



UIN SUNAN KALIJAGA YOGYAKARTA

FACULTY OF SCIENCE AND TECHNOLOGY

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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Elementary Mathematics										
Module level, if applicable	Bachelor										
Code, if applicable	FIS415005										
Subtitle, if applicable	-										
Courses, if applicable	Elementary Mathematics										
Semester(s) in which the module is taught	1 st (first)										
Person responsible for the module	Andi, M.Sc.										
Lecturer(s)	Andi, M.Sc										
Language	Indonesia										
Relation to curriculum	Compulsory course in the first year (1 st semester) Bachelor Degree										
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.										
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam										
Credit points	3										
Requirements according to the examination regulation	Minimum attendance 75% All assignments submitted Attendance on time										
Recommended prerequisites	No prerequisites stated on										
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Able to understand real number systems, inequalities, functions, limits and continuity. CO 2. Able to differentiate explicit functions, apply chain rules and derivatives of implicit functions. CO 3. Able to solve integrals using the fundamental theorem of calculus and the basic formula for integration.										
Content	1. Functions 2. Limits 3. The Derivative 4. Applications of the Derivative 5. The Definite Integral 6. Applications of the Integral										
Study and examination requirements and forms of examination	The final mark will be weighted as follows: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>NO</th> <th>Assessment methods (components, activities)</th> <th>Weight (percentage)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Final Examination</td> <td>40%</td> </tr> <tr> <td>2</td> <td>Mid-Term Examination</td> <td>30%</td> </tr> </tbody> </table>		NO	Assessment methods (components, activities)	Weight (percentage)	1	Final Examination	40%	2	Mid-Term Examination	30%
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1	Final Examination	40%									
2	Mid-Term Examination	30%									

	3	Class Activities : Quiz, Homework, etc.	30%																																										
<p>The final assessment is expressed in the form of a letter value converted from a number value with the following categories:</p>																																													
<table border="1"> <thead> <tr> <th>NO</th> <th>Number Value</th> <th>Letter Value</th> <th>NO</th> <th>Number Value</th> <th>Letter Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>≥ 95</td> <td>A</td> <td>7</td> <td>65-69.99</td> <td>B/C</td> </tr> <tr> <td>2</td> <td>90-94.99</td> <td>A-</td> <td>8</td> <td>60-64.99</td> <td>C+</td> </tr> <tr> <td>3</td> <td>85-89.99</td> <td>A/B</td> <td>9</td> <td>55-59.99</td> <td>C</td> </tr> <tr> <td>4</td> <td>80-84.99</td> <td>B+</td> <td>10</td> <td>50-54.99</td> <td>C-</td> </tr> <tr> <td>5</td> <td>75-79.99</td> <td>B</td> <td>11</td> <td>55-34.99</td> <td>D</td> </tr> <tr> <td>6</td> <td>70-74.99</td> <td>B-</td> <td>12</td> <td><35</td> <td>E</td> </tr> </tbody> </table>				NO	Number Value	Letter Value	NO	Number Value	Letter Value	1	≥ 95	A	7	65-69.99	B/C	2	90-94.99	A-	8	60-64.99	C+	3	85-89.99	A/B	9	55-59.99	C	4	80-84.99	B+	10	50-54.99	C-	5	75-79.99	B	11	55-34.99	D	6	70-74.99	B-	12	<35	E
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Media employed	White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)																																												
Reading list	<ol style="list-style-type: none"> 1. Purcell, J, E, Rigdon, S., E., Calculus, 9-th edition, Prentice-Hall, New Jersey, 2006 2. Anton, H. et al., Calculus, 10-th edition, John Wiley & Sons, New York, 2012 																																												

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1			√	√					
CO 2			√	√					
CO 3			√	√					