MODULE HANDBOOK

Module Name:	General Physics
Module Level:	Sarjana (S-1) / Bachelor
Abbreviation, if applicable:	4420103038
Sub-heading, if applicable:	-
Course included in the module, if applicable:	-
Semester/term:	1/ First year
Module Coordinator(s):	Drs. Dwikoranto, M.Pd.
Lecturer(s):	Drs. Dwikoranto, M.Pd. Lydia Rohmawati, S.Si., M.Si.
Language:	Indonesia
Classification within the curriculum:	Compulsory course/ ~~elective studies~~
Teaching format/class hours per week during the semester	Teaching format: lectures, tutorial assignment, and individual study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures
Workload:	15 weeks per semester consisting of: ➢ 2.5 hours lectures (3 x 50 minutes) per week, ➢ 3 hours tutorial assignments (3 x 60 minutes) per week, ➢ 3 hours individual study (3 x 60 minutes) per week, Total workload : 14x3x170 minutes = 7,140 minutes = 4.76 ECTS*
Credit Point:	3
Requirements:	N/A
Learning Goals :	**COM-2 : Generating ideas used for completing mathematical tasks and to communicate them either in writing or orally, in accordance with scientific principles.** • CLO-1: Explain experimental results, and the use of basic physics concepts in the discussion of solving related problems, both orally and in writing. **SOC-1 : Working collaboratively and having social sensitivity (obligations as citizens and towards religion) and being able to bring change to a techno-ecopreneurship community.**

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- CLO-2: Develop and apply scientific, logical, critical, and innovative thinking in presenting alternative solutions for solving problems related to the basic concepts of physics.

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<tr><td>Content:</td><td>This course discusses vectors, particle kinematics, particle dynamics, fluids, thermophysics, optics, static and dynamic electricity, and magnetism, through active learning with a combination of discussion methods, question and answer and the implementation of laboratory activities.</td></tr>
<tr><td>Study/exam achievements</td><td>

- 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.
- Final score is calculated as follows:
- 20% midterm exam + 30% assignments + 20% participation + 30% final exam
- Final index is defined as follow:

<table>
<tr><td>Index</td><td>Converted Score</td><td>Score Range</td></tr>
<tr><td>A</td><td>4.00</td><td>$85 \leq A \leq 100$</td></tr>
<tr><td>A-</td><td>3.75</td><td>$80 \leq A- < 85$</td></tr>
<tr><td>B+</td><td>3.50</td><td>$75 \leq B+ < 80$</td></tr>
<tr><td>B</td><td>3.00</td><td>$70 \leq B < 75$</td></tr>
<tr><td>B-</td><td>2.75</td><td>$65 \leq B- < 70$</td></tr>
<tr><td>C+</td><td>2.50</td><td>$60 \leq C+ < 65$</td></tr>
<tr><td>C</td><td>2.00</td><td>$55 \leq C < 60$</td></tr>
<tr><td>D</td><td>1.00</td><td>$40 \leq D < 55$</td></tr>
<tr><td>E</td><td>0.00</td><td>$0 \leq E < 40$</td></tr>
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<tr><td>Forms of Media</td><td>Slides and LCD projectors, whiteboard</td></tr>
<tr><td>Literature</td><td>[1] Bueche, F.J., 2000, Schaum 19s Outline of College Physics , McGraw-Hill.

[2] Sarojo, A.G., 2014, Seri Fisika Dasar Mekanika , edisi 5, Salemba Teknika.

[3] Serway, R.A., and Jewett, J.W., 2010, Physics for Scientists and Engineers with Modern Physics , Salemba Teknika.</td></tr>
<tr><td>Note</td><td>*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x 14 weeks)/60 minutes}=39,67 hours.</td></tr>
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	each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1,59 ECTS.