

Hong Kong Baptist University
Faculty of Science – Department of Physics

Title (Units): **PHYS 4035** **TOPICS IN ENERGY SCIENCE I (3, 3, 1)**
 PHYS 4036 **TOPICS IN ENERGY SCIENCE II (3, 3, 1)**
 PHYS 4037 **TOPICS IN ENERGY SCIENCE III (3, 3, 1)**

Course Aims: These courses reflect the development of the time and the research interests of the faculty. Examples of topics include Materials Science, Electronic Instrumentation, Optoelectronics, Spectroscopy, and Nuclear Physics and Technology. These courses can be repeated for credit if the topics are different.

Pre-requisite: Year 4 standing or consent of instructor

Course Reviewed by: Dr. Jack T.F. Ng and Prof. Shu-kong So

Course Intended Learning Outcomes (CILOs):

Upon successful completion of this course, students should be able to:

No.	Upon successful completion of this course, students should be able to:
1.	Explain the general scope and issues of an area of contemporary energy science.
2.	Address some of the physical problems in that area, from simple recall of concepts to more involved quantitative modeling or laboratory experiments.
3.	Gauge development opportunities in that field.

Teaching & Learning Activities (TLAs)

CILOs	TLAs will include the following:
1, 2	Lectures or lab sessions to cover the systematics.
1, 3	Tutorials and seminars to cover the more open-ended topics. Students may be required to attend some of the departmental colloquiums.
2	Homework or lab assignments. Students are assigned readings, problem sets, and/or lab work.
1, 3	Student project presentation. Students may be required to do projects.

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Assessment Methods (AMs):

No.	Assessment Methods	Weighting	CILOs to be addressed	Remarks
1	To be specified by the instructor	100%	1-3	Generally, homework assignments and tests-examinations will be given. However, because each topic will have different emphasis, the exact form of assessment and weights is best left to the discretion of the instructor. For example, some may, in addition, require mini-projects whilst others may require literature surveys.

Learning Outcomes and Weighting:

Content	LO No.	Teaching (in hours)
To be specified by the instructor	1-3	36

Textbook: To be specified by the instructor

References: To be specified by the instructor