Study program	Level of studies			First cycle		
	Study program name			Physics Education		
Course name	PHYSICAL MEASUREMENTS I					
Course ID	Semester	Cours	se status	ECTS of	credits	L+E
PHY1611	Ι	MANE	DATORY	6		3+2
Lecturer						
Aims and intended learning outcomes	<ul> <li>Course objective is to familiarize students with different experimental techniques and measuring methods of physical quantities as well as to develop their skills to independently conduct experiments, acquire and process data.</li> <li>Learning outcomes: <ol> <li>Understands experimental techniques for examination of physical quantities in the fields of mechanics, thermal science and vacuum technique</li> <li>Is familiar with basic elements of vacuum system and their usage</li> <li>Can independently make assessments and calculations in order to plan an experiment as well as to correctly process results of the experiment</li> </ol> </li> </ul>					
		Course				
measurements errors Graphical analysis of Cavendish experime determination of elast for determination of n Types of thermomete the vacuum system. F gauges.	data. Least square nt. Methods for ic properties. Tens noment of inertia. rs. Thermocouple	e method. Me measureme someters. Me Temperatur s. Thermost	easurements in nts of acceler ethods for deter e measuremer ats. Introduction	mechanics ation due mination of its. Formation to vacuur	Measure to gravity torsion me ion of tem n techniqu	ments of mass. Methods for odule. Methods perature scale. ue. Elements of
Student workload (hours)				Grading		
Lectures and Exercise	es 75		Assessment m	ethod		Points
Exam preparation	75					
Assignments			Midterm exam			50
Consultation	150	)	Final exam			50
Total			Total			100
Literature						
	ski, D. Čajkovski: Fiz	rikalna mierer	ia I i II skrinta			