<table>
<tr><td>Module designation</td><td>Laboratory Work in Plant Tissue Culture</td></tr>
<tr><td>Semester(s) in which the module is taught</td><td>Even/4th</td></tr>
<tr><td>Person responsible for the module</td><td>Lili Sugiyarto, M.Si., Paramita Cahyaningrum Kuswandi, M.Sc., Ph.D.</td></tr>
<tr><td>Language</td><td>Bahasa Indonesia</td></tr>
<tr><td>Relation to curriculum</td><td>Compulsory</td></tr>
<tr><td>Teaching methods</td><td>Lab works, project, seminar, exam</td></tr>
<tr><td>Workload (incl. contact hours, self-study hours)</td><td>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.</td></tr>
<tr><td>Credit points</td><td>2 SKS (3.2 ECTS)</td></tr>
<tr><td>Required and recommended prerequisites for joining the module</td><td>Laboratory Work in Plant Physiology</td></tr>
<tr><td>Module objectives/intended learning outcomes</td><td>PLO-1, PLO-2, PLO-4, PLO-5, PLO-6, PLO-7, PLO-8, PLO-9, PLO-10, PLO-11</td></tr>
<tr><td>Content</td><td>This course discusses the types and functions of each tool needed for tissue culture lab; room and tool sterilization; planning to make stock and media for plant tissue culture; the germination of seeds using in vitro culture; and embryo culture from orchid seeds.</td></tr>
<tr><td>Examination forms</td><td>Presence, quiz, final semester exam, team based project.</td></tr>
<tr><td>Study and examination requirements</td><td>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="3"></td><td>Presence</td><td>5</td><td></td></tr>
<tr><td>Quiz</td><td>10</td><td></td></tr>
<tr><td>Final Semester Exam</td><td>35</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="2"></td><td>Team Based Project</td><td>50</td><td></td></tr>
<tr><td>Total</td><td>100</td><td></td></tr>
</table></td></tr>
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Reading list	A. Trigiano, R.N., & Gray, D.J. 2011. Plant Tissue Culture, Development, and Biotechnology. CRC Press. B. Smith, R. H. 2006. Plant Tissue Culture Techniques and Experiments 3rd ed. Elsevier Inc. C. Kuswandi P.C., Ariyanti, N.A., Yunus, M.F. 2023. Anatomical, morphological and physiological leaf characters of black betel (Piper betle L. var. nigra) in varying natural and man-made habitats. Biodiversitas Journal of Biological Diversity. D. R. Dwiyani, Y Fitriani, IS Mercuriani - Journal of Sustainable Agriculture, 2022.