Object Oriented Programming

Programme course

8 credits

Objektorienterad programmering

TDDC77

Valid from: 2017 Spring semester

Determined by
Board of Studies for Computer Science
and Media Technology

Date determined
2017-01-25

Main field of study
Information Technology

Course level
First cycle

Advancement level
G1X

Course offered for
- Information Technology, M Sc in Engineering

Entry requirements
Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Intended learning outcomes
The course aims to enable the students to learn basic programming and object oriented programming. After the course, the students will be able to:

- Explain basic concepts of imperative and object oriented programming
- Write and structure programs of about 1000 lines of code in an object oriented programming language such as Java
- Familiarise themselves with standard libraries for the adopted programming language and use them
- Debug and document their program

Course content
- Imperative programming
- Object oriented programming
- Object oriented software development methodology
- Problem solving
- Documentation and debugging strategies

Teaching and working methods
The course consists in lectures, laboratory assignments and a programming project in addition to the PBL-group work. The course runs over the entire autumn semester.

Examination

LAB1	Laboratory work	3 credits	U, G
BAS1	Work in PBL-group	2 credits	U, G
UPG3	Project assignment	2 credits	U, 3, 4, 5
DAT1	Written tests	1 credits	U, 3, 4, 5

A pass with grade 3 requires a pass in LAB1 and BAS1 with grade 3 in DAT1 and UPG3.
A pass with grade 4 requires a pass in LAB1 and BAS1 with at least grades 3 in DAT1 and UPG3 and such that the sum DAT1+UPG3 is between 7 and 8.
A pass with grade 5 requires a pass in LAB1 and BAS1 with at least grades 4 in DAT1 and UPG3 and such that the sum DAT1+UPG3 is between 9 and 10.

Grades

Four-grade scale, LiU, U, 3, 4, 5

Department

Institutionen för datavetenskap

Director of Studies or equivalent

Ahmed Rezine

Examiner

Ahmed Rezine

Course website and other links

http://www.ida.liu.se/education/ugrad/courses/tf/

Education components

Preliminary scheduled hours: 110 h
Recommended self-study hours: 103 h

Course literature

Additional literature

Books

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.