

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.

Mandala designation				
Module designation	Applied Microbiology			
Semester(s) in which the module is taught	Even			
Person responsible for the module	Dr. Dra. Bernadetta Octavia 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	Microbiology			
Module objectives/intended learning outcomes	PLO 6, PLO 7, PLO 8			
Content	This course examines the principles of applied microbiology and explores the roles of microorganisms in environmental processes and daily life. It aims to equip students with the knowledge and skills necessary to advance the application of microbiology across diverse fields.			
Examination forms	Test, rubrics, and presentation			
Study and examination requirements	Requirements for successfully passing the module The final mark will be weight as follow:			
	NO Assessment Percentage Information Techniques Weight			



			Assessment		
			(%)		
	1	Cognitive	50	Maximum	
				assessment weight	
		Presence	10	accumulation 50%	
		Task	5		
		Quiz	10		
		Mid-semester exams	15		
		Final Semester Exam	15		
	2	Participatory	50	Maximum assessment weight accumulation 50%	
		Case study	25		
		Team Base	25		
		Project			
		Total	100		
Reading list	B. C. D. E.	industrial microorganisms. Synthetic and Systems Biotechnology 5: 81-91			