Module Descriptions

Module designation	*8420302245*
Semester(s) in which the module is taught	*4*
Person responsible for the module	*Utama Alan Deta, S.Pd., M.Pd., M.Si.*
Language	Indonesian
Relation to curriculum	*Compulsory ~~/ elective / specialisation~~*
Teaching methods	*Lecture, Lesson, Discussion, case study ~~lab works~~, ~~project~~, ~~seminar~~*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload: 136 work hours per-semester* *Contact hours (please specify whether lecture, exercise, ~~laboratory session, etc.~~): 40 work hours per-semester* *Private study including examination preparation, specified in hours: 94 work hours per-semester*
Credit points	3.18 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	*Key question: what learning outcomes should students attain in the module?* *E.g. in terms of:* - *Attitude: -* - *Competences -* - *Knowledge:* a) *Masters the pedagogical knowledge in planning, teaching, and evaluating physics learning as well as resource management in organizing classes, physics laboratories and educational institutions.* - *Skills:* a) *Develops logical, critical, systematic and creative thinking in carrying out specific work in the field of expertise and in accordance with the work competency standards in the relevant field.* b) *Conducts physics education research in the form of studies and evaluations of physics learning with a quantitative and/or qualitative approach in the form of oral and academic writing effectively.*

Content	*This course is a course that develops knowledge and skills related to physics education literacy, examining national and international journals, special topics in physics education research, literature review, plagiarism, bibliometric analysis, library research, publication, and mini-projects related to library research.*
Examination forms	*Essay*
Study and examination requirements	***Requirements for successfully passing the module:*** *a) Minimum attendance of 75%* *b) Minimum score of 55 out of 100*
Reading list	*a) Gary Holden, Gary Rosenberg, & Kathleen Barker. 2005. Bibliometrics in Social Work. New York: Routledge.* *b) RONALD ROUSSEAU, LEO EGGHE, & RAF GUNS. 2018. BECOMING METRIC-WISE: A Bibliometric Guide for Researchers. Chandos Publishing- Elsevier.* *c) Roberto Todeschini and Alberto Baccini. 2016. Handbook of Bibliometric Indicators Quantitative Tools for Studying and Evaluating Research. Wiley VCH Verlagh GMBH.* *d) Nees Jan van Eck and Ludo Waltman. 2018. VOSViewer Manual Version 168. Universiteit Leiden, The Netherlands.* *e) Wasis, dkk. 2018. HoTs dan Literasi Sains (Konsep, Pembelajaran, dan Penilaiannya). Jombang: Kun Fayakun* *f) Jurnal nasional dan internasional yang relevan dengan pendidikan fisika 5 tahun terakhir.*