

**SYLLABUS**

# **Polymer Science and Engineering II-Processing and Design 7.5 credits T7010T**

**Polymerteknik - Tillverkning och Egenskaper**

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

**DECISION DATE  
2014-02-14**

# Polymer Science and Engineering II-Processing and Design 7.5 credits T7010T

## Polymerteknik - Tillverkning och Egenskaper

### Second cycle, T7010T

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	6 U G VG 3 4 5 *	Polymerteknik	Materials Technology

### Main field of study

Materials Science and Engineering

## Entry requirements

Basic knowledge of polymers.

## Selection

The selection is based on 30-285 credits

## Course Aim

After completion of the course students suppose to: - have basic material knowledge for materials selection; - have knowledge about testing of polymers; - understand basics of design of components; - gain knowledge about selection of processing parameters and others engineering problems arising during processing and use of polymer materials.

## Contents

Polymer structure Thermal properties Melt flow properties Extrusion Injection moulding Other processes  
Viscoelasticity and yielding Failure and chemical resistance Impact and fatigue

## Realization

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

Internet based lectures, seminars, laboratory work.

## 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. Approved oral exam, laboratory work and homeassignments. The overall grade for the course is based on the performance on exam and all other assignments.

## 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

Course is offered within systems of remote education (Internet based).

## Overlap

The course T7010T is equal to MPP006

## Course offered by

Department of Engineering Sciences and Mathematics

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0004	Oral examination	6 U G VG 3 4 5 *	3	Mandatory	A08	
0005	Laboratory work	6 U G VG 3 4 5 *	1.5	Mandatory	A08	
0006	Homeworks	6 U G VG 3 4 5 *	3	Mandatory	A08	

## 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 2014-02-14

## Syllabus established

by Department of Applied Physics and Mechanical Engineering 2001-11-15