

## 97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	結晶學與繞射概論	Serial No. / ID	1394 / MS11006
Dept.	材料科學與工程學系	School System / Class	大學日間部3年1班
Lecturer	王立民	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	NO
Time / Place	(二)2 / H543 (五)56 / H543	Language	Chinese

Introduction
<p>This course is divided into two main parts: crystallography and X-ray diffraction analysis. The subject of crystallography is to introduce the the ideas of symmetry, structures, lattices and the architecture of crystals. The subject of X-ray diffraction analysis is describing the principle of X-ray diffraction and its applications in analysis of actual materials.</p>

Outline
<p>Basic Crystallography            Geometry and Stereographic Projection of Crystals            Reciprocal Lattice            Characteristics and Detection of X-rays            Coherent Scatterings and Diffraction            Fourier Transformation            Diffractions of Real Crystals            Principle of X-ray Diffractometer            Powder Diffraction</p>

Prerequisite
Calculus, General Physics