

Course Title	Introduction to Applied Chemistry I
Registration Code	
Number of Credits	2
Years of Eligible Graduate Students	1-2
Semester	2nd
Period	out of time schedule
Room	
Instructors	Tsutomu Nagaoka
Office hours	
Goals of the course	Organometallic compounds and polymers have been studied intensively as new materials with diverse photo- and electronic functions. Basic knowledge of organometallic chemistry is essential for the understanding of physical properties and applications of these materials. This course therefore starts from the basics of organometallic chemistry and proceeds to possible application of organometallic materials in industrial fields. The students are also expected to develop English ability.
Textbooks	Printed matter will be distributed.
Books of reference	(1)The Chemistry of Organic Silicon Compounds (Eds. Z. Rappoport and Y. Apeloig), John Wiley, (1998). Inorganic Polymers, 2nd Ed. (Eds. J. E. Mark, H. R. Allcock, R. West), Oxford (2005)
Allied subject	
Homework (Preparing for the classwork)	
Course outline	This course consists of the following topics: 1. Basic organometallic chemistry of Group 14 elements. 2. Synthetic chemistry of Group 14 elements. 3. Photochemistry of organosilicon compounds. 4. Polymers of Group 14 elements: synthesis, physical properties, and some application studies. 5. Inorganic and organic hybrid materials. 6. Some specific topics on organometallic polymers.
Class schedule	
Evaluation	