**Bachelor of Education in Science           MODULE HANDBOOK**

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| Module designation | Curriculum and Design of Integrated Science Learning |
| Module level, if applicable | Undergraduate |
| Code, if applicable | PIPAUM6404 |
| Subtitle, if applicable | *-* |
| Courses, if applicable | *-* |
| Semester(s) in which the module is taught | Odd |
| Person responsible for the module | Erni Yulianti, S.Pd., M.Sc |
| Lecturer | Erni Yulianti, S.Pd., M.Pd |
| Language | Bahasa Indonesia |
| Relation to curriculum | Undergraduate degree program, compulsory, 5th semester. |
| Type of teaching, contact hours | Undergraduate degree program: cooperative learning, presentation 3 x 50 = 150 minutes |
| Workload | 1. Lectures: 3 x 50 = 150 minutes (2.5 hours) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Private study: 3 x 60 = 180 minutes (3 hours) per week. |
| Credit points | 3 credit points (~4.76 ECTS-eq) |
| Requirements according to the examination regulations | A student must have attended at least 80% 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 |
| Content | This course covers the following three main topics:  1) Curriculum; objectives and SKL IPA SMP, identification of science learning problems, 2) Learning strategies; integrated science learning principles, integrated science learning characteristics, science learning approaches and methods, integrated science learning models (K-2013), 3) learning design; Types of material integration (integrated, connected, share, webbed), development of IPKD learning indicators, 4) Teaching materials; essential concept map based on KD IPA SMP |
| Study and examination requirements and forms of examination | Assignment, Quiz, Midterm examination, Project |
| Media employed | LCD, power point, white board, video and moodle (Sipejar) |
| Reading list | 1. Chiappetta, E. L. & Koballa, T. R. 2014. *Science Instruction in the Middle and Secondary Schools: Developing Fundamental Knowledge and Skills* (8th edition). New York: Allyn & Bacon. 2. Joyce, B. R. & Weil, M. 2009. *Models of Teaching* (8th edition). New York: Allyn & Bacon. 3. Kementerian Pendidikan dan Kebudayaan. 2013. *Modul Pelatihan Implementasi Kurikulum 2013*. Jakarta: Kementerian Pendidikan dan Kebudayaan. 4. Kementerian Pendidikan dan Kebudayaan. 2013. *Kompetensi Dasar Sekolah Menengah Pertama (SMP)/Madrasah Tsanawiyah (MTs)*. Jakarta: Kementerian Pendidikan dan Kebudayaan. 5. Marzano, R. J., Frontier, T. & Livingston, D. 2011. *Effective Supervision Supporting the Art and Science of Teaching.* Alexandria, Virginia: ASCD. 6. Martinello, M. L. 2000. *Interdisciplinary Inquiry in Teaching and Learning*. New York: Prentice Hall. |