

## MODULE HANDBOOK

Module Name	Basic Mathematics										
Module Level	Bachelor										
Abbreviation, if applicable	3074213015										
Sub-heading, if applicable	-										
Course included in the module, if applicable	-										
Semester/term	1 <sup>st</sup> /First Year										
Modul coordinator(s)	Yuliani Puji Astuti, M.Si										
Lecturer(s)	Team										
Language	Bahasa Indonesia										
Classification within the curriculum	Compulsory										
Teaching format/class hours per week during the semester	3 hours lectures (50 min / hour)										
Workload	3 x 50 minutes lectures, 3 x 60 minutes structured activity, 3 x 60 minutes individual activity, 14 weeks per semester, 119 total hours per semester ~ 4.77 ECTS**										
Credit point	3 CU = 3 x 1.59 = 4.77 ECTS										
Prerequisite course(s)	-										
Targeted learning outcomes:	<p>Knowledge: 1. Understand real functions, limit functions, their derivatives and applications, integrals and their applications, matrices and solutions for systems of linear equations.</p> <p>Attitude and Social: 2. Demonstrate good scientific manners and critical thinking</p>										
Content:	Assessment of functions, limit functions, continuity of functions, derivatives of functions and their applications, integrals and their applications, as well as matrices for solving systems of linear equations.										
Study / exam achievements:	<p>Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Assessment Components</th> <th>Percentage of contribution</th> </tr> </thead> <tbody> <tr> <td>Participation</td> <td>20%</td> </tr> <tr> <td>Assignment</td> <td>30%</td> </tr> <tr> <td>Mid-semester test</td> <td>20%</td> </tr> <tr> <td>Final semester test</td> <td>30%</td> </tr> </tbody> </table>	Assessment Components	Percentage of contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%
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Media:	Handbook and PPT
Learning Methods	Individuals assignment, group assignment, discussion, and presentation
Literature:	<ol style="list-style-type: none"> <li>1. Purcel, EJ and D. Verberg. 1996. Kalkulus dan Geometri Analitik I. Indonesian translation.</li> <li>2. Susila B. Kartasasmita dan Rawuh. Jakarta: Erlangga,</li> <li>3. Finney, R.L., Weir, M.D., Giordano F.R., 2001. Thomas' Calculus 10th Edition. USA: Addison-Wesley Publishing Company</li> </ol>
Notes:	<p>*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p> <p>**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/HK/Ak/2019</p>