

<b>Title of Course</b>	<b>Surveying</b>		
<b>Semester</b>	Autumn/Spring		
<b>Teaching Hours per Course:</b>	<b>Total</b>	<b>- Lectures:</b>	<b>- Tutorials:</b>
	30	30	
<b>ECTS Credits</b>	2		
<b>The content of education</b>			
<b>Aims of Course</b>	The purpose of the subject is teaching the competences of performing the basic geodetic surveys indispensable to the engineers of this speciality with the particular consideration of marking the linear objects in respect of the situation and height, preparing to make use of maps at the phase of design.		
<b>Program</b>	Basic informations on geodesy. Coordinates systems applied in geodesy. Types of maps. Rules of surveying. Situational surveys. Surveys orienteering. Geodesic warps, detailed surveys. Elevation surveys. Reference levels, system of elevation bench marks in Poland. Spirit levelling. Bench marks levelling, levelling of a route. Surface levelling. Trigonometric levelling. Computer methods of map making. Real estate cadastre. Land and mortgage register.		
<b>Conditions of completion</b>	To pass the lectures it is essential to obtain the positive grade of the written test comprising the knowledge of the issues discussed during the lectures and being graded in the scale: from 2,0 to 5,0.		
<b>Teacher</b>	Artur Koper, PhD		