If you are interested, please make pre-registration to the course(s) at the General Office on or before March 15, 2003.

**PHY 4910  Advanced Laboratory**  3 Units
Experiments on physics and materials science.
Prerequisite: permission of the instructors.

**PART I**  
Teacher : Professor H K Wong  
Venue : SC 112
1. Compton Scattering and Gamma Spectroscopy
2. X-ray Spectroscopy
3. Special Relativity and $\beta$ Spectroscopy

**PART II**  
Teacher : Professor W K Lee  
Venue : SC 115
1. Spectral Response of a Photodiode and a CCD Chip
2. Fractals Formed by Electro-Chemical Deposition
3. Electron-Hole Recombination
4. Nuclear Magnetic Resonance and Electron Paramagnetic Resonance
5. Depletion Layer Capacitance of a Semiconductor Diode

**PART III**  
Teacher : Professor D Ong  
Venue : SC G4 & G23
1. Ellipsometry
2. Cathodoluminescence and Energy Dispersive X-ray in semiconductors
3. Material characterization by X-ray diffraction and electron microscopy

**Period :** To be arranged (two full days per week during summer session)

**Remarks:** Students must choose to work on one of the following combinations of experiments: Class A = (Part I + Part II)  OR  Class B = (Part II + Part III)

**NOTE1:** THIS COURSE WILL BE CANCELLED IF NOT ENOUGH 2nd YEAR STUDENTS ENROL.

**NOTE2:** An introduction session for this course will be arranged on March 12 (Wed) at 5:30 p.m. in L4 if there are enough students showing interest.

**PHY 4530  Selected Topics (Astrophysics)**  3 Units

**Teacher :** Professor W M Suen
**Period :** M3-4, W3-4, F3-4
**Venue :** SC LG23

NOTE: Students must have obtained Grade D or above in PHY 3201, PHY 3202 and PHY 3052 (or their equivalents) or permission of the instructor. **NOTE: THIS COURSE WILL BE CANCELLED IF LESS THAN 10 STUDENTS ENROL.**

Course Registration Deadline : May 19, 2003
Duration : from May 13 to June 30, 2003
Submission of Final Grade : July 10, 2003

February 17, 2003