

UNIVERSITAS NEGERI YOGYAKARTA BIOLOGY EDUCATION

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Bachelor of Education in Biology	MODULE HANDBOOK
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Module name:	Basic Mathematic								
Module level, if applicable:	Bache	Bachelor's Degree							
Code:	BIO6207								
Sub-heading, if applicable:	-								
Classes, if applicable:	-	-							
Semester:	Odd (Odd (I)							
Module coordinator:	Himn	Himmawati Puji Lestari, M.Si							
Lecturer(s):	Himn	Himmawati Puji Lestari, M.Si							
Language:	Indor	Indonesian							
Classification within the curriculum:	Common Ground of (Department Course)								
Teaching format/class hours	100 minutes of lectures, 120 minutes of structured activities, and								
per week during the semester:	120 minutes of individual study per week								
Workload:									
Credit points:	3 credits								
Prerequisites course(s):	-								
Program Loarning Outcomo(s)	PLO 4. Mastering basic Biology and other relevant knowledges with								
Program Learning Outcome(s)	mathematics and natural sciences.								
	After taking this course, the students have the ability to:								
	CO1. Explain the functions and its applications								
Targeted learning outcomes:	CO2. Explain the derivatives and its applications.								
raigeted learning outcomes.	CO3. Explain the partial derivatives and its applications.								
	CO4. Explain the logarithmic exponential functions and its								
	applications								
	This course contains functions and applications, derivatives and the								
	applications for approximations, calculating errors, determining								
Contont	minimum minimums, partial derivatives for completing models in								
Content:	biology with two or more independent variables. Logarithmic and								
	exponential functions to determine reaction speed, growth speed,								
	decay. It also determines growth models and decay.								
,	The final mark will be weight as follows:								
Study/exam achievements:	No	СО	Assessment	Assessment	Weight				

			Object	Technique			
	1	CO1 to CO4	Observed attitudes, knowledge, and skills	Survey, test, rubrics and manuals	100%		
			SKIIIS	Total	100%		
Forms of media:	Board, LCD Projector, Laptop/Computer and documents.						
References:	 Ayres Jr, Frank & Mendelson, Elliot. 2004. Kalkulus, Schaum's Series Jakarta: Erlangga Leithold. Louis. 2000. Kalkulus dan Ilmu Ukur Analitik. Jakarta: Erlangga Varberg, Dale & Purcell, Edwin J. 2004. Kalkulus. Jakarta: Erlangga 						

PLO AND CO MAPPING

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO	PLO	PLO
										10	11	12
CO 1				V								
CO 2				V								
CO 3				V								
CO 4												