MODULE HANDBOOK

Module Name	:	Modern Physics
Module Level	:	Bachelor
Abbreviation, if applicable	:	FI2204
Sub-heading, if applicable	:	
Semester/ term	:	4
Module Coordinator(s)	:	
Lecturer(s)	:	
Language	:	Bahasa Indonesia
Classification within the curriculum	:	Major Subject
Teaching format/ class hours per week during the semester	:	2 x 2-hour lectures
Workload	:	4 hours lectures, 4 hours structured activities, 4 hours individual study, 16 weeks per semester, 1024 hours a semester
Credits Points	:	4
Requirements	:	1. FI1101 Physics I 2. FI1201 Physics II 3. MA1101 Mathematics I 4. MA1201 Mathematics II
Leraning goals	:	Competencies: (1) Ability to identify a phenomenon as a classic or modern phenomenon (2) Understanding the concepts and basic principles of Einstein's special theory of relativity (3) Understanding basic concepts and principles of quantum theory, including be able to solve Schrodinger's equations for simple cases (4) Understanding quantum concepts in atoms and molecules (5) Understanding classical and quantum statistics (6) Ability to explain the concepts of solids (7) Ability to explain concepts in nuclear related aspects and elementary particles
Content	:	The course will provide students with basic knowledge on special theory of relativity and quantum theory.