



LUNDS UNIVERSITET
Lunds Tekniska Högskola

Course syllabus

Internet inuti Internet Inside

EITN30, 7,5 credits, A (Second Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED C/D

Date of Decision: 2023-04-18

General Information

Elective for: C4-ks, C4-sec, D4-is, D4-ns, D4-hs, E4-ks, MSOC1, MWIR1

Language of instruction: The course will be given in English on demand

Aim

The aim of this course is to develop a proficiency in prototyping Internet-based systems. The students will integrate knowledge from several courses in programming and communication through independent work.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- be able to analyze and describe system of low and medium complexity
- test och debug a design in a systematic way
- profit by search relevant information

Competences and skills

For a passing grade the student must

- Be able to suggest and formulate technical solutions for digital communication systems fulfilling given demands
- Be able to independently work in a creative way with advanced projects, and also orally clearly present, motivate and discuss obtained conclusions

Judgement and approach

For a passing grade the student must

- Be able to show insight concerning possibilities and limitations of Internet-based systems

Contents

This course focuses on prototyping an internet-based communication system. In the course a solution is implemented that uses a modular system where the students can set their own design goals.

Examination details

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

Assessment: Approved project.

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.

Admission

Admission requirements:

- EDA016 Programming, First Course or EDA017 Programming, First Course or EDAA45 Introduction to Programming or EDAA55 Programming, First Course

Assumed prior knowledge: Accustomedness to work independently, and knowledge equivalent to one of the courses EITF25/EITA55/ETSF05/ETSF10/ETSF15/EITF45 and/or its course literature.

The number of participants is limited to: 40

Selection: Of the 40 places on the course, a maximum of 4 are reserved for exchange students. Selection for remaining places: Completed university credits within the programme. Priority is given to students enrolled on programmes that include the course in their curriculum.

The course overlaps following course/s: EIT150

Reading list

- Stevens W R: TCP/IP Illustrated, Volume 1: The Protocols. Addison-Wesley, ISBN: 0-201-63346-9.

Contact and other information

Course coordinator: William Tärneberg , william.tarneberg@eit.lth.se

Course homepage: <http://www.eit.lth.se/course/eitn30>

Further information: With less than 16 participants, the course may be given with reduced teaching and more self studies.