

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	Labwork of Industrial Microbiology			
Semester(s) in which the module is taught	Odd			
Person responsible for the module	Dr. Anna Rakhmawati, 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 320 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	Biochemistry, Microbiology, and Mycology			
Module objectives/intended learning outcomes	PLO 5, PLO 9, PLO 10			
Content	This course will discuss the isolation, selection and identification of industrial microorganisms and the factors affecting the productivity of those microbes and also the quality of the product.			
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			



T I	_	1	I	1	
			Assessment		
			(%)		
	1	Cognitive	50	Maximum	
				assessment weight	
				accumulation 50%	
		Presence	10		
		Task	10		
		Quiz	10		
		Mid-semester exams	0		
		Final Semester	20		
		Exam			
	2	Participatory	50	Maximum	
				assessment weight	
				accumulation 50%	
		Case study	25		
		Team Base	25		
		Project			
		Total	100		
	Δ	Claus, G.W.	1000 Underst	anding Microbes A	
Reading list	A.	•			
		and Company,USA			
	В.	Febrianti, N., Prijambada, I.D., Sembiring, L, and Widianto,			
		D. 2003. Karakterisasi dan Identifikasi Isolat Bakteri			
		Pendegradasi Fraksi Aspaltik Hidrokarbon Lumpur			
		Minyak Bumi, <i>Biologi</i> , 3 (2).			
	C.	Benson, H., J. 1998. <i>Microbiological Applications:</i>			
		Laboratory Manual in General Microbiology, 7th edition,			
		WCB McGraw-Hill, Boston USA.			
	D.	Madigan MT, Martinko JM, Stahl DA, Clark DP, 2021.			
		Biology of Microorganism. Boston: Pearson			
	E.	Adams MR, dan Moss MO, 2008. Food Microbiology			
	Cambridge: RSC Publishing.				
	F. Wilson, D.B., Sahm, H., Stahmann, K., Koffas, M., 2019			ann K Koffas M 2010	
	١.				
		Industrial Microbiology. Wiley-VCH			