Module Descriptions

Module designation	General Physics *Fisika Umum*
Module level	Bachelor degree/Undergraduate Programme of Biology
Course Code	8420503100
Semester/Term	1st Semester
Person responsible for the module	Dra. Titin Sunarti, M.Si. Woro Setyarsih, S.Pd., M.Si. Suliyanah, S.Pd M.Si
Language	Bahasa Indonesia (Indonesian Language)
Relation to curriculum	Compulsory/ ~~Elective~~
Teaching method	Lecture
Workload	3 x 50 minutes lectures, 3 x 60 minutes structured activity, 3 x 60 minutes individual activity, 14 weeks per semester, 118.99 total hours per semester ~ 4.77 ECTS**
Credit Point	3 credit unit (4.77 ECTS)
Required and recommended prerequisites for joining the module	
Module Objectives/intended learning outcomes	1. Utilizing science and technology to make representations of physical symptoms (mechanics and heat energy) in the form of graphs, data tables, mathematics, and information retrieval *(Knowledge)* 2. Analyze facts, concepts, principles, laws, theories and procedures in the field of mechanics and thermal energy for solving relevant problems. *(Knowledge)* 3. Able to make strategic decisions based on data and information in mechanics and heat energy. *(Special Competence)* 4. Responsible for self-learning, assignments, and agreements with colleagues. *(Attitude)*
Content	This course discusses the concepts and principles / laws of measurement, kinematics, dynamics, temperature, heat, and heat transfer. Lecture

<table>
<tr><td></td><td>activities are carried out in a student center with discussions, observations, and presentations</td></tr>
<tr><td>Examination forms</td><td>Written test</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>
Study Requirement

Attendance: students must attend at least 75% of the lectures to be eligible for the final examination.

Study examination

The final grade (NA) is calculated based on the following ratio:

<table>
<tr><td>Assessment Components</td><td>Percentage of contribution</td></tr>
<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>
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<tr><td>Reading List</td><td>

1. Giancoli, Douglas. 2016. Physics: Principles with Applications II Global Edition. California: AddisonWesley.
2. Halliday & Resnick. 2013. Fundamental of Physics, 10th
3. Albert Lewis. 2016. Sears and Zemansky's University Physics: With Modern Physics. Pearson

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