Object oriented programming in Java 7.5 credits D0018D

Objektorienterad programmering i Java

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-06-16

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Objektorienterad programmering i Java

First cycle, D0018D

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G VG *	Datalogi	Computer Technology

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and The course requires basic programming skills (Java or other programming languages) corresponding to Initial Programming in Java, 7.5 hp (D0017D)

Selection

The selection is based on 1-165 credits.

Course Aim

After course completion, the student should be able to demonstrate knowledge and understanding as well as practical skills in independently constructing a well-structured program with a graphical user interface and file management in the Java programming language according to object-oriented principles.

Contents

Object-oriented programming involves handling of classes and objects. Furthermore, the course includes construction of graphical user interfaces and different types of file management. The course covers the parts: - Classes and objects -Methods -Inheritance -Abstract classes and interfaces -Graphical user interface (GUI) -Applets -File management -Introduction to database connection -Separation of GUI and logic -Introduction to UML (Unified Modeling Language)

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.
The course is organized as an online course without physical meetings. In the course you will use an Internet-based learning environment where there will be support in the form of study guidance, study questions, discussion forums and more. The student will independently develop a program in several steps, from class design to user-friendly GUI and file management functionality.

The course requires the following equipment and software:
-An Internet-connected computer with the ability to install software
-A headset is recommended

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Compulsory laboratory assignments and a scheduled distance-based home exam. Oral presentation of solution to home exam.

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Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

The course is at basic level but require previous knowledge in Java programming. The home exam is given in the end of the course and requires a web-camera and micriphone connected to your computer.

Overlap

The course D0018D is equal to ISI792

2402

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0004	Assignment report 1	U G VG *	1	Mandatory	S09	
0005	Assignment report 2	U G VG *	1	Mandatory	S09	
0006	Assignment report 3	U G VG *	2	Mandatory	S09	
0007	Assignment report 4	U G VG *	1	Mandatory	S09	
0008	Take-Home Examination	U G VG *	2.5	Mandatory	A17	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Jonny Johansson, HUL SRT 2021-06-16

Syllabus established

by institutionen i Skellefteå 2007-12-28

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