Linnæus University

Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

0TG002 Teknik för basåret II - El- och datorteknik, 4,5 högskolepoäng

0TG002 Technology for the Foundation year II - Electrical Engineering and Computer Technology, 4.5 credits

Main field of study
Technology

Subject Group
Other Subjects within Technology

Level of classification
First Level

Progression
FXX

Date of Ratification
Approved by School of Computer Science, Physics and Mathematics 2012-08-17
The course syllabus is valid from spring semester 2013

Prerequisites
Technology for the Foundation year I

Objectives

Having completed the course the students should:
- have knowledge of basic electricity, electronics, digital technology, control technology and computer technology
- be able to perform calculations on simple electrical circuits
- be able to use a computer to control a simple process.

Content

The course covers the following topics:
- basic electrical and electronic technology
- experiments in electronics and control technology
- introduction to digital and computer technology
- exercise in applied programming.

Type of Instruction

The teaching consists of lectures, exercises and laboratory work. Obligatory attendence is required for some parts of the course. Information concerning this and other

necessary information will be given at the beginning of the course.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Assessment of the student's achievements usually takes place during a specific examination period and may be written and/or oral. Assessment may also be based on submitted written tasks and exercises. The grades for the laborations are only Passed och Failed. The course grade will be based on the result of the exam.

The course 0TG002 is on an upper secondary school level. The course will not be included in an academic degree.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required reading

Sikö, Arne. *Tillämpad ellära*, Studentlitteratur, 2006. Pages 240
School of Computer Science, Physics and Mathematics.
*Laborationshäfte/arbetsmaterial*Linnæus University. Pages 50 (appr.)