

### FI381 History of Physics

Module name:	History of Physics	
Module level, if applicable:	Undergraduate	
Code:	FI381	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	7 <sup>th</sup>	
Module coordinator:	Nanang Dwi Ardi	
Lecturer(s):	Nanang Dwi Ardi	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of Teaching	Contact hours per week during the semester	Class Size
<ol style="list-style-type: none"> <li>1. Lecture (discussions and presentation).</li> <li>2. Structured activities (assignments based on conceptual approaches)</li> <li>3. Self-study (reading literature)</li> </ol>	1 hour 40 minutes	35
Workload:	Total workload is 91 hours (3.2 ECTS) per semester which consists of 100 minutes lectures (before mid-exam) and (student presentation after mid exam) (0.82 ECTS), 120 minutes structured activities (0.99 ECTS), and 120 minutes self-study per week for 14 weeks (0.99 ECTS), 100 minutes for each exam (0.12 ECTS), and 240 minutes for each exam preparation (0.28 ECTS).	
Credit points:	3.2 ECTS	
Pre-requisites course(s):	-	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1. Analyse the development of experimental methods in physics</p> <p>CLO2. Analyse the development of classical physics and modern physics</p> <p>CLO3. Formulate the paradigm of the development of physics in the early classical physics and the development of modern physics</p>	
Content:	<p>Periodization of the History of Physics, Pre-Science, Ancient Babylonian, Egyptian and Greek Contributions to Physics, Islam contribution in the development of Physics, The Development of Experimental Methods in Physics, The development of classical physics, Developments in physics at the end of the 19th century, Modern physics development, - The development of philosophy and science from the 20th century to the present.</p>	

