Title of Course Semester Teaching		Big Data Spring		
		Hours per Cou	irse:	45
<b>ECTS Credits</b>			3	
		The content	of education	
Aims of Course	The course assumes basic knowledge and skills in the field of databases and programming (preferably in Python). The aim of the lecture is to present a general view of issues related to the processing of big data sets. The aim of the tutorials is to present the issues and specifics of processing big data sets, with references to typical technologies that are used at a given time.			
Program	<ul> <li>Lectures:</li> <li>Big Data - concepts and terminology.</li> <li>Big Data paradigms.</li> <li>Processing concepts for Big Data</li> <li>Storage concepts for Big Data</li> <li>Big Data - data models</li> <li>Message queues</li> <li>Problems of Big Data adoption</li> <li>Basics of working with a non-relational database</li> </ul> <i>Tutorials:</i> <ul> <li>Data cleaning, transforming and integrating</li> <li>Processing semi-structured documents using regular expressions</li> <li>Multithreaded / multitasking processing - problem formulation</li> <li>Message and task queues</li> <li>Disk based algorithms for Big Data</li> </ul>			
Conditions of completion	0 for ended the qu > 86% > 72% > 58% > 44% >= 30% < 30% <i>Tutor</i> E od 1 C to <i>F</i>	leaving question unans l questions are also possi- nestion (min. 0 points, m 6 of N+M: A 6 of N+M: B 6 of N+M: C 6 of N+M: D 0% of N+M: E 6 F <i>rials:</i> D - complete all small p A) complete final project	roject during the semeste From lectures and tutorial	max. +N points). Ope the level of difficulty er. For better mark (fro
Teacher	to E is required for both of them). PhD. Piotr Fulmański			