

Module Handbook

Module Name:	Philosophy of Science
Module Level:	Bachelor
Abbreviation, if applicable:	PHT102
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	3 rd / second Year
Module coordinator(s):	Budi Setiawan, Drs., MA.
Lecturer(s):	Budi Setiawan, Drs., MA.
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / Elective Studies
Teaching format / class hours per week during semester:	2 hours lectures (50 min / hour)
Workload:	2 hours lectures, 2 hour structural activities, 2hours individual study, 13 week per semester, and total 78hours per semester ~ 2.6 ECTS *
Credit Points:	2
Requirements:	-
Learning goals/competencies:	<p>General Competence (Knowledge): After following this study, the student can apply scientific reasoning to "explain various natural phenomena and social phenomenon" in accordance with scientific principles.</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Describe the history of philosophy of science, philosophy and science ties 2. Explain the role of philosophy of science in the development of science 3. Explain the role of scientific mindset to diversity sciences 4. Elaborate foundation study of science (ontology, epistemology and axiology) 5. Produce written work using the method of scientific thinking 6. Explain about the truth, the relationship between culture with Science and Technology 7. Elaborate on the relationship between ethics and science
Content:	<p>Describes the philosophy of science;</p> <ol style="list-style-type: none"> a) the history of philosophy of science, b) the relationship of philosophy, philosophy of science, and science, c) the role of philosophy of science in the development of science, d) the role of scientific mindset to diversity of science, e) grounding the study of science (ontology, epistemology and axiology),

	<p>f) the method of scientific thinking,</p> <p>g) regarding the truth</p> <p>h) the link between culture with Science and Technology</p>
Attribut soft skill	To be honest, logical, and analytical
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 55 of maximum mark of the exams (UTS dan UAS), and structured activities (group discussion).</p> <p>Final score (NA) is calculated as follow: hardskill (80%) + softskill (20%)</p> <p>The hardskill = 20% group assignment + 30% individual activities + 20% UTS + 30% UAS</p> <p>The Sofskill = 25% speaking + 25% writing + 20% discipline + 20% confidence + 10% team-work</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100</p> <p>AB : 70 - 74.99</p> <p>B : 65 - 69.99</p> <p>BC : 60 - 64.99</p> <p>C : 55 - 59.99</p> <p>D : 40 - 54.99</p> <p>E : 0 - 39.99</p>
Forms of Media:	Slides and LCD projectors, whiteboards
Metode pembelajaran	Lecture, discussion, practice
Literature:	<ol style="list-style-type: none"> 1. Setiawan, Budi; Mohamad Adib; dan Listiyono Santoso, 2013, Filsafat Ilmu, Pengantar Berpikir Ilmiah, Surabaya:AUP 2. Adib, M. 2010, Filsafat Ilmu: Ontologi, Epistemologi, Aksiologi dan Logika Ilmu Pengetahuan, Yogyakarta: Pustaka Pelajar 3. Hamersma, Harry, Pintu Masuk ke Dunia Filsafat. Yogyakarta, 1984. Cetakan ketiga. 4. Keraf, A. Sonny dan Mikhael Dua, Ilmu Pengetahuan: Sebuah Tinjauan Filosofis. Yogyakarta: Penerbit Kanisius, 2001. Cetakan kelima. 5. Lanur, Alex , Logika: Selayang Pandang. Yogyakarta: Penerbit Kanisius, 1994. Cetakan kesepuluh. 6. Van Melsen, A.G. M. , Ilmu Pengetahuan dan Tanggung Jawab Kita. Jakarta: PT. Gramedia, 1992. Cetakan kedua.
Notes:	<p>*Total ECTS = {(total hours workload x 50 min) / 60 min } / 25 hours</p> <p>Each ECTS is equals with 25 hours</p>