

## Module/Course Description

### Agroforestry (SVK 427)

A. Module Identity		
1.	Name	Agroforestry
2.	Code	SVK 418
3.	Credit	3(2-3)
4.	Semester	Even/Odd
5.	Pre-requisite	-
6.	Coordinator	Dr. Ir. Nurheni Wijayanto, MS
7.	Lecturers	1. Dr. Ir. Nurheni Wijayanto, MS 2. Dr Ir Irdika Mansur, MForSc
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)
By the end of this study, students are expected to be able explain the system and technology of agroforestry and its characters, show the basic principles of agroforestry, and design agroforestry system considering productivity, sustainability, and adaptability aspect (ecology, economic-business, socio-culture aspect)

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
<b>a. Knowledge</b>			
1.	Students are able to explain the background, definitions, and concepts of agroforestry	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
2.	Students are able to explain the classification, distribution, and characters of agroforestry systems and practices	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper

3.	Students are able to explain and show the principles of species productivity and components interaction in agroforestry	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
4.	Students are able to explain and show the roles of agroforestry for soil protection and productivity	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
5.	Students are able to design and evaluate agroforestry system	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
<b>b. Skills</b>			
1.	Students are able to explain and explore the scope of practical training in agroforestry	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
2.	Students are able to explore components of agroforestry system	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
3.	Students are able to explore agroforestry systems in Indonesia	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
4.	Students are able to explore various species of agroforestry plants and its function	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
5.	Students are able to explore the factors that influence plant interaction in agroforestry system	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
6.	Students are able to explore the roles of agroforestry for soil productivity and protection	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
7.	Students are able to design and evaluate agroforestry system	<ul style="list-style-type: none"> <li>• Presentation of materials</li> <li>• Question and Answer (Q/A)</li> <li>• Practical Training/ discussion</li> </ul>	Test & Paper
<b>c. Competences:</b>			
1.	Students demonstrate a willingness to participate in the class activities	Practical Training/ discussion	Authentic assessment
2.	Students are able to complete all tasks and participate in class discussion	<ul style="list-style-type: none"> <li>• Practical Training/ discussion</li> <li>• Homework/ practical report</li> </ul>	Authentic assessment

<b>E. Module Content</b>		
<b>List of Topic</b>	<b>Number of Weeks</b>	<b>Contact Hours</b>
Introduction	1	2
Agroforestry Practices and Systems	4	8
Species Agroforestry	3	6
Soil Protection and Productivity	3	6
Design and Evaluation the Agroforestry Systems	3	6

<b>F. Course Assessments</b>			
<b>No.</b>	<b>Assessment Type *)</b>	<b>Schedule (Week Due)</b>	<b>Proportion of the Final Mark</b>
1.	Mid-term Examination	The 8 <sup>th</sup> week	35%
2.	Final Examination	The 16 <sup>th</sup> week	35%
3.	Practical Report	Minimal 6 times in a semester	20%
4.	Homework	Minimal 2 times in a semester	10%

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

<b>G. Media Employed</b>
Laptop, LCD, Microphone, White Board, Marker, Pointer

<b>H. Learning Resources</b>
<p><b>h1. Textbooks:</b>  Nair PKR. 1993. <i>An Introduction to Agroforestry</i>. Dordrecht (NL): Kluwer Academic Publisher in cooperation with ICRAF.  World Agroforestry Center [ICRAF]. 2003. <i>Bahan Ajaran Agroforestry I - IX</i>. Bogor (ID): ICRAF</p>