

Module Handbook

Module Name:	Differential Equation (Practical)
Module Level:	Bachelor
Abbreviation, if applicable:	MAA206
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	3 rd / Second Year
Module coordinator(s):	Dr. Imam Utoyo, M.Si
Lecturer(s):	Zailani, S.Si., 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 per hours)
Workload:	2 hours pretest preparation, 2 hours lectures, 2 hours group discussion, tutorial and writing report, 13 week per semester, and total 78 hours per semester ~ 2.6 ECTS *
Credit Points:	1 SCU
Requirements:	Calculus II
Learning goals/competencies:	<p>General Competence (Skills): Students are able to formulate a differential equation in the field of social kehayatan and appropriately.</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Determining the degree of Differential Equations 2. Determine the high rank Differential Equations 3. Determine Differential Equation Linear high level constant coefficients 4. Determine the Differential Equation with variable coefficients
Content:	Differential Equation level of degree one, Differential Equation level of a high rank, high levels of Differential Equation linear constant coefficient, Differential Equation with variable coefficients, high-level non-linear Differential Equation, Differential Equations simultaneously. Differential Equation Settlement with Laplace transforms.
Soft skill	Discipline and honesty
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 55 of maximum mark of the exams (UTS dan UAS), and structured activities (group discussion).</p> <p>20% assignment, 40% Practicum/Tutorials, 40% final examination</p> <p>Table Value Graduation A: $100 > NA \geq 75$ AB: $74,9 \geq NA \geq 70$</p>

	B: 69,9≥NA≥65 BC: 64,9≥NA≥60 C: 59,9≥NA≥55 D: 54,9≥NA≥40 E: 39,9≥NA
Learning Methods	Lecture, discussion, structured activities(individual)
Forms of Media:	Slides and LCD projectors, whiteboards
Literature:	<ol style="list-style-type: none"> 1. Boyce, William E. and DiPrima, Richard C., 1992. <i>Elementary Differential Equations and Boundary Value Problems</i>, 5th edition. John Wiley & Sons Inc., New York 2. Kells, Lyman M., 1965. <i>Elementary Differential Equations</i>, 6th edition. McGraw-Hill Kogakusha Ltd., Tokyo.
Notes:	*Total ECTS = {(total hours workload x 50 min) / 60 min } / 25 hours Each ECTS is equals with 25 hours