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| Module designation | Science history and phylosophy |
| Module level, if applicable | Undergraduate |
| Code, if applicable | PIPAUM6412 |
| Subtitle, if applicable | *-* |
| Courses, if applicable | *-* |
| Semester(s) in which the module is taught | Even |
| Person responsible for the module |  |
| Lecturer | Sugiyanto, S.Pd, M.Si |
| Language | Bahasa Indonesia |
| Relation to curriculum | Undergraduate degree program, elective, 4th semester. |
| Type of teaching, contact hours | Lecture/instructional and discussion, cooperative learning, 100 minutes per lecture per week |
| Workload | 1. Lectures: 2 x 50 = 100 minutes (1.7 hours) per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) per week. 3. Independent Study: 2 x 60 = 120 minutes (2 hours) per week. |
| Credit points | 2 credit points (~3.17 ECTS-eq). |
| Requirements according to the examination regulations | A student must have attended at least 75% of the lectures to sit in the exams. |
| Recommended prerequisites | - |
| Module objectives/intended learning outcomes | After completing this module, a student is expected to:  LO6 Design, implement, and evaluate innovative and productive science learning based on developmental psychology and learning theories  LO11 Demonstrate logical thinking and good scientific manner in teamwork and communicate their results in writing and orally |
| Content | 1. Understanding the philosophy of science 2. The history of the development of science 3. The basis of science: hypotheses, theory, and law, 4. The main problems in the development of science 5. Sources and limits of scientific development 6. The essence science and its implications for science learning 7. socio-scientific issues |
| Study and examination requirements and forms of examination | Project Report, Middle Semester Exam, and Semester Exam |
| Media employed | LCD, blackboard, moocs websites, UM e-learning system (Sipejar) |
| Reading list | 1. Boersema, David. 2008. Philosophy of Science. NewYork: Pearson. 2. Poedjiadi, A. 2009. Filsafat Ilmu.Jakarta: Grapindo. 3. Schwartz, gary, e., russek & linda, g. 2006. The living energy universe: a fundamental discovery that transforms science and medicine. New york: hampton roads publishing. 4. Suriasumantri, J.S. 2001. Filsafat Ilmu Sebuah Pengantar Populer. Jakarta: CV. Muliasari. |