Title:	Polymer Science: Fundamentals and Applications of Thermal Analysis
Lecture hours:	30
Lecture nours.	50
Studer nortode	Summer er winten
(summer/winter)	Summer of winter
(Summer/ Winter)	
Number of credits:	4 ECTS
Tumber of creats.	
Assessment methods:	Written reports on performed experiments
Language of instruction:	English
Prerequisites:	Basic knowledge of polymer science.
Course content:	Scanning differential calorymetry (DSC): enthalpy measurements,
	determination of crystallinity, enthalpy relaxation of glassy polymers, heat
	capacity measurements, practical problems and applications;
	Thermogravimetric analysis (TG); Dynamic mechanical analysis (DMA).
Learning outcomes:	The main goal of the course is to give students practical knowledge how to
	perform: scanning differential calorymetry (DSC), thermogravimetric analysis
	(1G) and dynamic mechanical analysis (DMA). During this course students will be acquainted with both the fundamentals of the thermal analysis techniques as
	well as the practical issues associated with the running of experiments and
	interpretation of the results. All experiments will be performed with the use of new
	commercial instrumentations.
Nome of lost more	Diote Dutlouvski
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Contact (cinan address).	
Literature:	Joseph D. Menczel (Editor) R. Bruce Prime (Editor) "Thermal Analysis of
	Polymers: Fundamentals and Applications", Wiley 2009
	• T. Hatakeyama, F. X. Quinn "Thermal Analysis: Fundamentals and
	Applications to Polymer Science" Wiley 1999.
	Bernhard Wunderlich, "Thermal Analysis of Polymeric Materials" Springer
	2005