



## UNIVERSITY OF LAMPUNG

FACULTY OF TEACHER TRAINING AND EDUCATION

Department of Physics Education

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## MODULE HANDBOOK

Bachelor in Physics education

Module name	English for Professional Purposes
Module level	Undergraduate
Code	KFI620101
Courses	English for Physics Education
Description	This course is a compulsory course that equips students with English language knowledge and skills regarding school physics material in accordance with the needs of schools that require teachers to be able to deliver subject matter in English. English. After attending this course, students are expected to have the skills to read and listen to physics material from English sources, and have the skills to communicate about physics material in English. English sources, and have the skills to communicate about school physics materials in English effectively and fluently.
Semester	Odd
Lecturer	Wayan Suana, S.Pd., M.Si.
Contact Person	+62 813-7977-0750
Language	Indonesian
Relation to curriculum	Undergraduate degree program, Mandatory, 1rd semester
Type of teaching, contact hours	Independent practice, Discussion and presentation
Workload	Contact hours: 14 weeks x 100 minutes Structured learning: 14 weeks x 120 minutes Independent study: 14 weeks x 120 minutes
Credit points	2 (2-0) CP or 3.2 (ECTS) ((14 weeks x 100 minutes) + (14 weeks x 120 minutes) + (14 weeks x 120 minutes) : 60 minutes/hour = 80 hours : 25 hours study/ ECTS = 3.2 (ECTS)

Requirements according to the Examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.
Learning outcomes (course outcomes) and their corresponding PLOs	SKI 5 :Able to compile and publish scientific papers both in writing and verbally effectively.
Competencies/ Course Learning Outcomes	<ol style="list-style-type: none"> <li>1. Students are skilled in reading and listening to kinematics materials in English and can explain their meaning both in writing and orally</li> <li>2. Students are skilled in reading and listening to english dynamic materials and can explain their meaning both in writing and orally</li> <li>3. Students are skilled in reading and listening to English-language materials and energy and can explain their meaning both in writing and orally</li> <li>4. Students are skilled in reading and listening to material on impulses and momentum in English and can explain their meaning both in writing and orally.</li> <li>5. Students are skilled in reading and listening to material in English and can explain their meaning both in writing and orally</li> <li>6. Students are skilled in reading and listening to thermodynamic material in English and can explain its meaning both in writing and orally</li> <li>7. Students are skilled in reading and listening to global warming material in English and can explain its meaning both in writing and orally</li> <li>8. Students are skilled in reading and listening to the material in English and can explain its meaning both in writing and orally</li> <li>9. Skilled in reading and listening to optical material in English geometry and can explain its meaning both in writing and orally</li> <li>10. Students are skilled in reading and listening to physical optical material in English and can explain its meaning both in writing and orally</li> <li>11. Students are skilled in reading and listening to static electricity material in English and can explain its meaning both in writing and orally</li> </ol>

	<p>12. Students are skilled in reading and listening to potential material and electrostatic energy in English and can explain their meaning both in writing and orally</p> <p>13. Students are skilled in reading and listening to English-language magnetic field material and can explain its meaning both in writing and orally</p>
Contents	<ol style="list-style-type: none"> <li>1. Magnitudes, units, Regular Straight Motion, and Regularly Changing Straight Motion</li> <li>2. Newton's Law of Motion</li> <li>3. Effort, Energy, and Simple Aircraft</li> <li>4. Impulse, Momentum, and Impact</li> <li>5. Temperature, Heat, Change of Form, Heat Displacement</li> <li>6. Macroscopic magnitudes, Equation of gas state Gas process Thermodynamic Law</li> <li>7. Greenhouse gases, Symptoms of global warming Effects of global warming Countermeasures against global warming</li> <li>8. Stationary Wave Walking Wave Vibration</li> <li>9. Sound source Fast sound propagation Wave equation Energy sound wave</li> <li>10. Refraction Bounce</li> <li>11. Polarisation of Diffraction Interference</li> <li>12. Electric Charge Electrostatic force Electric field</li> <li>13. Electrical Potential Effort and Electrostatic Energy of Capacitors</li> <li>14. Different types of magnets Fixed magnetic field Magnetic field on a corrugated wire</li> </ol>
Study and examination requirements and forms of examination	<p>Participants are evaluated based on ;</p> <ol style="list-style-type: none"> <li>1. Participation Activities (15%)</li> <li>2. Presentation (15%)</li> <li>3. Final Semester Exam (25%)</li> <li>4. Midterm exams (25%)</li> <li>5. Assignment (20%)</li> </ol>
Media employed	LCD, whiteboard, and online resources
Assessments and Evaluation	Written tests and performance assessments
Reading list	<ol style="list-style-type: none"> <li>1. Halliday &amp; Resnick. 2010. Fundamentals of Physics.</li> <li>2. Youtube and other internet resources</li> </ol>