A Module Handbook or collection of module descriptions that is also available for students to consult should contain the following information about the individual modules:

Module designation	Systems Analysis and Environmental Modeling
Module level, if applicable	
Code, if applicable	DIL313
Subtitle, if applicable	
Courses, if applicable	
Semester(s) in which the module is taught	1 st Semester
Person responsible for the module	Prof. Dr. Ir. Purwanto, DEA
Lecturer	 Prof. Dr. Ir. Purwanto, DEA Prof. Dr. Sutrisno Anggoro, M.S.
Language	Indonesian and English
Relation to curriculum	
Type of teaching, contact hours	Lecture: 60 minutes Q&A: 10 minutes Discussion: 10 minutes Presentation: 10 minutes
Workload	 50 minutes of face-to-face lectures in class 1 hour of structured assignments (doing homework or assignments given by lecturers) 1 hour of independent work (reading books, papers, etc.)
Credit points	3 credits
Requirements according to the examination regulations	Minimum attendance of lectures 75%
Recommended prerequisites	E.g. existing competences in
Module objectives/intended learning outcomes	 Able to identify, formulate and analyze complex engineering problems on integrated systems based on analytical, computational or experimental approaches. Mastering the principles and techniques of integrated system design with an environmental systems approach.
	Able to research and investigate complex engineering problems on integrated systems using basic engineering principles and by carrying out research, analysis, data interpretation and information synthesis to provide solutions.
Content	This course studies systems and system modeling, especially systems in the environment. This course studies the process/steps of mathematical modeling for problems in environmental systems, the process of model verification and validation, to finding solutions or model analysis.
Study and examination requirements and forms of examination	 Open book and close book Multiple choice, case study, interview, practice
Media employed	Power point, youtube, website
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