Syllabus

Course No.	445.20	6 Lectur	e No. 00	1	Course Title (Subtitle)				oduction to tallography		3	
Representative Instructor	Name	Chan Par	Park (post : professor		rofessor)	Homepag	e http://a	http://advmate		rials.snu.ac.kr/	
	E-mail	E-mail pchan@snu.ac.kr Phone No.).	02-880-9324			
	Interview Time/Place : Mon Wed 09;00 ~ 11;00, 1300 ~ 1500 / room 33-219											
Attachment	(Korean)											
	(English)											
Prerequisite Course	Physics, Intro to Materials Science & Engineering											
*1.Purpose of Course	Perceive the basic of crystal structures based on crystallographic symmetry and understand correlations between the crystal structure and physical properties, lattice transformations, and the principle of X-ray diffraction.											
*2.Materials and Reference	W. B. Ott, "Crystallography" C. Hammond, "The Basics of Crystallography and Diffraction" B. D. Cullity and S. R. Stock, "Elements of X-ray Diffraction" A. D. Krawitz, "Introduction to Diffraction in Materials Science and Engineering" D. Sherwood & J. Cooper, "Crystals, X-rays and Proteins"											
*3.Evaluation Method	Attenda ce	n Task	Medium		Final		Random valuation	Attitude	Other	7	Total	
		5 30	3)	30		0	5		0		0
	Remark of Others											
*4.Lecture Plan	Week 1 Crystal and crystallography Week 2 Lattice											
	Weel		Reciprocal lattice									
	Weel	Week 5 Symmetry										
	Weel	Week 6 14 Bravais lattices										
	Week 7 Point group											
	Week 8 Space group											
	Week 9 Space group & International Tables for Crystallography											
	Week 10 Crystal chemistry											
	Week 11 Fourier transform											
	Week 12 Diffraction by 1D obstacles											
	Week 13 Diffraction by 3D lattices											
	Week 14 Diffraction of real materials											
	Weel	Week 15 X-ray and X-ray diffraction										
5.References to Course Registration	ETL will be used for communication and lecture notes											