Course title in English	Nobel Prize in Chemistry
Course title in Polish	Nagrody Nobla w dziedzinie chemii
Course code	
Type of course	Lecture
Level of course	PhD
Year of study	1-4
Semester/trimester	1/3/5/7
Number of hours/credits allocated	30/2
Name of lecturer	Sylwia Rodziewicz-Motowidło, Ewa Wieczerzak
Objective of the course (expected learning outcomes and competences to be acquired)	 <u>Knowledge</u>: student knows the life story of Alfred Nobel and knows how the Nobel Prize was established, student knows the rules of granting the Nobel Prize in the field of chemistry, student knows at least twenty Nobel Prize Laureates in the field of chemistry, student presents interesting facts about the life of Nobel Prize Laureates in the field of chemistry, student characterizes the groundbreaking discoveries made by the Nobel Prize Laureates, student divides the discoveries made by the Nobel Prize Laureates into chemistry sections, student uses chemical, physicochemical and biological terminology to the extent necessary to present issues related to the discoveries of Nobel Prize Laureates in the field of chemistry
	 The doctoral student uses the acquired knowledge on the Nobel prizes discoveries. Social competence: student understands the need for continuous education, student discusses the most important discoveries in chemistry,

	 student shows cautious criticism in the reception of information, particularly available in the mass media, student is aware of the need for honest and reliable work, student can assess the role of team research (cooperation of scientists representing various disciplines and various scientific centers in the world) in modern chemistry, student evaluates the influence of discoveries in the field of chemistry, especially made in 1911-20 ?? on modern chemistry
Prerequisites	<u>Formal requirements</u> : no formal requirements <u>Prerequisites:</u> basic knowledge about physical and chemical laws governing nature, basic information about the structure and transformation of elements and organic compounds, basic knowledge of the construction of basic chemical equipment
Course contents	Biography of Alfred Nobel, discovery of dynamite and dynamite production, testament of Alfred Nobel, principles of granting the Nobel Prize, Nobel library, Nobel museum, biography of selected Nobel Prize Laureates who made groundbreaking discoveries in the field of chemistry, influence of Nobel researchers on modern chemistry, role of team research (collaboration between scientists representing various disciplines and various scientific centers in the world), the role of discoveries in the first ten years of the Nobel Prize granting, the role of discoveries in 1911-20 ?? in the field of physical chemistry, chemical thermodynamics, chemical reactions, chemistry of chemical bonds and theoretical chemistry, structural chemistry, inorganic and nuclear chemistry, organic chemistry, organic synthesis, chemistry of natural products, analytical and separation chemistry, chemical technology
Recommended reading	 http://www.nobelprize.org/ Prateeksha M. Tiwari "Nobel prize, winners of the world", Diamond Pocket Books Pyt Ltd, 2014 Erling Norrby "Nobel Prizes and Life Sciences", World Scientific, 2010

Teaching methods	 Laylin K. James "Nobel Laureates in Chemistry, 1901-1992", Chemical Heritage Foundation, 1993 Burton Feldman "The Nobel Prize: A History of Genius, Controversy, and Prestige", Arcade Publishing, 2001 Baruch A. Shaley "100 Years of Nobel Prizes" Atlantic Publishers & Dist, 2003 Lecture with multimedia presentation
Assessment methods	Determining the final grade based on the presentation and attendance
Language of instruction	Polish