

Elective Course Description (1. Fall Semester)

Subject (English)	Solid State Spectroscopy		Semester	Fall	Day/Slot	
科目名 (日本語)	固体分光學					
Course Code		Course Numbering	SPH-PHY817E		Period	Oct. - Feb.
Instructor (Post)	Go Yusa (Assoc.Prof.)				Campus	
					Building	
Faculty	Faculty of Science		Credits	2	Class Room	
Class subject	Solid State Spectroscopy					
Object and summary of class	Solid State Spectroscopy					
Keywords	Spectroscopy, optics, solid state physics					
Goal of study	The goal of this program is to familiarize students with the various methods of optical spectroscopy of solids and physical concepts developed through theories and experiments.					
Contents and progress schedule of class	<p>The topics below will be discussed in the program.</p> <ul style="list-style-type: none"> Interaction between matter and radiation Electromagnetic response and optical constants Optical response of semiconductors, insulators and metals Excitons Lattice vibrations Conventional spectroscopy methods Laser and laser spectroscopy methods 					
Preparation						
Record and evaluation method						
Textbook and references						
Self study						
In addition						