MODULE HANDBOOK

<table>
<tr><td>Module Name</td><td>General Physics</td></tr>
<tr><td>Module Level</td><td>Bachelor</td></tr>
<tr><td>Abbreviation, if applicable</td><td>3074213013</td></tr>
<tr><td>Sub-heading, if applicable</td><td>-</td></tr>
<tr><td>Course included in the module, if applicable</td><td>-</td></tr>
<tr><td>Semester/term</td><td>1st / First year</td></tr>
<tr><td>Modul coordinator(s)</td><td>Dr. Z.A. Imam Supardi, M.Si.</td></tr>
<tr><td>Lecturer(s)</td><td>Team</td></tr>
<tr><td>Language</td><td>Bahasa Indonesia</td></tr>
<tr><td>Classification within the curriculum</td><td>Compulsory course</td></tr>
<tr><td>Teaching format/class hours per week during the semester</td><td>3 contact hours of lectures and lab activity (Indonesia credit semester or sks*)</td></tr>
<tr><td>Workload</td><td>a. Lecture:
2 x 50 minutes lectures,
2 x 60 minutes structured activity,
2 x 60 minutes individual activity, 14 weeks per semester,
79.33 total hours per semester ~ 3.18 ECTS
b. Lab activity:
1x170 minutes lab activity, 14 weeks per semester
39.67 total hours of lab activity per semester ~ 1.59 ECTS
Total of lecture and lab activity=
119 total hours per semester ~ 4.77 ECTS**</td></tr>
<tr><td>Credit point</td><td>3 CU = 3 x 1.59 = 4.77 ECTS</td></tr>
<tr><td>Prerequisite course(s)</td><td>-</td></tr>
<tr><td>Targeted learning outcomes:</td><td>CLO-1: Solve physics basic concepts such as vectors, particle kinematics, particle dynamics, fluids, thermophysics, optics, static and dynamics electricity.
CLO-2: Implement mathematics to solve physics problems</td></tr>
<tr><td>Content:</td><td>The concepts and principles / laws of measurement, kinematics, dynamics, temperature, heat, and heat transfer</td></tr>
<tr><td>Attribute Soft Skill</td><td>Active communication; Disipline; Collaboration; Responsibility; and Argumentation in class and outdoor setting</td></tr>
<tr><td>Study / exam achievements:</td><td>The final grade (NA) is calculated based on the following ratio:
<table><tr><td>Assessment Components</td><td>Percentage of contribution</td></tr></table></td></tr>
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	<table><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></table> Grade Conversion of 0-100 scale into 0-4 scale is set as below: <table><tr><td>Letter</td><td>Number</td><td>Grade interval</td></tr><tr><td>A</td><td>4.00</td><td>85 ≤ A ≤ 100</td></tr><tr><td>A-</td><td>3.75</td><td>80 ≤ A- <85</td></tr><tr><td>B+</td><td>3.50</td><td>75 ≤ B+ < 80</td></tr><tr><td>B</td><td>3.00</td><td>70 ≤ B < 75</td></tr><tr><td>B-</td><td>2.75</td><td>65 ≤ B- < 70</td></tr><tr><td>C+</td><td>2.50</td><td>60 ≤ C+ < 65</td></tr><tr><td>C</td><td>2.00</td><td>55 ≤ C < 60</td></tr><tr><td>D</td><td>1.00</td><td>40 ≤ D < 55</td></tr><tr><td>E</td><td>0.00</td><td>0 ≤ E < 40</td></tr></table>
Media:	Handbook and PPT
Learning Methods	Lecture and laboratory activity using: Student-centered approach; project-based learning; lab activity, and discussion; and presentations (structured activities)
Literature:	1. Giancoli, Douglas. 2016. Physics: Principles with Applications II Global Edition. California: Addison Wesley. 2. Lewis, Albert. 2016. Sears and Zemansky's University Physics: With Modern Physics. Pearson. 3. Walker, Jearl. 2014. Principles of Physics, 10th ed. Singapore: John Wiley & Sons

	4. Halliday & Resnick. 2013. Fundamental of Physics, 10th Edition. John Wiley & Sons Inc. Young, Hugh D., Freedman, Roger A., Ford 5. Serway, R.A., and Jewett, J.W., 2010, Physics for Scientists and Engineers with Modern Physics, Salemba Teknika 6. Bueche, F.J. 2000. Schaum's Outline of College Physics, McGraw-Hill.
Notes:	*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.
	**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019