

Course: Physics 1

Course code
Name
Study year
ECTS credits
Language
Coordinator

Physics 1 2020-2021 s 2 English J. Bout

Modes of delivery

Lecture Practical / Training

Assessments Physics 1 - Computer, organised by STAD examinations Physics 1 - Skills test

Learning outcomes

The student can:

Apply Newton's laws in calculations of movements of objects
Use Hooke's law to calculate strain and stress for various materials

ELVP20APHY1

Calculate the force on electric charges (Coulombs law), the electric field around and the potential difference between charged objects

- Describe the atomic structure of conductors, semi conductors and insulators and relate it to their macroscopic behavior
- present his/her measurement results using the appropriate units in clear tables and/or graphics gained with the help of spread sheet
- programmes and interpret them accordingly
- estimate the influence of measurement errors or measurement tools and of tolerance of electrical components used on the results and can present them appropriately in a measurement report
- and can present them appropriately in a measurement report
 Describe and perform calculations on mechanical systems by means of kinetic and potential energy

Included in programme(s)

Electrical Engineering Major Sensor Technology Minor Technology to Create Exchange Technology to Create (autumn)

Content

In this course you will acquire the basics

of physics necessary for the remainder of your study.

The difficulty of this course will be perceived differently due to the various backgrounds of the students. The

course consists of six lectures and four practicals. During the practicals the students will work in

pairs with the assignments. At the end

of the practicals a work sheet will be shown to the teacher, who will decide if the assignments are conducted success

credits: 2

School(s)

Institute of Engineering

share your talent. move the world.

Although every effort has been taken to ensure the accuracy of the information in the ECTS Course Catalogue, we cannot guarantee that the content and the information contained in it is always up-to-date, complete or true. Accordingly, no rights can be derived from the contents of the catalogue.