

SYLLABUS

Integrated Engineering Design and Production 7.5 credits M7013T

Integrerad konstruktion och produktion

Course syllabus admitted: Autumn 2023 Sp 1 - Autumn 2023 Sp 2

**DECISION DATE
2023-02-15**

Integrated Engineering Design and Production 7.5 credits M7013T

Integrerad konstruktion och produktion

Second cycle, M7013T

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G#	Maskinkonstruktion	Mechanical Engineering

Entry requirements

MTM116/M0010T Computer-aided Design and T0015T Project in Manufacturing Engineering B, or equivalent.

Selection

The selection is based on 30-285 credits

Course Aim

After the course the student will:

- know what information is created in the different computer tools used in the product development process, and how the information can be exchanged between
- be able to exchange information between computer programmes in the different disciplines
- be able to solve basic problems within the different disciplines

Contents

Product manufacturing information in solids – PMI
CAD-systems and analysis programs
Offline-programming
Simulation of function and manufacturing processes
Reverse engineering

The aim of the course is to give students applied knowledge of different computer tools used in the product development process and how they work together. Possibilities and problems are illustrated in practical examples.

Realization

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

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 assignments and written home exam.

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 replaces MTM153, MPR052 and MPR059. The course cannot be combined with MTM153, MPR052 or MPR059.

Transition terms

2113

Course offered by

Department of Engineering Sciences and Mathematics

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Compulsory assignments	U G#	4.5	Mandatory	S07	
0003	Written home assignment	U G#	3	Mandatory	A10	

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 Mats Näsström, Head of Undergraduate Education 2023-02-15

Syllabus established

by Department of Applied Physics and Mechanical Engineering 2007-03-12