UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION
Jalan Colombo Nomor 1 Yogyakarta 55281
Telepon(0274)565411 Pesawat 217, (0274)565411(TU),fax (0274)548203
Laman :fmipa.uny.ac.id, E-mail :humas_fmipa@uny.ac.id

Bachelor of Science in Mathematics **MODULE HANDBOOK**

Module name:	Integral Calculus
Module level,if applicable:	Undergraduate
Code:	MAT6307
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	2nd
Module coordinator:	Dra. Endang Listyani, M.S
Lecturer(s):	1. Endang Listyani, MS.; 2. Atmini Dhoruri, MS.; 3. Ilham R, M.Sc
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours perweek during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Differential Calculus (MAT6302)
course outcomes:	After taking this course the students have ability to: CO1. Showing respect for the other's opinion CO2. Develop knowledge of Integral Calculus in a systematic, critical, creative, and innovative way

<table>
<tr><td></td><td>CO3. Communicate ideas in solving problems related to Integral in writing or verbally
CO4. understand the Integral concept for the basis of self-development in work and further study
CO5. Exploring, generalizing and provingtheorems related to Integral using logical reasoning</td></tr>
<tr><td>Content:</td><td>The course contains discussion on Indefinite integral, definite integral, fundamental theorem of integral, applications of the integral, transcendent function, integration techniques, indeterminate forms, and improper integrals..</td></tr>
<tr><td>Study/exam achievements:</td><td>CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitudeif they show it significantlycompared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of therequirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO 2</td><td>presentation</td><td>Observation</td><td>10%</td></tr>
<tr><td></td><td>CO 3,CO 4, CO 5,</td><td>a. Individual assessment
b. Group assessment
c. Quiz
d. Mid exam
e..Final exam</td><td>Written test</td><td>10%

10%
20%
25%
25%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table></td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>1. Varberg Dale dan Purcell E.J. (2001). Kalkulus Jilid 1 (Edisi VII), Batam: Interaksa Morrill, W.K. 1969. Analytic Geometry. Scranton, Pennsylvania : International textbook Company
2. Stroud, usK.A. Engineering mathematics; with addition by</td></tr>
</table>

	Dexter J. Booth. -5th ed. 3. Leithold (2002) Kalkulus jilid 1, Jakarta: Erlangga

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2			✓							
CO3				✓						
CO4					✓					
CO5						✓				