

## Module Handbook

Module Name:	Calculus II
Module Level:	Bachelor
Abbreviation, if applicable:	MAA103
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Even (2 <sup>nd</sup> semester)
Module coordinator(s):	MKWU Teaching Staff
Lecturer(s):	MKWU Teaching Staff
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / <del>Elective Studies</del>
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><b>General Competence (Knowledge)</b> Able to prove the concept of derivative and integral in life science correctly</p> <p><b>Specific Competence:</b></p> <ol style="list-style-type: none"> <li>1. Able to do algebra operation, draw graphics, determine limit value, determine derivative function and calculate basic integral</li> <li>2. Able to calculate integral based on integral technic of substitution, partial, and rational fraction</li> <li>3. Able to implement the fundamental theory of calculus to calculate the definite integral and specific area</li> <li>4. Able to implement the definite integral to calculate an improper integral and volume of the object</li> <li>5. Able to determine sequence convergence</li> </ol>
Content:	Pra-calculus II; technic of integral; definite integral; the implementation of integral, geometrical numbers
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</p>

	B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99
Forms of Media:	Slides and LCD projectors, whiteboards
Learning Methods	Class and discussion
Literature	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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