

Advanced Nanotechnology (B)

Credits: 3

Lecturers: Chen, Pei-Lin 陳培菱 and Tung, Yi-Chung 董奕鍾

Classroom: P101 Meeting Room, IoP

Class hour: Friday, 09:30-12:00

Course information:

The topics to be covered:

Chapter 1: Introduction

Chapter 2: Societal Implications of Nano

Chapter 3: Characterization Methods

Chapter 4: Fabrication Methods

Chapter 5: Materials, Structure, and the Nanosurface

Chapter 6: Energy at the Nanoscale

Chapter 7: The Material Continuum

Chapter 8: Nanothermodynamics

Chapter 9: Carbon-based Nanomaterials

Chapter 10: Chemical Interactions at the Nanoscale



Chapter 11: Supramolecular Chemistry

Chapter 12: Chemical Synthesis and Modification of Nanomaterials

Chapter 13: Natural Nanomaterials

Chapter 14: Biomolecular Nanoscience

Course notes:

Date	Lecture Notes
2016.02.26	
2016.03.04	

Reference: Review Papers

Grade: 50% midterm, 50% final