



Module Description/Course Syllabi

Study Program : S1 Undergraduate Program
 Faculty of Agriculture
 University of Andalas

1. *Course number and name*

PTN621 04 Physics

2. *Credits and contact hours/Number of ECTS credits allocated*

3 credits (2 classes, 1 practicum)

3. *Instructors and course coordinator*

Dra.Netti Herawati, M.Sc

4. *Text book, title, uthor, and year*

1. Tipler, P.A., *Fisika untuk Sains dan Teknik: Jilid 1*; Edisi Ketiga, Penerbit Erlangga, Jakarta, 1998.
2. Giancoli, D.C., *Fisika: Jilid 1*, Edisi Kelima, Penerbit Erlangga, Jakarta, 2001.
3. Halliday, D. dan R. Resnik, *Fisika, Jilid I*, Edisi Ketiga, Terjemahan P.Silaban dan E. Sucipto, Penerbit Erlangga, Jakarta, 1988.

5. *Specific course information*

A. *Brief description of the content of the course (catalog description)*

This course studies units in physical quantities and vector analysis, balance of movement and work, collision and rotation, harmonious movement and sound, liquid objects, heat, and thermodynamics. Electricity and magnetism. Light and optical devices, Core physics. Application of physics in agriculture.

B. *Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)*

First Cycle Bachelor

C. *Semester when the course unit is delivered*

Even Semester

D. Mode of delivery (face-to-face, distance learning)
Face to face
6. Intended Learning Outcomes (CPL)
ILO 1: Able to apply basic agricultural sciences broadly in overcoming agricultural problems for sustainable agricultural development (P)
PI 1 : Explain agricultural sciences related to soil science.
7. Course Learning Outcomes (CPMK) ex. The student will be able to explain the significance of current research about a particular topic.
1. Explain agricultural sciences related to soil science.
8. Learning and teaching methods
Cooperative learning
9. Language of instruction
Indonesian
10. Assessment methods and criteria
Summative Assessment :
Assignment
UTS
UAS
Formative Assessment:
Minutes paper