



## MODULE HANDBOOK

<b>Module Name:</b>	General Physics
<b>Module Level:</b>	Sarjana (S-1) / Bachelor
<b>Abbreviation, if applicable:</b>	8420203061
<b>Sub-heading, if applicable:</b>	-
<b>Course included in the module, if applicable:</b>	-
<b>Semester/term:</b>	1/ First year
<b>Module Coordinator(s):</b>	Dr. Utiya Azizah, M.Pd
<b>Lecturer(s):</b>	Team
<b>Language:</b>	Indonesia
<b>Classification within the curriculum:</b>	Compulsory course/ <del>elective studies</del>
<b>Teaching format/class hours per week during the semester</b>	Teaching format: lectures, tutorial assignment, and individual study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures
<b>Workload:</b>	14 weeks per semester consisting of: <ul style="list-style-type: none"><li>➤ 2.5 hours lectures (3 x 50 minutes) per week,</li><li>➤ 3 hours tutorial assignments (3 x 60 minutes) per week,</li><li>➤ 3 hours individual study (3 x 60 minutes) per week,</li></ul> Total workload : $14 \times 3 \times 170$ minutes = 7,140 minutes = 4.76 ECTS*
<b>Credit Point:</b>	3
<b>Requirements:</b>	-



<b>Learning Goals:</b>	<b>Social and Attitude</b>  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.
------------------------	---

<b>Content:</b>	The concepts and principles / laws of measurement, kinematics, dynamics, temperature, heat, and heat transfer.
-----------------	--

<b>Study/exam achievements</b>	<ul style="list-style-type: none"> <li>➤ Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 55 or C.</li> <li>➤ Final score is calculated as follows:</li> <li>➤ 20% midterm exam + 30% assignments + 20% participation + 30% final exam</li> <li>➤ Final index is defined as follow:</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Index</th> <th>Converted Score</th> <th>Score Range</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4.00</td> <td><math>85 \leq A \leq 100</math></td> </tr> <tr> <td>A-</td> <td>3.75</td> <td><math>80 \leq A- &lt; 85</math></td> </tr> <tr> <td>B+</td> <td>3.50</td> <td><math>75 \leq B+ &lt; 80</math></td> </tr> <tr> <td>B</td> <td>3.00</td> <td><math>70 \leq B &lt; 75</math></td> </tr> <tr> <td>B-</td> <td>2.75</td> <td><math>65 \leq B- &lt; 70</math></td> </tr> <tr> <td>C+</td> <td>2.50</td> <td><math>60 \leq C+ &lt; 65</math></td> </tr> <tr> <td>C</td> <td>2.00</td> <td><math>55 \leq C &lt; 60</math></td> </tr> <tr> <td>D</td> <td>1.00</td> <td><math>40 \leq D &lt; 55</math></td> </tr> <tr> <td>E</td> <td>0.00</td> <td><math>0 \leq E &lt; 40</math></td> </tr> </tbody> </table>	Index	Converted Score	Score Range	A	4.00	$85 \leq A \leq 100$	A-	3.75	$80 \leq A- < 85$	B+	3.50	$75 \leq B+ < 80$	B	3.00	$70 \leq B < 75$	B-	2.75	$65 \leq B- < 70$	C+	2.50	$60 \leq C+ < 65$	C	2.00	$55 \leq C < 60$	D	1.00	$40 \leq D < 55$	E	0.00	$0 \leq E < 40$
Index	Converted Score	Score Range																													
A	4.00	$85 \leq A \leq 100$																													
A-	3.75	$80 \leq A- < 85$																													
B+	3.50	$75 \leq B+ < 80$																													
B	3.00	$70 \leq B < 75$																													
B-	2.75	$65 \leq B- < 70$																													
C+	2.50	$60 \leq C+ < 65$																													
C	2.00	$55 \leq C < 60$																													
D	1.00	$40 \leq D < 55$																													
E	0.00	$0 \leq E < 40$																													

<b>Forms of Media</b>	Slides and LCD projectors, whiteboard
-----------------------	---------------------------------------



<b>Literature</b>	<ol style="list-style-type: none"><li>1. Giancoli, Douglas. 2016. <i>Physics: Principles with Applications II Global Edition</i>. California: AddisonWesley.</li><li>2. Halliday &amp; Resnick. 2013. <i>Fundamental of Physics, 10<sup>th</sup> Edition</i>. John Wiley &amp; Sons Inc. Young, Hugh D., Freedman, Roger A., Ford</li><li>3. Albert Lewis. 2016. <i>Sears and Zemansky's University Physics: With Modern Physics</i>. Pearson.</li></ol>
<b>Note</b>	*Total hours per 1 credit in 1 semester= $\{(1 \text{ credit} \times 170 \text{ minutes} \times 14 \text{ weeks})/60 \text{ minutes}\}=39.67 \text{ hours}$ .
	Each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1.59 ECTS.