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	Waste Management Technology
Semester(s) in which the module is taught	Even
Person responsible for the module	Dr. Ir. Suhartini, MS. Prof. Dr. Tien Aminatun, M.Si.
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 - PLO-5 - PLO-11
Content	This course emphasizes personal development through discussions on the relationship between environmental pollution caused by waste and the sustainability of human life. It highlights the necessity of managing waste using strategies and technologies that are appropriate to the specific properties and characteristics of each type of waste. The knowledge and insights gained are expected to be applied in daily life as part of responsible environmental management for the preservation of a healthy and sustainable environment.
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>
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<td>Reading list</td>
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A. Miller, G. Tyler, and Scott Spoolman. 2014. Environmental Science. Boston, MA: Cengage Learning.
B. Anonim. 1987. Buku Petunjuk Pencegahan dan Penanggulangan Pencemaran Limbah Padat dan Cair Industri. Jakarta: Departemen Perindustrian.
C. Jørgensen, Sven Erik. 2016. Ecotoxicology and Chemistry Applications in Environmental Management. 1st ed. Kindle edition. Boca Raton, FL: CRC Press.
D. Crawford, R.L. and Crawford, D.L. 2005. Bioremediation: Principles and Applications. University of Idaho, Moscow, Idaho, USA, Cambridge University Press
E. Tjokrokusumo, 1995. Pengantar Enjiniring Lingkungan. Yogyakarta: Sekolah Tinggi Teknik Lingkungan “YLH”
F. Singh, S.N., and Tripathi, R.D. 2007. Environmental Bioremediation Technologies. Springer, Beriin

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