Module Descriptions

A **module** is a self-contained **learning unit** within a higher education program that includes thematically related courses and is assigned a **fixed number of credits**. It follows specific **learning objectives**, includes an **assessment component**, and contributes to achieving the qualifications of a degree program. In some countries, “modules” are also named “courses”.

Please provide a module description for each module. In addition to the compulsory and elective modules, this also includes credited internships and the final thesis.

Please summarize all module descriptions in one document (Module Handbook) and create a table of contents so that the modules can be found easily.

Module designation	Laboratory Work in Agroforestry
Semester(s) in which the module is taught	Even
Person responsible for the module	Dr. Ir. Suhartini, MS.
Language	Indonesian language
Relation to curriculum	Elective subject
Teaching methods	lecture, project, case study, seminar, examination
Workload (incl. contact hours, self-study hours)	Total workload is 45 hours semester which is used for pretest, practicum preparation, practice, report making, report presentation and response for 16 weeks
Credit points	1 SKS (1.6 ECTS)
Required and recommended prerequisites for joining the module	Ecology and plant physiology
Module objectives/intended learning outcomes	- PLO-1 - PLO-3 - PLO-4 - PLO-5 - PLO-9 - PLO-11
Content	Laboratory Work in Agroforestry Identifying agroforestry systems based on their characteristics, complexity and constituent components, tree interaction with the soil and its environment, potential economic benefits from agroforestry systems and ecological benefits of agroforestry systems.
Examination forms	Test, rubrics, and presentation

<table>
<tr>
<td>Study and examination requirements</td>
<td>Requirements for successfully passing the module
The final mark will be weight as follow:
<table>
<tr><th>NO</th><th>Assessment Techniques</th><th>Percentage Weight Assessment (%)</th><th>Information</th></tr>
<tr><td>1</td><td>Cognitive</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr>
<tr><td rowspan="5"></td><td>Presence</td><td>5</td><td></td></tr>
<tr><td>Task</td><td>5</td><td></td></tr>
<tr><td>Quiz</td><td>10</td><td></td></tr>
<tr><td>Mid-semester exams</td><td>15</td><td></td></tr>
<tr><td>Final Semester Exam</td><td>20</td><td></td></tr>
<tr><td>2</td><td>Participatory</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr>
<tr><td rowspan="3"></td><td>Case study</td><td>25</td><td></td></tr>
<tr><td>Team Base Project</td><td>25</td><td></td></tr>
<tr><td>Total</td><td>100</td><td></td></tr>
</table>
</td>
</tr>
<tr>
<td>Reading list</td>
<td>

A. Nair, P. K. R., & Garrity, D. P. (2022). An introduction to agroforestry: Four decades of scientific developments (2nd ed.). Springer.
B. Gold, M., Cernusca, M., & Hall, M. (Eds.). (2013). Handbook for agroforestry planning and design. Sustainable Agriculture Research and Education (SARE).
C. Martin, F & Sherman, S. (1992). Agroforestry principles. Revised and updated by Dr. Tim Motis, 2007. ECHO Technical Note.
D. da Fonseca, G.A.B., Harvey, C.A., Claude Gascon, C., Heraldo L. Vasconcelos, H.L., & Izac, A-M. N. (2004) Agroforestry and Biodiversity Conservation in Tropical Landscapes. London: Island Press
E. Kaonga, M.L. Ed. (2012). Agroforestry for Biodiversity and Ecosystem Services – Science and Practice: Croatia: In Tech.
F. Dagar, J. C., Gupta, S. R., & Sileshi, G. W. (Eds.). (2023). Agroforestry for sustainable intensification of agriculture in Asia and Africa. Springer Nature Singapore.
G. Huffaker, C.B. dan Messenger, P.S. (Ed.) (1989). Teori dan praktek pengendalian biologis. Jakarta: UI Press.

</td>
</tr>
</table>