Elective Course Description (1. Fall Semester)

Subject	Introductory Courses of						
(English) 利日夕	Experimental Research in Physics III		Semester	Fall	Day/Slot		
(日本語)	物理学実験Ⅲ	学実験Ⅲ					
Course Code		Course Numbering	SPH-PHY3	01E	Period	Oct Feb.	
Instructor	M. YOSHIZAWA, et al,	YOSHIZAWA, et al,		8			
(Post)	(Prof.)	:		Building			
Faculty Faculty of Science Credits 2 Class Room							
Class subject Experimental Research in Physics							
Object and summary of class							
experiments are very important for development of new physics. Based on basic knowledge of physics, students							
Kowwords physics experiments basic research							
Goal of study							
The goal of this program is to let students experience basic research of experimental physics							
Contents and progress schedule of class							
Students are required to perform two subjects from (a) through (n) listed as below. (Subjects opened for JYPE course depend on year.).							
1. Experimental Nuclear and Particle Physics							
(a) Exp	erimental Particle Physic	s (Research Ce	enter for Ne	utrino Science	e)		
(b) Exp	erimental Particle Physic	s (Accelerator)				
(c) Expe	erimental Nuclear Physic	S					
2. Conder	nsed Matter Experiment						
(d) Pho	toemission Solid-State P	'NYSICS	le.				
(e) Soll	d State Physics on Nano	Network Solic	15				
(†) Low Temperature Quantum Physics							
(g) Mic	roscopic Quantum Pher	anotism					
	-Dimensional Quantum I	Physics					
(i) Surf	ace Physics	Trystes					
(k) Soft	: Matter Biophysics						
(I) Solic	State Photophysics						
(m) Sol	id-State Quantum Trans	port					
(n) Ultrafast Spectroscopy							
Schedule							
(1) Entry and assignment of subjects							
Students are requested to contact Prof. M. Yoshizawa by Email (m-yoshizawa@m.tohoku.ac.jp) for entry to the							
course. Assignment of the subjects is done by office considering capacity and request of the students.							
(2) The first subject							
November - December							
December - January							
Preparation nothing special							
Record and	evaluation method	Attendance	to the exper	iments 50%, c	oral examinat	ions and/or reports 50%	
Textbook an	Textbook and references Textbook and references will be introduced by each professor.						
Self study	nothing special	nothing special					
In addition							