

Module/Course Description

Economics of Forest Management (MNH 327)

A. Module Identity		
1.	Name	Economics of Forest Management
2.	Code	MNH 327
3.	Credit	3 (3-0)
4.	Semester	6
5.	Pre-requisite	-
6.	Coordinator	Prof. Dr. Ir. Dudung Darusman, MA
7.	Lecturers	1. Prof. Dr. Ir. Dudung Darusman, MA 2. Prof. Dr. Ir. Hardjanto, MS 3. Dr. Ir. Bahruni, MS
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		42				84		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)	
By the end of this study, students are able to explain the concept of forestry economy that includes forest management, forest utilization and marketing of forest products; able to apply the basics of economics in solving the problems in the field of forestry	

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 basis for the use of economics based on the characteristics of the forest	<ul style="list-style-type: none"> • Explanation lecturers by giving examples of applications in Indonesia • Discussion 	Authentic Test (Midterm Exam) 5%
2.	Students are able to explain the use of forest assessment in	<ul style="list-style-type: none"> • Explanation lecturers by giving examples of applications in 	Authentic Test (Midterm Exam) 5%

	the context of optimal allocation of resources.	Indonesia • Discussion	
3.	Students are able to explain and understand the preferences of time in forest use	• Explanation lecturers by giving examples of applications in Indonesia • Discussion	Authentic Test (Midterm Exam) 5%
4.	Students are able to explain economic concepts in forest management	• Explanation lecturers by giving examples of applications in Indonesia • Discussion	Authentic Test (Midterm Exam) 5%
5.	Students are able to explain the economic production of wood and wood production evaluate the optimal settings.	• Cooperative learning • Explanation lecturers by giving problems	Authentic Test (Midterm Exam) 5%
6.	Students are able to calculate and analyze the economic principles in the management of forest areas.	• Cooperative learning • Explanation lecturers by giving problems	Authentic Test 5%
7.	Students are able to explain the concept of the market and marketing of forest products (department, forest products, environmental services), as well as the marketing of forest administration	• Explanation lecturers by giving examples of applications in Indonesia • Discussion	Authentic Test 5%
8.	Students are able to analyze the economic value of land, labor and capital Forestry	• Explanation lecturers by giving examples of applications in Indonesia • Discussion	Authentic Test 5%
b.	Skills		
1.	Students are able to answer and explore economic concepts in forest management	• Explanation lecturers by giving examples of applications in Indonesia • Discussion • Students are in groups to analyze investment in forestry	Authentic Assessment (group discussion, a brief presentation of forest silviculture systems Indonesia) 5%
2.	Students are able to explore the economic production of wood and wood production evaluate the optimal settings	• Explanation lecturers by giving examples of applications in Indonesia • Discussion • Students are in groups to analyze investment in forestry	Authentic assessment (groups discussion, short application Etat and AAC calculation) 5%
3.	Students are able to calculate and explore the economic principles in management of forest areas.	• Explanation lecturers by giving examples of applications in Indonesia • Discussion • Students are in groups to explore economic principles in the forest area management	Authentic assessment
4.	Students are able to explore and give examples regarding the concept of marketing and marketing of forest products (department, forest products,	• Explanation lecturers by giving examples of applications in Indonesia • Discussion • Students are in groups to	Authentic assessment

	environmental services), as well as the marketing of forest administration	explore the concept of the market and marketing of forest product and its forest administration	
5.	Students are able to demonstrate in estimation of the economic value of land, labor and capital Forestry	<ul style="list-style-type: none"> • Explanation lecturers by giving examples of applications in Indonesia • Discussion • Students are in groups to estimate the economic value of land, labor, and capital forestry 	Authentic assessment
6.	Students are able to demonstrate in calculation and infer the decision in the Forest Investment	<ul style="list-style-type: none"> • Explanation lecturers by giving examples of applications in Indonesia • Discussion • Students are in groups to analyze investment in forestry 	<ul style="list-style-type: none"> • Authentic Test (25%) • The task of analyzing investments in forestry (20%)
c.	Competences:		
1.	Students demonstrate a willingness to participate in the class activities	<ul style="list-style-type: none"> a. Lecturer's explanation b. Discussion 	Authentic assessment
2.	Students are able to complete all tasks and participate in class discussion	<ul style="list-style-type: none"> a. Lecturer's explanation b. Discussion c. Homework/ Assignment 	Authentic assessment

E. Module Content

List of Topic	Number of Weeks	Contact Hours
Economics and forest characteristics	2	4
The concept of the value of the forest	2	4
Time preference in forest use	1	2
The application of economic concepts in forest management	1	2
The economic production of wood and wood production evaluate the optimal settings.	1	2
Economic principles in the management of forest areas	2	4
The concept of the market and marketing of forest products (department, forest products, environmental services), as well as the marketing of forest administration	2	4
The economic value of land, labor and capital Forestry	1	2
Forestry investment analysis	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	Homework	Minimal 4 times in a semester	30%

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

G. Media Employed

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

H. Learning Resources

h1. Textbooks:

1. Darusman D. 1990. Pengantar Ekonomi Kehutanan [Diktat Kuliah]. Bogor (ID): Fakultas Kehutanan IPB. Not Published.
2. Gregory GR. 1972. Forest Resource Economics. New York (US): John Wiley and Sons, Inc.
3. Klemperer WD. 1996. Forest Resource Economics and Finance. New York (US): McGraw-Hill, Inc.
4. Nurrochmat DR, Hasan MF, Suharjito D, Budiaman A, Hadianto A, Ekayani M, Sudarmalik, Purwawangsa H, Mustaghfirin, Ryandi ED. 2012. Ekonomi Politik Kehutanan: Mengurai Mitos dan Fakta Pengelolaan Hutan (Political Economy of Forest. pp. 1-364. INDEF. ISBN: 978-979-97810-6-2.
5. Nurrochmat, D.R., Solihin, I., Ekayani, M., and A. Hadianto, 2010. Neraca Pembangunan Hijau. Konsep & Implikasi Bisnis Karbon & Tata Air di Sektor Kehutanan (Green National Income Accounting: Concepts and Implication of Businesses on Carbon and Watershed Area). Bogor (ID): IPB Press.
6. Nurrochmat DR. 2005. Strategi Pengelolaan Hutan. Yogyakarta (ID): Pustaka Pelajar.
7. Djamin Z. 1992. Pengantar Analisis Proyek.
8. PP No. 6 Tahun 2007 Jo PP No. 3 Tahun 2008 Tentang Tata Guna Hutan
9. Simon H. 1994. Pengaturan Hasil Hutan. Yogyakarta (ID): UGM.
10. PP No. 2 Tahun 2008 Tentang Jenis dan Tarif Penerimaan Negara Bukan Pajak Penggunaan Kawasan Hutan
11. Suhendang E. 2002. Pengantar Ilmu Kehutanan. Bogor (ID): Fahutan IPB.
12. UU RI No. 41 Tahun 1999 Tentang Kehutanan