



UNIVERSITY OF LAMPUNG

FACULTY OF TEACHER TRAINING AND EDUCATION

Department of Physics Education

Jl. Prof. Dr. Soemantri Brodjonegoro No. 1 Bandar Lampung 35145

MODULE HANDBOOK

Bachelor in Physics education

Module name	E-learning Development
Module level	Undergraduate
Code	KFI620326
Courses	E-learning Development
Description	
Semester	Even
Lecturer	Prof. Dr. Agus Suyatna, M.Si. Dr. Abdurrahman, M.Si.
Contact Person	08127911494
Language	Indonesian
Relation to curriculum	Elective
Type of teaching, contact hours	Presentation, expository, discussion
Workload	Contact hours: 14 weeks x 100 minutes Structured learning: 14 weeks x 120 minutes Independent study: 14 weeks x 120 minutes Practicum sessions: 14 weeks x 170 minutes

Credit points	3 (2-1) CP or 4.8 (ECTS) ((14 weeks x 100 minutes) + (14 weeks x 120 minutes) + (14 weeks x 120 minutes) + (14 weeks x 170 minutes)) : 60 minutes/hour = 119 hours : 25 study hours/ECTS = 4.8 (ECTS)
Requirements according to the Examination regulations	
Learning outcomes (course outcomes) and their corresponding PLOs	After completing this module, a student is expected to: 1. KNO-3: Applying Technology, Pedagogy, and Content Knowledge (TPACK) in planning, teaching, and evaluating physics learning. 2. SKI-3: Able to develop physics learning resources according to the needs and development of science and technology.
Competencies/ Course Learning Outcomes	Students are skilled at compiling syllabuses, lesson plans, developing teaching materials, broadcast materials, multimedia, discussion assignments, interactive questions for high school physics learning and posting all materials on the selected LMS, managing LMS for electronic physics learning simulations
Contents	Laboratory Equipment Maintenance and Repair course is a 3 (2-1) credit course. The subject matter of this subject covers concept of e-learning, its advantages and disadvantages, characteristics of physics material that can be taught by e-learning, types of e-learning LMS and the advantages and disadvantages of each, procedures for developing teaching materials, broadcast materials, multimedia, discussion assignments, interactive questions for e-learning high school physics learning, and posting all materials on the LMS, and procedures for managing e-learning

Study and examination requirements and forms of examination	Assignments, e-learning products
Media employed	LCD, whiteboard, and online resources
Assessments and Evaluation	Participants are evaluated based on performance test and written test (100%): • Performance in operating moodle (20%) • The task of making an e-learning PHYSICS syllabus (10%) • The task of making e-learning PHYSICS teaching materials (10%) • The task of making e-learning PHYSICS learning multimedia (20%) • The task of making a computer-based quiz (CBT) (10%) • PHYSICS e-learning products (20%) • Performance in managing e-learning (10%)
Reading list	1. Effendi, Hartono Zhuang, 2005. E-learning konsep dan aplikasi. Andi. Yogyakarta 2. Lesmana, Surya, Andhi Susano, Abdul Mufti. 2013. 2 Jam Bisa Bikin Web E-Learning Gratis Dengan Moodle: Solusi Cerdas Membuat Media Pembelajaran Online. Smart. Jakarta 3. Michael W. Allen . 2007. Designing Successful e-Learning , John Wiley & Sons, Inc 4. Pramono, Andi. 2004. Berkreasi Animasi dengan Macromedia Flash MX Professional 2004. Andi. Yogyakarta 5. Suyatna, Agus. 2016. Visualisasi Fenomena Fisika Membuat Fisika Menarik. Yogyakarta: Innosain 6. William Rice . 2011. Moodle 2.0 E-Learning Course Development, Packt Publishing,