

SYLLABUS

Classification	Graduate School	Course No.	EC5103-01	Hrs:E:Credits	3/0/3	Instructor	Ham, Byoung Seung	Lecture Language	English
Course Title	Korean	광학과 레이저							
	English	Optics and Lasers							
Course Outline	Introduction to modern optics in an intermediate level for geometrical optics, wave equation, interference, coherence, diffractions, light propagation, and fiber optics.								
Prerequisite	general physics								
Textbook & References	Textbook: Pedrotti & Pedrotti, Introduction to Optics, 3rd ed.								
	References: Born and Wolf, Principles of Optics, 7th ed. E. Hecht, Optics								
Lecture method	- 강의방식: 혼합 - 강의형태:								

Weekly Course Schedule

Week	Description	Remarks	*On-line/Off-line
1st	Historical review and background		online
2nd	Geometrical optics		online
3rd	Wave equations		online
4th	Superposition of waves		online
5th	Properties of lasers		online
6th	Interference of light		online
7th	Optical interferometry		online
8th	Midterm Exam		offline
9th	Coherence		online
10th	Fiber optics		online
11th	Fraunhofer diffraction		online
12th	Diffraction grating		online
13th	Fresnel diffraction		online
14th	Matrix treatment of polarization		online
15th	Production of polarized light		online
16th	Final Exam		offline

*If there will be experiments, mark it in the "Remarks" section.

Instructor

(seal)

Lecture Language