

## Module Handbook

Modul Name	Basic Physics II
Modul Level	Bachelor
Abbreviation, if applicable:	FID104
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Even (2 <sup>nd</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	General Physics I
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 the electric charge</li> <li>2. Able to calculate the electric potential</li> <li>3. Able to calculate magnetic field</li> <li>4. Able to calculate electric flow</li> <li>5. Able to understand the concept of light</li> <li>6. Able to understand the concept of optics</li> </ol>
Content	Discrete and continuous electric charge; electric potential; magnetic field; electromagnetic fields; electric flow; optics, light; inference and diffraction
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. Tipler, P.A., 1991, <i>Fisika untuk Sains dan Teknik</i>, Jilid 2, Edisi ke-3, Penerbit Erlangga</li> <li>b. Krane, K., 1992, <i>Fisika Modern</i>, Penerbit Universitas Airlangga</li> <li>c. Alonso and Finn, 1980, <i>Fundamental University Physics</i>, Vol.2, Addison-Wesley Publishing Company</li> <li>d. Idem no.1, Edisi terjemah dalam bahasa Indonesia, Penerbit: ERLANGGA</li> <li>e. Giancoli, D.C., 1998, <i>Fisika</i>, edisi ke-5, terjemah dalam bahasa Indonesia, Penerbit Erlangga</li> </ul>
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