

MODULE HANDBOOK

Course:	Calculus II
Module Level:	Bachelor
Code:	MAA103
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/Term:	2 nd / First Year
Module Coordinator:	Dr. Mohammad Imam Utoyo, M.Si.,
Lecturer(s):	Dr. Mohammad Imam Utoyo, M.Si., Dr. Windarto, M.Si., Dr. Miswanto, M.Si., Zahidah, S.Si., M.Si., Abdullah Jaelani, S.Si., M.Si., M. Yusuf Syaifuddin, S.Si., M.Si., Dra. Utami Dyah Purwati, M.Si., Dra. Suzyanna, M.Si.
Language:	Bahasa Indonesia
Classification within the Curriculum	Compulsory Course / Elective Studies
Teaching format / class hours per week during semester:	2 hours lectures (50 min / hour) 1 hour tutorial (100 min / hour)
Workload:	2 hours lectures, 1 hour tutorial, 2 hours structural activities, 3 hours individual study, 13 weeks per semester, and total 97,5 hours per semester 3.9 ECTS*
Credit Points:	3
Requirement(s):	Calculus I
Learning Goals/Competencies:	<p>General Competence (Knowledge): Understand the concept of integration and their use</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Evaluate integration as antiderivative 2. Choose the best technique of integration 3. Evaluate definite integrals using the Fundamental Theorem of Calculus 4. Determine the area between two curves 5. Evaluate an integrals with infinite intervals of integration and integrals with discontinuous integrands 6. Determine the volume of a solid of revolution 7. Determine the length of a curve 8. Determine the surface area of a solid of revolution
Contents:	Integration as anti derivatives, Techniques of Integration (Substitution, Integration by Parts, Partial Fractions, and Trigonometric Methods), Definite Integration (The Definite Integral the Fundamental Theorem of the Calculus and Summation and the Definition of Area), improper integrals, and apply of integrals (volume, arc length, and surface area)
Soft Skill Attribute:	Logic, ethics and effort
Study/Exam Achievements:	Students are considered to be competent and pass if at least get 40. Final score is calculated as follow: 10 % softskills, 10 % tutor assessment, 15 % assignment, 15 % quiz, 25 % midterm exam, 30% final exam

	<p>Final index is defined as follow:</p> <p>A : 75 – 100</p> <p>AB : 70 - 74.99</p> <p>B : 65 - 69.99</p> <p>BC : 60 - 64.99</p> <p>C : 55 - 59.99</p> <p>D : 40 - 54.99</p> <p>E : 0 - 39.99</p>
Forms of Media:	LCD projectors and whiteboards
Learning Methods	Lecture, tutorial, and assessments
Literature(s):	<ol style="list-style-type: none"> 1. Purcell, 2008, <i>Kalkulus I</i> Jilid I, Edisi 8, Erlangga, Jakarta 2. Stewart, J., 2001, <i>Kalkulus</i>, Jilid II, Erlangga, Jakarta
Notes:	<p>*Total ECTS = $\{(total\ hours\ workload \times 50\ min) / 60\ min\} / 25\ hours$</p> <p>Each ECTS is equals with 25 hours</p>