

FI120 Basic Mathematics

Module name:	Basic Mathematic	
Module level, if applicable:	Undergraduate	
Code:	FI120	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	1 st	
Module coordinator:	Andi Suhandi	
Lecturer(s):	Andi Suhandi and Mimin Iryanti	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of Teaching	Contact hours per week during the semester	Class Size
<ol style="list-style-type: none"> 1. Lecture (conceptual, contextual, and problem-solving approaches through expository, discussion and exercises). 2. Structured activities (assignments based on conceptual, contextual, and problem-solving approaches) 3. Self-study (reading literature) 	2 hours 30 minutes	35
Workload:	The total workload is 136 hours (4.8 ECTS / 8160 minutes) per semester, consisting of 1800 minutes (1.05 ECTS) lectures, 2160 minutes (1.27 ECTS) structured activities, 2160 minutes (1.27 ECTS) self-study per week for 12 weeks, 600 minutes (0.35 ECTS) for four exams, and 1440 minutes (0.86 ECTS) for four exam preparations.	
Credit points:	4.8 ECTS	
Pre-requisites course(s):	-	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1. Describe the definition of variable and graph of equation</p> <p>CLO2. Describe of the definition of Limits concept</p> <p>CLO3. Apply the limit in solving physics problems</p> <p>CLO4. Describe of the derivatives concept</p> <p>CLO5. Apply the derivatives in solving physics problem</p> <p>CLO6. Describe of the integral concept</p> <p>CLO7. Apply the integral in solving physics problem</p> <p>CLO8. Describe of the transcendence concept</p> <p>CLO9. Apply the transcendence in solving physics problem</p> <p>CLO10. Describe of the Probability concept</p>	

