



LTH

FACULTY OF
ENGINEERING

Course syllabus

Datateknik, introduktionskurs Introduction to Computer Engineering

EITA20, 6 credits, G1 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED C/D

Date of Decision: 2023-04-18

General Information

Compulsory for: IDA1

Language of instruction: The course will be given in Swedish

Aim

The purpose of the course is to introduce the students to learning strategies, their coming professional role, ethical aspects, writing, team work, webb programming and fundamental concepts in sustainable development.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- have a basic understanding of the fundamental concepts in sustainable development
- be able to relate concepts of learning strategies and career planning to their own study situation and coming professional role

Competences and skills

For a passing grade the student must

- be able to use fundamental concepts in web programming to develop a simple web site
- be able to judge the information efficiency of a simpler web site
- search for literature, write a summary of a scientific article and review a summary
- present the result of project work orally
- be able to cooperate in a project group within a given framework

Judgement and approach

For a passing grade the student must

- be able to identify and reason about ethical dilemmas
- be able to identify concepts within sustainable development in the coming professional role

Contents

- Introduction to web programming with HTML, CSS and JavaScript
- A project where the students develop a website on sustainable development. The site must fulfill:
 - Technical demands
 - Demands on usability and clarity
 - The texts must be correct and well written
- Lectures on sustainable development as a preparation for the project
- Workshops and seminars on study strategies and career planning to prepare students for their studies and their future profession
- Team building, group dynamics and ethical aspects
- Presentation skills
- Writing for engineers
- Security in laboratories

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: To pass the course all the parts of the course must be approved.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Parts

Code: 0117. **Name:** Learning Strategies.

Credits: 0. **Grading scale:** UG. **Assessment:** Take part in compulsory lessons

Code: 0217. **Name:** Web Development.

Credits: 1,5. **Grading scale:** UG. **Assessment:** Passed laboratory lesson

Code: 0317. **Name:** Writing Skills for Engineers.

Credits: 2. **Grading scale:** UG. **Assessment:** Take part in compulsory lessons and passed report

Code: 0417. **Name:** Project.

Credits: 2,5. **Grading scale:** UG. **Assessment:** Take part in compulsory lessons and passed project

Admission

The number of participants is limited to: No

The course overlaps following course/s: EDT632, EEIA01

Reading list

- Distributed material.

Contact and other information

Course coordinator: Christian Nyberg, christian.nyberg@eit.lth.se

Course homepage: <http://www.eit.lth.se/course/eita20>

Further information: Some of the compulsory moments are parts of the Engineering days (Ing-dagar)