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Module designation	Modern Physics
Module level, if applicable	Undergraduate
Code, if applicable	PIPAUM6207
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	Odd/Spring Term
Person responsible for the module	Yessi Affriyenni, S.Pd, M.Sc
Lecturer	Yessi Affriyenni, S.Pd, M.Sc Agung Mulyo Setiawan, S.Pd, M.Sc
Language	English
Relation to curriculum	Elective, 5 th semester.
Type of teaching, contact hours	Collaboration, Presentation, Direct Instruction: 2 x 50 = 100 minutes.
Workload	1. Class Activities: 2 x 50 = 100 minutes (1.7 hours) per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) per week. 3. Private study: 2 x 60 = 120 minutes (2 hours) per week.
Credit points	2 credit points (~3.17 ECTS cr-eq)
Requirements according to the examination regulations	Minimum of attendance is 80% for a semester
Recommended prerequisites	-
Module objectives/intended learning outcomes	After completing this module, students are expected to: LO 2: master basic physics knowledge and earth science using the Nature of Science (NOS) along with logical, critical, systematical, and innovative thinking in team collaboration using local potential and information technology development.
Content	This course covers the following three main topics: 1) Atom and 2) X-Ray

Study and examination requirements and forms of examination	Assignment, Quiz, Midterm, Final Examination
Media employed	Slide Show, Audio, White Board, and Moodle (SIPEJAR)
Reading list	<ol style="list-style-type: none"> 1. Serway, R. A dan Jewet Jr, J.W. 2014. Physics for Scientists and Engineers with Modern Physics. 9th. Brooks/Cole. 2. Serway, R.A., Moses, C.J. dan Moyer, C.A. 2005. Modern Physics. 3rd. Brooks/Cole. 3. Krane, K, 1992 Fisika Modern (terjemahan Wospakrik, HJ) Jakarta Erlangga. 4. Beiser, A, 1990. Fisika Modern (Terjemahan Liong TH) Jakarta Erlangga. 5. Ronald Gautreau, Weliliam Savin, 1995. Fisika Modern (Seri Buku Schaum).
Date of last amendment made	May, 2020