



COURSE SYLLABUS OF PHYSICS EDUCATION STUDY PROGRAMME
FACULTY OF EDUCATIONAL SCIENCES
UIN SYARIF HIDAYATULLAH JAKARTA

Document Code
MH-PFIS

COURSE	CODE	CORE MODULE	WEIGHT (CREDITS)	WORKLOAD FOR EACH MODULE (IN MINUTES)	SEMESTER	COMPILATION DATE
DEVELOPMENT OF PHYSICS TEACHING MATERIALS (Option 9)	FTK6019323	Elective	2 SKS 3 ECTS	<ul style="list-style-type: none"> Lecture : Laboratory course: Project work: 340.0 Independent task: Structured task: Internship: Total : 340	7	September 4, 2023
Language details	Indonesian					
Teaching methods	Project Based Learning (PjBL), Collaborative Learning (CbL)					
Type of Examination	<ul style="list-style-type: none"> Participation (Attendance / Quiz): 10% Observation (Practice / Assignment): 30% Performance (Presentation): Oral Test (Group Assignment): Midterm Exam: 30% Final Exam: 30% 					
Module Coordinator	Taufiq Al Farizi, S.Pd, M.PFis					
Lecturer	Taufiq Al Farizi, S.Pd, M.PFis Devi Solehat, S.Pd, M.Pd Ai Nurlaela, S.Si, M.Si					
Course Requirements	FTK6019I02 Studying and Learning Physics, FTK6019II0 Learning Media (Analog)					
Learning Outcomes	PROGRAMME LEARNING OUTCOME (PLO)					
	PLO1 Graduates have expertise in physics and physics learning with an approach that is appropriate to Indonesia's social, cultural and environmental context. PLO2 Graduates have the ability to manage, develop and utilize technology in physics learning PLO3 Graduates have the ability to solve physics education problems using scientific methods PLO3 Graduates have the ability to solve physics education problems using scientific methods					
	Intended Learning Outcome (ILO)					
	CPL01 Mastering Professionalism skills in Physics Education: Mastering basic educational concepts, learning theories, and physics and mathematics concepts to design, implement, and evaluate innovative physics learning by utilizing information technology and the environment; able to plan, implement and evaluate innovative physics learning, utilize ICT and the surrounding environment to develop students' critical thinking skills and scientific attitudes, apply mathematical models in explaining physical phenomena, demonstrate independent and quality performance, be responsible for the achievement of group work results, carry out supervision and evaluation, as well as communicating effectively both written and verbally in educational and research contexts, as well as demonstrating good leadership and administrative skills; and demonstrate faith and devotion to God Almighty and uphold religious, moral and ethical values in every action. CPL03 Mastering Physics Education Research skills: Mastering physics education research methods and scientific writing techniques; able to conduct physics education research as a form of problem solving and present it in scientific work, assist in the implementation of physics education research, collect and analyze data, present findings professionally, prepare scientific descriptions of research results in the form of a thesis or final report, upload them on the university website, communicate effectively in a research context, demonstrating analytical and synthetic skills in solving research problems; and demonstrate enthusiasm and ethics in research and respect the results of other people's scientific work.					
	Course Learning Outcome (CLO)					
	CPMK01.85.59 Mastering the principles and concepts of Orientation and Theme Determination of Teaching Materials Curriculum Analysis and Competency Standards, Preliminary Design of Teaching Materials, Content Design of Teaching Materials (part 1), Design of Content of Teaching Materials (part 2), Media Integration in Teaching Materials, Activity Design Learning in Teaching Materials, Trial of Teaching Materials: Preparation, Trial of Teaching Materials: Implementation, Evaluation of Trial Material Results, Revision of Teaching Materials based on Feedback, Integration of Information Technology in Teaching Materials, Prototype Making of Final Teaching Materials, Presentation of Teaching Materials, Review & Integration of material with logical, critical and independent thinking and upholding religious, moral and ethical values. CPMK03.85.85 Mastering scientific methods in Initial Design of Teaching Materials, Content Design of Teaching Materials (part 1), Content Design of Teaching Materials (part 2), Media					

	Integration in Teaching Materials, Design of Learning Activities in Teaching Materials, Trial of Teaching Materials: Preparation, Teaching Material Trial: Implementation, Evaluation of Teaching Material Trial Results, Revision of Teaching Material with enthusiasm and paying attention to scientific ethics.
	Sub-CLO
	SUB-CPMK01.85.59.01.01 Students can show respect and tolerance for differences in culture, views, religion and beliefs, and accept other people's original opinions or findings
	SUB-CPMK01.85.59.01.02 Students can demonstrate attitudes, values and abilities that reflect sincerity, commitment and sincerity to develop students and society, based on local wisdom values and noble morals
	SUB-CPMK01.85.59.02.01 Students can explain course expectations and determine the theme of teaching materials
	SUB-CPMK01.85.59.02.02 Students can analyze the curriculum and competency standards relevant to the theme
	SUB-CPMK01.85.59.02.03 Students can create an initial framework for teaching materials according to curriculum analysis
	SUB-CPMK01.85.59.02.04 Students can design teaching material content according to the theme and curriculum
	SUB-CPMK01.85.59.02.05 Students can improve the content of teaching materials
	SUB-CPMK01.85.59.02.06 Students can be able to select and integrate supporting media for teaching materials
	SUB-CPMK01.85.59.02.07 Students can design interactive and interesting learning activities
	SUB-CPMK01.85.59.02.08 Students can test teaching materials with peer groups or target groups
	SUB-CPMK03.85.85.02.09 Students can analyze feedback and results from trials
	SUB-CPMK03.85.85.02.10 Students can revise Teaching Materials based on Feedback
	SUB-CPMK03.85.85.02.11 Students can integrate Information Technology in Teaching Materials
	SUB-CPMK03.85.85.02.12 Students can make prototypes of final teaching materials
	SUB-CPMK03.85.85.02.13 Students can present teaching materials
	SUB-CPMK03.85.85.02.14 Students can integrate all concepts and feedback received
	SUB-CPMK03.85.85.03.01 Students can design innovative physics learning plans.
	SUB-CPMK03.85.85.03.02 Students can evaluate the effectiveness of physics learning that has been implemented.
	SUB-CPMK03.85.85.03.03 Students can demonstrate and apply logical, critical, systematic and innovative thinking in the context of the development or implementation of science and technology
	SUB-CPMK03.85.85.03.04 Students can make appropriate and effective decisions based on information and data analysis
Brief Description of the Course	This course is a Elective course in the Physics Education Program. The topics covered in this course include Basic educational concepts and learning theories. The type of lecture used is Seminar or equivalent, Research/Research with the method Project Based Learning (PjBL), Collaborative Learning (CbL), conducted through Interactive, Collaborative.
Scientific Integration	2. develop and enrich the theories, substances and objects of scientific study;
Research and Community Service Integration	
Learning Materials	Basic educational concepts and learning theories
References	Gasong, D. (2018). Belajar dan Pembelajaran. Yogyakarta: Deepublish