

**SYLLABUS**

# **Interaction Design & Software Programming 7.5 credits D0027E**

**Interaktionsdesign & programmering**

**Course syllabus admitted: Autumn 2023 Sp 1 - Present**

**DECISION DATE  
2021-06-16**

# Interaction Design & Software Programming 7.5 credits D0027E

## Interaktionsdesign & programmering

### First cycle, D0027E

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G VG *	Systemvetenskap	Informatics/Computer and Systems Sciences

### Main field of study

Information Systems Sciences

## 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 Added to that, you must have studied databases, systems development, and programming equivalent to D0019N Software development with Java, D0006N Object-Oriented Analysis and Design, and D0005N Databases II or equivalent courses.

## Selection

The selection is based on 1-165 credits.

## Course Aim

After the course, the student should be able to:

- describe the concept of interaction design and principles for usability, user experience and user interface, within the subject information systems.
- motivate the choice of development platform and framework for interactive systems
- design, develop and present a solution in the form of a working prototype and approach on the chosen development platform.

## Contents

The course covers:

- knowledge of interaction design, concept and related areas;
- principles of usability, user experience and user interface;
- development of applications / prototypes on various technical platforms with different frameworks and design patterns.

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

During the course, students will work on a project assignment based on the chosen use case and technical platform. The course is given both on campus and at distance. Teaching consists of teacher-led lectures (on campus and web-based), and student-led seminars based on selected use cases, discussions and tutoring. For distance students, the course is completely online but with compulsory meetings.

## 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. Examination assignments in group 7.5 credits, (U / G / VG) deal with all course objectives and include oral and written presentation of project assignment.

## 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

Technical Requirements: Access to a computer with microphone, web cam and permission to install software. Internet connection (minimum 0.5Mb/sec).

## Course offered by

Department of Computer Science, Electrical and Space Engineering

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Compulsory assignments	U G VG *	7.5	Mandatory	A18	

## Last revised

by Jonny Johansson, HUL SRT 2021-06-16

## Syllabus established

by Jonny Johansson, HUL SRT 2018-02-15