

## MODULE HANDBOOK

Module Name	General Physics											
Module Level	Bachelor											
Abbreviation, if applicable	3074213013											
Sub-heading, if applicable	-											
Course included in the module, if applicable	-											
Semester/term	1 <sup>st</sup> / First year											
Modul coordinator(s)	Dr. Z.A. Imam Supardi, M.Si.											
Lecturer(s)	Team											
Language	Bahasa Indonesia											
Classification within the curriculum	Compulsory course											
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>CLO-1: Solve physics basic concepts such as vectors, particle kinematics, particle dynamics, fluids, thermophysics, optics, static and dynamics electricity.</p> <p>CLO-2: Implement mathematics to solve physics problems</p>											
Content:	The concepts and principles / laws of measurement, kinematics, dynamics, temperature, heat, and heat transfer											
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="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Assessment Components</th> <th style="text-align: left;">Percentage of contribution</th> </tr> </thead> <tbody> <tr> <td>Participation</td> <td style="text-align: center;">20%</td> </tr> <tr> <td>Assignment</td> <td style="text-align: center;">30%</td> </tr> <tr> <td>Mid-semester test</td> <td style="text-align: center;">20%</td> </tr> <tr> <td>Final semester test</td> <td style="text-align: center;">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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Participation	20%											
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Mid-semester test	20%											
Final semester test	30%											
Media:	Handbook and PPT											
Learning Methods	Individuals assignment, group assignment, discussion, and presentation											
Literature:	1. Giancoli, Douglas. 2016. Physics: Principles with											

	<p>Applications II Global Edition. California: AddisonWesley.</p> <p>2. Halliday &amp; Resnick. 2013. Fundamental of Physics, 10thEdition. John Wiley &amp; Sons Inc. Young, Hugh D., Freedman, Roger A., Ford</p> <p>3. Albert Lewis. 2016. Sears and Zemansky's University Physics:With Modern Physics. Pearson.</p>
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>