Module designation	Laboratory Work in Plant Anatomy
Semester(s) in which the module is taught	Odd/1st
Person responsible for the module	Budiwati, M.Si., Ratnawati, M.Sc.
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lab works, seminar, project, exam
Workload (incl. contact hours, self-study hours)	Total workload is 46 hours per semester which consists of 170 minutes of lab work per week for 16 weeks.
Credit points	1 SKS (1.6 ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	PLO-2 PLO-5 PLO-8
Content	This subject mostly recognises the structure and development of cells and some observed organelles, meristem, epidermis, parenchyme, strengthening, and vascular tissues of Spermatophytes. The understanding about these structures will be the basic knowledge to compare among the structure of organs, between the organ structures in Dicots/Gymnosperms and the ones in Monocots, between the anomalous structure of organs with the normal one.
Examination forms	Presence, task, quiz, final semester exam, team based project.

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<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>45</td><td>Maximum assessment weight accumulation 45%</td></tr>
<tr><td rowspan="4"></td><td>Presence</td><td>10</td><td></td></tr>
<tr><td>Task</td><td>10</td><td></td></tr>
<tr><td>Quiz</td><td>10</td><td></td></tr>
<tr><td>Final Semester Exam</td><td>15</td><td></td></tr>
<tr><td>2</td><td>Participatory</td><td>55</td><td>Maximum assessment weight accumulation 55%</td></tr>
<tr><td rowspan="2"></td><td>Team Based Project</td><td>55</td><td></td></tr>
<tr><td>Total</td><td>100</td><td></td></tr>
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<td>Reading list</td>
<td>A. Crang R., Lyons-Sobaski S., and Wise R. 2018. Plant Anatomy: A Concept-Based Approach To The Structure Of Seed Plants. Springer Nature. Switzerland.
B. Cutler, D., Botha, T. and Stevenson, D. Wm. 2009. Plant Anatomy. 1st edn. Wiley-Blackwell.
C. Bowes, B. G. 2000. A Color Atlas of Plant Structure, Iowa State University Press.
D. A. Evert R.F. 2006. Esau's Plant Anatomy 3rd Edition. Wiley-Interscience. A John Wiley & Sons, Inc., Publication.
E. Related articles.</td>
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