



Module name	Forest Protection in Tropical Rainforest
Modul level, if applicable	Master Program
Code, if applicable	190401802P020
Subtitle, if applicable	
Courses, if applicable	Regular
Semester(s) in which the module is taught	II
Person responsible for the module	Dr.rer.nat. Harmonis, S. Hut., M. Sc.
Lecturer	Dr.rer.nat. Harmonis, S. Hut., M. Sc Dr. Ir. Djumali Mardji, M. Agr Dr. Ir. H. Chandradewana Boer, Dipl. Biol.
Language	Indonesian, English
Relation to curriculum	Elective
Type of teaching, contact hours	Direct instruction, discussion, assignment
Workload	The expected workload will consist of around 79.4 hours in 16 weeks (14 meetings for learning activity, a meeting for mid-semester test, a meeting for final exam) throughout the semester which consists of: <ul style="list-style-type: none"> <li>• Face to face component (lectures) consists of 2 x 50 minutes per week.</li> <li>• Structured assignments for 2 x 60 minutes per week.</li> <li>• Self-directed study for 2 x 60 minutes per week.</li> </ul>
Credit points	2 SKS/3.2 ECTS Details: 1 Credits = 170mins/week/semester 1 Credits = 170 mins x 14 week = 2,380 mins = 39.7hours/semester 1 ECTS = 39.7h/25h = 1.6 Explanation: <ul style="list-style-type: none"> <li>• 1 semester = 16 weeks which includes 14 meetings for learning activity, one meeting for mid-semester test in between, and one meeting for final examination at the end of semester.</li> <li>• 1 semester consists of 2 quartiles, 1 quartile equals to 12.5 – 15 ECTS, therefore 1 ECTS = 25 – 30 hours. The 25 hours is set as the standard for 1 ECTS.</li> </ul>
Requirements according to the examination regulations	Have attended not less than 80% class meetings
Recommended prerequisites	-
Module objectives/intended learning outcomes	After attending the course, students have ability to: <ol style="list-style-type: none"> <li>1. Explain the Pest Population Dynamics</li> <li>2. Explain and identify the Forest Pest and Control systems</li> <li>3. Explain and Identify I. Introduction 1.1 Objectives of Studying Advanced Forest Protection Science 1.2 Definition and Understanding 1.2.1 Prevention and Eradication of Forest Diseases 1.2.2 Susceptibility and Resistance 1.2.3 Normal Sensitivity 1.2.4 Abnormal Sensitivity 1.2.5 Types of Resistance 1.2.5.1 Passive</li> </ol>



	Resistance 1.2. 5.2 Active Resistance, II. Forest Protection Problems in Tropical and Subtropical Areas, III. Forest Disease Prevention Methods, IV. Forest Disease Eradication Methods 4. Identify the integrated Forest Control, and the integrated Pest Management 5. Identify the Pest of East Kalimantan Forest																								
Content	This Courses discusses in detail about Protection of Humid Tropical Forests, start with identify the Pest population dynamics, and identify the control system for the Forest pest. As a results students are able to identify the integrated forest control and integrated pest management in East Kalimantan																								
Study and examination requirements and forms of examination	Evaluation and assessment of the learning process are following scheme 5 in the Academic Regulations of Mulawarman University: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 55%;">Objects of Assessment</th> <th style="width: 20%;">Forms of Assessment</th> <th style="width: 20%;">Quantity (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Affective and class attendance</td> <td>Participation</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Assignment</td> <td>Q&amp;A</td> <td style="text-align: center;">20</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Mid-semester test</td> <td>Written test</td> <td style="text-align: center;">30</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Final semester test</td> <td>Written test</td> <td style="text-align: center;">40</td> </tr> <tr> <td colspan="3" style="text-align: center;"><b>TOTAL</b></td> <td style="text-align: center;">100</td> </tr> </tbody> </table>	No.	Objects of Assessment	Forms of Assessment	Quantity (%)	1	Affective and class attendance	Participation	10	2	Assignment	Q&A	20	3	Mid-semester test	Written test	30	4	Final semester test	Written test	40	<b>TOTAL</b>			100
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Media employed	Laptop, LCD																								
Reading list																									