

## Module Handbook

Modul Name	Basic Physics I
Modul Level	Bachelor
Abbreviation, if applicable:	FID103
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Odd (1 <sup>st</sup> semester)
Module coordinator(s):	MKWU Teaching Staff
Lecturer(s):	MKWU Teaching Staff
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / <del>Elective Studies</del>
Teaching format / class hours per week during semester:	300 minutes/ week
Workload:	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirement	-
Learning goals/ competencies	<p><b>General competence :</b> Able to calculate various physical phenomena through simple concept of physics correctly</p> <p><b>Specific competence:</b></p> <ol style="list-style-type: none"> <li>1. Able to calculate vector</li> <li>2. Able to calculate kinematics particle</li> <li>3. Able to calculate the dynamics particle</li> <li>4. Able to calculate the thermodynamics</li> </ol>
Content	Measurement; vector; kinematics; particle dynamics; energy; elasticity; gravity; fluid; thermodynamics; wave mechanics;
Soft skill Attribute	Discipline and argumentation
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40 of maximum mark of the final score.</p> <p>Final score: Paper project (10%), quiz (15%), mid exam (35%), final exam (35%), and soft skill (5%)</p> <p>Final index is defined as follow:</p> <p>A = 75-100            AB = 70-74,99            B = 65-69,99            BC = 60-64,99            C = 55-59,99            D = 40-54,99            E = 0-39,99</p>
Media	LCD
Learning Method	Class and discussion

Literature	<ul style="list-style-type: none"> <li>a. Alonso and Finn, 1980, <i>Fundamental University Physics</i>, Vol.1,</li> <li>b. Idem no.1, Edisi terjemah dalam bahasa Indonesia, Penerbit: ERLANGGA</li> <li>c. Halliday dan Resnick, 1994, <i>Fisika</i>, Edisi ke-3, terjemah oleh Silaban &amp; E. Sucipto, Penerbit Erlangga</li> </ul>
Note	The requirement of general physics II