

### Modul Description

<b>Module name</b>	Course Module
<b>Module level, if applicable</b>	Bachelor of Electronics Engineering
<b>Code, if applicable</b>	5005-410-2
<b>Subtitle, if applicable</b>	-
<b>Course, if applicable</b>	Science Philosophy
<b>Semester(s) in which the module istaught</b>	3
<b>Person responsible for the module</b>	Lecturer of Courses
<b>Lecturer</b>	Dr. Wisnu Djatmiko, MT
<b>Language</b>	Indonesian Language [Bahasa Indonesia]
<b>Relation to Curriculum</b>	This course is compulsory courses and offered in the 3 <sup>th</sup> semester.
<b>Type of teaching, contact hours</b>	<p>Teaching methods used in this course are:</p> <ul style="list-style-type: none"> <li>- Lecture (i.e., group investigation, small group discussion, case study, and video-based learning)</li> <li>- Structured assignments (i.e., essays and case study)</li> <li>- Practice (i.e., computer simulation and case study in laboratorium)</li> </ul> <p>The class size for lecture is 30 students. Contact hours for lecture is 27 hours, assignments are 32 hours</p>
<b>Workload</b>	<p>For this course, students required to meet a minimum of 91 hours in one semester, which consist of:</p> <ul style="list-style-type: none"> <li>- 27 hours for lecture,</li> <li>- 32 hours for structured assignments,</li> <li>- 32 hours for private study,</li> </ul>
<b>Credit points</b>	2 credit points (equivalent with 2.88 ECTS)
<b>Requirements according to the examination regulations</b>	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.
<b>Recommended prerequisites</b>	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.

<p><b>PLO-ILO-CLO</b></p>	<p>After completing the course and given with this case:</p> <p><b>Course Learning Objectives (CLO1):</b> Mahasiswa mampu memahami hakekat Filsafat Ilmu (K1) (10)</p> <p><b>Course Learning Objectives (CLO2):</b> Mahasiswa mampu memahami proses berpikir ilmiah pada Filsafat Ilmu (K1) (10)</p> <p><b>Course Learning Objectives (CLO3):</b> Mahasiswa mampu memahami sarana berpikir ilmiah sarana Filsafat Ilmu (K1) (10)</p> <p><b>Course Learning Objectives (CLO4):</b> Mahasiswa mampu menerapkan ilmu dalam perkembangan peradaban manusia (K1, S3, S4, C2) (70)</p> <p><b>Program Learning Outcome (PLO2):</b> Menerapkan ilmu-ilmu dasar untuk memecahkan masalah teknik elektronika</p> <p><b>Knowledge (K1):</b> Menerapkan matematika, ilmu dasar dan teknik dasar untuk merancang dan menganalisis untuk memecahkan masalah di bidang teknik elektronika.</p> <p><b>Engineering and Education Skill (S3):</b> Mampu mencari alternatif solusi dan pemecahan masalah di bidang teknik elektronika</p> <p><b>Engineering and Education Skill (S4):</b> Mampu mengidentifikasi karakteristik siswa untuk pembelajaran teknik elektronika</p> <p><b>Competence (C2):</b> Mampu mengelola dan mengembangkan proses, sistem operasi, dan peralatan dengan mempertimbangkan dampak teknis dan nonteknis dari kegiatan industri di bidang teknik elektronika</p>
<p><b>Content</b></p>	<p><b>Students will learn about:</b> This course is intended to provide knowledge about the nature, process, and means of scientific thinking. Lectures cover the ontological, epistemological and axiological characteristics of science, the difference between science and other knowledge, the advantages and disadvantages of science, the history of the development of science, the nature of statistical research methods, the nature of language, the nature of logic, the nature of mathematics, ethics and science, and the role of science in the development of civilization human.</p>

<b>Forms of Assessment</b>	Assessment is carried out based on written examinations, assessment/evaluation of the learning process and performance with the following components: Structured tasks: 20%; Final Test: 40%; Mid Test: 40%
<b>Study and examination requirements and forms of examination</b>	<p><b>Study and examination requirements:</b></p> <ul style="list-style-type: none"> <li>- Students must attend 15 minutes before the class starts.</li> <li>- Students must switch off all electronic devices.</li> <li>- Students must inform the lecturer if they will not attend the class due to sickness, etc.</li> <li>- Students must submit all class assignments before the deadline.</li> <li>- Students must attend the exam to get final grade.</li> </ul> <p><b>Form of examination:</b> Written exam: Essay</p>
<b>Media employed</b>	Direct Whiteboard and Power Point Presentation.
<b>Reading list</b>	<ol style="list-style-type: none"> <li>1. Suriasumantri, J.S. (1990), Filsafat Ilmu Sebuah Pengantar Populer. Jakarta: Pustaka Sinar Harapan.</li> <li>2. Suriasumantri, J.S. (1986), Ilmu Dalam Perspektif Moral, Sosial, dan Politik. Jakarta: PT Gramedia.</li> <li>3. Tim Dosen Filsafat Ilmu – Pascasarjana UNJ. (2011), Filsafat Ilmu Lanjutan. Jakarta: Kencana Prenada Media Group.</li> </ol>