**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 | Biotropics |
| 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 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks. |
| Credit points | 2 SKS (3.2 ECTS) |
| Required and recommended prerequisites for joining the module | Ecology |
| Module objectives/intended learning outcomes | - PLO-1<br>- PLO-3<br>- PLO-4<br>- PLO-5<br>- PLO-9<br>- PLO-11 |

<table>
<tr><td>Content</td><td>This course discusses the scope and basic concepts of tropical biology, the structure and function of tropical forests in terms of the flora, fauna and microbiota of tropical forests, the characteristics and characteristics of tropical forests, the dynamics of tropical forest ecosystems, the interaction of flora, fauna and microbiota. Analysis of vegetation, classification and classification systems of tropical forests, problems of tropical forests and their use, exploitation in tropical forests, management and preservation of tropical forests as life support.</td></tr>
<tr><td>Examination forms</td><td>Test, rubrics, and presentation</td></tr>
<tr><td>Study and examination requirements</td><td>Requirements for successfully passing the module<br>The final mark will be weight as follow:<br><br>
<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="4"></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></td><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>
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|---|---|
| Reading list | A. Desmukh, I. 1992. *Ekologi dan Biologi Tropika,* Jakarta: Yayasan Obor Indonesia<br>B. Qayim, I. 2005. *Ekologi Hutan Tropis. Ed. Kedua.* Jakarta: Universitas Terbuka<br>C. Vickery, M.L.1984. *Ecology of Tropical Plants.* New York: John Wiley & Sons.<br>D. Izzati, N.I. 2022. Evaluation of River Water Quality Based on Biotic Index of Benthic Macroinvertebrate as Bioindicator (Case study in Genjong River Wlingi Blitar East Java, Indonesia). Biotropika: Journal of Tropical Biology Vol 10 (2). |