Modul Description

Module name	Course Module
Module level, if applicable	Magister of Biology Education
Code, if applicable	30061013
Subtitle, if applicable	-
Course, if applicable	Philosophy of science
Semester(s) in which the module istaught	I
Person responsible for the module	Lecturer of Courses
Lecturer	Dr. Hanum Isfaeni, M.Si, Dr. Rusdi M. Biomed
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a mandatory course for Magister of Biology Education and offered in the 1st semester.
Type of teaching, contact hours	Teaching methods used in this course are: - Lecture (i.e., group investigation, small group discussion, case study, and video-based learning) - Structured assignments (i.e., essays and case study The class size for lecture is 30 students. Contact hours for lecture is 28 hours, assignments are 69 hours
Workload	For this course, students required to meet a minimum of 233.2 hours in one semester, which consist of: 32.2 hours for lecture : tutorial and discuss the subject 22.00 hours for structured assignments : doing exercices and problem solving or project, 162.00 hours for independent study : reading references, group discuss, finish the exercises. Project ; 25 hours Paper : 14 hours 1 ECTS = 30 hours 233.2 hours = 7.8 ECTS -
Credit points	3 credit points (equivalent with 7,8 ECTS)

Requirements according to the examination regulations	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.
Recommended prerequisites	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.
Module objectives/intended learning outcomes	After completing the course and given with this case: **Learning Outcomes** **Social Competences:** 1. Have integrity and professional ethics, self-development, and make innovations to improve the quality of education and lifelong learning for the community (PLO1) 2. Able to apply analytical, critical, innovative, and abstraction thinking skills in the field of biology education (PLO2) **Specific Competences:** 1. able to analyze the basic philosophy and theory in the study of biology and biology learning philosophical concepts in compiling scientific knowledge (PLO4). 2. Able to analyze and synthesize problem solutions in biology learning through interdisciplinary, transdisciplinary and multidisciplinary approaches (PLO10)

Content	**Students will learn about:** The ontological, epistemological and axiological foundations in Biology Education, basic concepts of philosophy of science, philosophy of science and human beings, and their differences from other branches of science..
Forms of Assessment	Assessment is carried out based on written examinations, assessment/evaluation of the learning process and performance with the following components: Project 20%; Structured tasks: 20%; Mid Test: 30%; Final Test: 30%

Study and examination requirements and forms of examination	**Study and examination requirements:** - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. - Students must attend the exam to get final grade. **Form of examination:** Written exam: Essay
Media employed	Direct Whiteboard, Power Point Presentation, online conference platform
Reading List	1. Ewing, A.C. 2008. Persoalan-persoalan Mendasar Filsafat. Yogyakarta: Pustaka Pelajar. Noeng Muhadjir. 2011. Filsafat Ilmu. Yogyakarta: 2. Rake Sarasin, Ravertz, Jerome R. 2009. Filsafat Ilmu: Sejarah & Ruang Lingkup Bahasan. Yogyakarta: Pustaka Pelajar. 3. Surajiyo. 2009. Filsafat Ilmu dan Perkembangannya di Indonesia. Jakarta: PT. Bumi Aksara. 4. Tim Dosen Filsafat Ilmu Fakultas Filsafat UGM. 2010. Filsafat Ilmu sebagai Dasar Pengembangan Ilmu Pengetahuan. Yogyakarta: Liberty. 5. Verhaak. C & Haryono Imam. 1989. Filsafat Ilmu Pengetahuan. Jakarta: Gramedia 6. Yuyun Suriasumantri. 2007. Filsafat Ilmu – Sebuah Pengantar Populer. Jakarta: Pustaka Sinar Harapan