

Module Handbook

Module Name:	Calculus I
Module Level:	Bachelor
Abbreviation, if applicable:	MAA102
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Odd (1 st semester)
Module coordinator(s):	MKWU Teaching Staff
Lecturer(s):	MKWU Teaching Staff
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / Elective Studies
Teaching format / class hours per week during semester:	450 minutes/ week
Workload:	150 min lecture + 150 min structural assignment + 150 min self-assignment x 13 weeks; total 5850 min = 97.5 hours 97.5/25 = 3.9 ECTS
Credit Points:	3
Requirements:	-
Learning goals/competencies:	<p>General Competence (Knowledge) Able to prove the concept of derivative and integral in biology correctly</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Able to resolve an equations and inequalities 2. Able to implement the system of linear equation 3. Able to draw the graph function 4. Able to understand the function given and determine the continuity of the mathematic function given 5. Able to determine derivative function 6. Able to implement the derivative function and solve the problem given
Content:	Equality and equality; systems of linear equations; function (mathematic); continuity function; implementation of derivative function
Attribute soft skill	Discipline and argumentation
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 40 of maximum mark of the exams (UTS and UAS), structured activity (group discussion).</p> <p>Final score (NA) is calculated as follow: 20% Paper project + 10% quiz + 30% mid exam + 30% final exam + 10% soft skill</p> <p>Final index is defined as follow:</p> <p>A : 75 – 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99</p>

	D : 40 - 54.99 E : 0 - 39.99
Forms of Media:	Slides and LCD projectors, whiteboards
Learning Methods	Class and discussion
Literature	<ul style="list-style-type: none"> a. Purcell, 2008. Kalkulus Jilid I, Edisi 8, Erlangga, Jakarta b. Stewart, J. 2001. Kalkulus Jilid 2, Erlangga; Jakarta c. Diktat Kalkulus I, Tim Pengajara Kalkulus, FST-UNAIR, Surabaya
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