

FI580 Statistical Physics

Module name:	Statistical Physics	
Module level, if applicable:	Undergraduate	
Code:	FI-580	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	7 th	
Module coordinator:	Lilik Hasanah	
Lecturer(s):	Lilik Hasanah	
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"> 1. Lecture (conceptual, contextual and problem-solving approaches through expository, discussions, exercises and presentations). 2. Structured activities (assignments based on conceptual, contextual and problem-solving approaches) 3. Self-study (reading literature) 	2 hour 30 minutes	35
Workload:	The total workload is 136 hours/8160 minutes (4.8 ECTS) per semester, consisting of 35 hours/2100 minutes lectures (1.24 ECTS), 42 hours/2520 minutes structured activities (1.48 ECTS) and 42 hours/2520 minutes self-study (1.71 ECTS) per week for 14 weeks, 17 hours/1020 minutes for two exams (0.6 ECTS).	
Credit points:	4.8 ECTS	
Pre-requisites course(s):	FI222 Mathematical Physics I, FI240 Mathematical Physics II, FI341 Thermodynamics, FI350 Modern Physics, FI560 Quantum Physics	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1. Describe macroscopic and equilibrium systems. CLO2. Describe the probability in physics systems. CLO3. Analyse the basic statistical description of particle systems. CLO4. Analyse the thermal interactions. CLO5. Analyse the Maxwell-Boltzmann Statistics and their applications. CLO6. Analyse the Bose-Einstein Statistics and their applications.</p>	

