax 15%
5.	Students are able to explain the economics of forest land and calculate the economic value of land	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept, using calculations 10%
6.	Students are able to explain stand asset, analyze the sustainability, and calculate stand / forest assets.	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept, calculations, sustainability analysis 10%
7.	Students are able to elaborate the method of economic valuation of non-timber forest products and water products	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept 5%
8.	Students are able to describe the economic value of ecotourism and calculate its economy.	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept, using calculations 10%
9.	Students are able to elaborate forest environmental services, economic calculations of erosion control and carbon (REDD+) in forest management	Presentation and discussion (and practice)		Completeness and correctness of the explanation of material/concept, calculations and forest management analysis 20%
b. Skills				
1.	Students are able to calculate and make decisions regarding the value of stands, the economic value of land, the assets of stand / forest, the economics of non-timber forest products and water products, the economy of erosion control and carbon (REDD +) in sustainable forest management	Presentation and discussion (and practice)		Authentic assessment of the completeness and correctness in explanation, understanding, and analysis
c. Competences:				
1.	Students actively participate and cooperate in completing the analysis of a case study in forest valuation	Presentation and discussion (and practice)		Authentic assessment of the completeness and correctness in explanation, understanding, and analysis

2.	Students actively discuss to solve case studies for calculation in forest valuation	Presentation and discussion (and practice)	Authentic assessment of the completeness and correctness in explanation, understanding, and analysis
3.	Students are active in every activity in the Forest Valuation class and confident to express their opinions	Presentation and discussion (and practice)	Authentic assessment of the completeness and correctness in explanation, understanding, and analysis
4.	Students are able to complete all the tasks in a good and proper way	Presentation and discussion (and practice)	Authentic assessment of the completeness and correctness in explanation, understanding, and analysis

E. Module Content

List of Topic	Number of Weeks	Contact Hours
The Concept of Total Economic Value	2	4
Concept and Use of Assessment	2	4
Tree Assessment Theory	1	2
Stands Assessment Theory	2	4
Forest Land Economy	1	2
Stand Assets in Sustainable Management	1	2
Non-Tiber Forest Product	2	4
Ecotourism	1	2
Forest Environmental Services	2	4

F. Course Assessments

No.	Assessment Type *)	Schedule (Week Due)	Proportion of the Final Mark
1.	Mid-Term Examination	The 8 th Week	35%
2.	Final Examination	The 16 th Week	35%
3.	Practical Report	Minimal 4 times in a semester	20%
4.	Homework	Minimal 2 times in a semester	10%

**) Example: mid-term examination, final examination, quiz, homework, project, etc.*

G. Media Employed

Laptop, LCD, Microphone, White Board, Marker, Pointer