



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS LAMPUNG

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <http://fkip.unila.ac.id>

Bachelor of Education in Physics

MODULE HANDBOOK

Module Name	English for Professional Purposes
Module Level, if Applicable	Bachelor
Code	KFI620101
Sub-Heading, (*if Applicable)	-
Classes, (*if Applicable)	-
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. TPAC is integrated by implementing Using software such as English simulations, online learning applications, and interactive platforms to improve students' English language skills is applied to the Active Learning Method in teaching technical vocabulary and phrases relevant to students' professions. This includes specific terms used in professional communication such as presentations. to integrate NOS by implementing future physics teachers to convey complex concepts clearly and engage critically with both scientific content and societal issues, ultimately contributing to their success as professionals in education and beyond. SSI is applied as in 1). Case Studies: Students can research these topics and present their findings in English, linking scientific principles with societal implications. 2). Debates and Discussions: Organize classroom debates on controversial topics related to physics, such as the ethical implications of nuclear energy or the use of



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS LAMPUNG

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <http://fkip.unila.ac.id>

	artificial intelligence in scientific research. This promotes dialogue and helps students articulate their thoughts in English. 3) Project-Based Learning : Assign projects that require students to explore socio-scientific issues through research and collaboration. For example, they could investigate the physics behind solar panels and discuss their impact on sustainability.
Semester	1st
Module Coordinator	Wayan Suana, S.Pd., M.Si. Hanifah Zakiya, M.Pd
Lecturers	Team Teaching of English
Language	Indonesian/English
Classification With in the Curriculum	Study Program Compulsory Courses in the second year (1st semester) of a Bachelor's Degree
Teaching Format/Class Hours Per Week During the Semester	Learning activity can be carried out in the form of Lecture or students' response a. Face to face : 50 minutes/SKS b. Structured activity : 60 minutes/SKS c. Independent activity : 60 minutes/SKS
Teaching methods	In class activity: Case Method Structured activity: Group Discussion Independent activity : Individual Task
Workload	1 CU (SKS) for bachelor degree equal to 3 work hours per week or 170 minutes. 2x50 minutes face to face, 2x60 minutes structured tasks, 2x60 minutes independent learning, for 16 weeks (including midterm and final exam), a total of 90.67 hours/semester. One CU equals to 1.51 ECTS
Credit Points	2 CU (SKS) = 2 x 1.51 = 3.02 ECTS
Prerequisites Courses	-
Course Outcomes (CO)	PLO1: Applying and communicating science concepts physics with



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS LAMPUNG

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <http://fkip.unila.ac.id>

	english CO1 : Students are skilled in reading and listening to kinematics materials in English and can explain their meaning both in writing and orally CO2 : Students are skilled in reading and listening to english dynamic materials and can explain their meaning both in writing and orally CO3 : Students are skilled in reading and listening to English-language materials and energy and can explain their meaning both in writing and orally CO4 : 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 CO5 : Students are skilled in reading and listening to material in English and can explain their meaning both in writing and orally CO6 : Students are skilled in reading and listening to thermodynamic material in English and can explain its meaning both in writing and orally CO7 : Students are skilled in reading and listening to global warming material in English and can explain its meaning both in writing and orally CO8 : Students are skilled in reading and listening to the material in English and can explain its meaning both in writing and orally CO9 : Skilled in reading and listening to optical material in English geometry and can explain its meaning both in writing and orally CO10: Students are skilled in reading and listening to physical optical material in English and can explain its meaning both in writing and orally
--	---



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS LAMPUNG

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <http://fkip.unila.ac.id>

	CO11: Students are skilled in reading and listening to static electricity material in English and can explain its meaning both in writing and orally CO12: 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 CO13: Students are skilled in reading and listening to English-language magnetic field material and can explain its meaning both in writing and orally
Content	1. Magnitudes, units, Regular Straight Motion, and Regularly Changing Straight Motion 2. Newton's Law of Motion 3. Effort, Energy, and Simple Aircraft 4. Impulse, Momentum, and Impact 5. Temperature, Heat, Change of Form, Heat Displacement 6. Macroscopic magnitudes, Equation of gas state Gas process Thermodynamic Law 7. Greenhouse gases, Symptoms of global warming Effects of global warming Countermeasures against global warming 8. Stationary Wave Walking Wave Vibration 9. Sound source Fast sound propagation Wave equation Energy sound wave 10. Refraction Bounce 11. Polarisation of Diffraction Interference 12. Electric Charge Electrostatic force Electric field 13. Electrical Potential Effort and Electrostatic Energy of Capacitors 14. Different types of magnets Fixed magnetic field Magnetic field on a corrugated wire
Study/Exam Achievements	Midterm Exam 20% Final Exam (Oral Exam) 20%



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS LAMPUNG

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <http://fkip.unila.ac.id>

	Assignment 10% Case study 50% The initial cut - off points for grades A, B+ , B, C+ C, and D should not be less than 85%, 80%, 75%, 70%, 65%, 60%, 55%, 50%, and 40%, respectively.
Examination Methods	1. Midterm Exam (UTS) ✓ UTS is held at the 8th meeting ✓ UTS is a written test in the form of objective and essay, and carried out in the classroom with an implementation time of 120 minutes according to the module schedule ✓ UTS is carried out to see the achievements of the PLO and CO which are in accordance with the characteristics of the English module 2. Final Exam (UAS) ✓ UAS is held at the 16th meeting ✓ UAS is a written test in the form of objective and essay, and carried out in the classroom with an implementation time of 120 minutes which follows the UAS implementation schedule of the department ✓ UAS is carried out to see the achievements of the PLO and CO which are in accordance with the characteristics of the English module. 3. Assignments ✓ Assignments are given as individual tasks or group tasks and submitted in a limited time. ✓ The assignments are carried out to see the achievements of the PLO and CO which are in accordance with the characteristics of the English module.



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS LAMPUNG

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <http://fkip.unila.ac.id>

	4. Rubric for Case Study ✓ Case study is given as group task in analyzing case studies and problems ✓ Case study is carried out for one semester and presented at the end of semester ✓ Case study is carried out to see the achievements of the PLO and CO which are in accordance with the characteristics of the English module.
Forms of Media	LCD, whiteboard, and online resources
Literature	1. Sudirman, M.Pd., Dewi Ismu Purwaningsih, S.Pd., M.A., & Fajrul Wahdi Ginting, S.Pd., M.Pd. (2023). <i>English for Physics</i>. ISBN: 978-623-372-968-0. 2. Allen, D. W., & Wang, W. (2023). <i>Teaching physics in English: A handbook for non-native English speaking teachers</i>. Routledge. 3. Brown, G., & Wilson, R. (2024). <i>Digital technologies in physics teaching: English for specific purposes</i>. Cambridge University Press. 4. Cooper, J. M., & Singh, A. (2023). <i>English for physics teachers: A practical guide</i>. Cengage Learning. 5. Smith, J. D., & Johnson, R. A. (2024). <i>Physics education for students: An interdisciplinary approach</i>. Cambridge University Press 6. Jumadi dan Bayu Setiaji. 2024. <i>Pembelajaran Fisika dalam Bahasa Inggris: Panduan untuk Guru</i>. Yogyakarta: UNY Press. 7. Prasetyo, Zuhdan K., Senam, dan Insih Wilujeng. 2023. <i>Pengembangan Bahasa Inggris untuk Pembelajaran Fisika</i>. Yogyakarta: UNY Press. 8. Sanjaya, Wina. 2023. <i>English for Physics Teaching: Panduan Praktis untuk Guru Fisika</i>. Jakarta: Prenadamedia Group

[illegible]

