

Module designation	Basic Science
Module level, if applicable	Undergraduate
Code, if applicable	FMPA601
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	Even/Autumn Term
Person responsible for the module	Sugiyanto, S.Pd., M.Si
Lecturer	Sugiyanto, S.Pd., M.Si
Language	Bahasa Indonesia
Relation to curriculum	Compulsory, 2 th semester.
Type of teaching, contact hours	Guided-Inquiry, Presentation, Direct Instruction: 3 x 50 = 150 minutes. Laboratory Work: 1 x 170 = 170 minutes
Workload	<ol style="list-style-type: none"> 1. Class Activities: 3 x 50 = 150 minutes (2.5 hours) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Private study: 3 x 60 = 180 minutes (3 hours) per week. 4. Laboratory Work: 1 x 170 minutes = 170 minutes (2.83 hours) per week.
Credit points	2 credit points (~3.173 ECTS cr-eq)
Requirements according to the examination regulations	Minimum of attendance is 80% for a semester
Recommended prerequisites	-
Module objectives/intended learning outcomes	<p>After completing this module, students are expected to:</p> <p>LO 6: analyze science phenomena in an integrated manner to solve problems logically, critically, systematically, and critically using information technology as data resources in the form of team work that respect the originality of other works.</p>
Content	This course covers the following three main topics: 1) Philosophy of Science, 2) The Nature of Science as a

	scientific procedure, and 3) Scientific Values.
Study and examination requirements and forms of examination	Assignment, Quiz, Midterm, Final Examination, Oral Test, Performance
Media employed	Slide Show, Video, White Board, Moodle (SIPEJAR), and Laboratory Instruments
Reading list	<ol style="list-style-type: none"> 1. Boersema, David. 2008. <i>Philosophy of Science</i>. New York: Pearson. 2. Gofur, A. 2012. <i>Handout Dasar-Dasar Sains</i>. Malang: Universitas Negeri Malang. 3. Rosenberg, A. 2011. <i>Philosophy of Science: A Contemporary Introduction (Routledge Contemporary Introductions to Philosophy)</i> (3th edition). New York: Routledge. 4. Poedjiadi, A. 2009. <i>Filsafat Ilmu</i>. Jakarta: Grapindo. 5. Schwartz, Gary, E., Russek & Linda, G. 2006. <i>The Living Energy Universe: A Fundamental Discovery that Transforms Science and Medicine</i>. New York: Hampton Roads Publishing. 6. Suriasumantri, J.S. 2001. <i>Filsafat Ilmu Sebuah Pengantar Populer</i>. Jakarta: CV. Muliasari. 7. Sugiyanto. 2005. <i>PPT Dasar-Dasar Sains</i>. Malang: FMIPA UM 8. Permen nomor 24 tentang tahun 2016. <i>Standar Isi Kurikulum IPA 2013</i> 9. JOI. 2006. <i>Bangunan Teori</i>. Universitas Satyawacana Salatiga
Date of last amendment made	May, 2020