



**UNIVERSITAS NEGERI YOGYAKARTA  
BIOLOGY EDUCATION**

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<b>Bachelor of Education in Biology</b>	<b>MODULE HANDBOOK</b>
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Module name:	Basic Mathematic													
Module level, if applicable:	Bachelor's Degree													
Code:	BIO6207													
Sub-heading, if applicable:	-													
Classes, if applicable:	-													
Semester:	Odd (I)													
Module coordinator:	Himmawati Puji Lestari, M.Si													
Lecturer(s):	Himmawati Puji Lestari, M.Si													
Language:	Indonesian													
Classification within the curriculum:	Common Ground of (Department Course)													
Teaching format/class hours per week during the semester:	100 minutes of lectures, 120 minutes of structured activities, and 120 minutes of individual study per week													
Workload:														
Credit points:	3 credits													
Prerequisites course(s):	-													
Program Learning Outcome(s)	PLO 4. Mastering basic Biology and other relevant knowledges with mathematics and natural sciences.													
Targeted learning outcomes:	After taking this course, the students have the ability to: CO1. Explain the functions and its applications CO2. Explain the derivatives and its applications. CO3. Explain the partial derivatives and its applications. CO4. Explain the logarithmic exponential functions and its applications													
Content:	This course contains functions and applications, derivatives and the applications for approximations, calculating errors, determining minimum minimums, partial derivatives for completing models in 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.													
Study/exam achievements:	The final mark will be weight as follows: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">No</th> <th style="width: 15%;">CO</th> <th style="width: 20%;">Assessment</th> <th style="width: 20%;">Assessment</th> <th style="width: 15%;">Weight</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				No	CO	Assessment	Assessment	Weight					
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