Module designation	Insight and Review on Science
Semester(s) in which the module is taught	Odd/1st
Person responsible for the module	Team teaching
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, project, seminar, exam
Workload (incl. contact hours, self-study hours)	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points	2 SKS (3.2 ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	PLO 1 PLO 3 PLO 5 PLO 7 PLO 8
Content	This course provides students with an understanding of the philosophy of science as a discipline, scientific methods for problem solving, making conclusions based on rules of reasoning (logic), and the process of developing mathematics and science. It also discusses the relationship between mathematics and other fields of mathematics and science. At the end of the course, students work on group projects applying scientific methods.
Examination forms	Presence, task, mid semester exam, team based project.

<table>
<tr>
<td>Study and examination requirements</td>
<td>The final mark will be weight as follow:
<table>
<tr><th>NO</th><th>Assessment Techniques</th><th>Percentage Weight Assessment (%)</th><th>Information</th></tr>
<tr><td rowspan="4">1</td><td>Cognitive</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr>
<tr><td>Presence</td><td>5</td><td></td></tr>
<tr><td>Task</td><td>20</td><td></td></tr>
<tr><td>Mid Semester Exam</td><td>25</td><td></td></tr>
<tr><td rowspan="2">2</td><td>Participatory</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr>
<tr><td>Team Based Project</td><td>50</td><td></td></tr>
<tr><td></td><td>Total</td><td>100</td><td></td></tr>
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<td>Reading list</td>
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A. Yusman Wiyatmo dan Pramudya Wahyu Pradana, 2025. Filsafat Sains. Yogyakarta: UNY Press.
B. Johan Harlan, 2024. Filsafat Ilmu Logika, Jakarta: Penerbit Guna Dharma.
C. Anggi Tias Pratama.,dkk. 2020. Penggunaan STEM (Science, Technology, Engineering, And Mathematics) terintegrasi pembelajaran berbasis proyek untuk mahasiswa.Jurnal Biology Science & Education 9 (2), 115-121
D. Anggi Tias Pratama.,dkk. 2019. Ilmu Kealaman Dasar. Jakarta. Publisher Mahara Publishing.
E. Okasha, S. (2002). Philosophy of Science: a very short introduction. New York: Oxford University Press.
F. Goriely, A. (2018). Applied Mathematics: a very short introduction. New York: Oxford University Press.
G. Rapar, J.H. (2000). Pengantar Logika: asas-asas penalaran sistematis. Yogyakarta: Kanisius.
H. Soedojo, P. (2004). Pengantar Sejarah dan Filsafat Ilmu Pengetahuan Alam. Yogyakarta: Gadjah Mada University Press.

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