Hong Kong Baptist University Faculty of Science – Department of Physics

Title (Units): PHYS 4065-66-67 TOPICS IN PHYSICS I, II, III (3, 3, 1)

Course Aims: To provide the student with more advanced knowledge of physics. This

subject covers more advanced topics or topics of current interest. Some

examples of topics includes: Acoustics, Computer-controlled

Instrumentation, Materials Science, Electronic Instrumentation, Lasers and

Their Applications, Optoelectronics, Semiconductor Physics, and

Spectroscopy. This subject can be repeated for credit if the topic is different.

Pre-requisite: Year 4 standing or consent of instructor

Course Reviewed by: Dr. Jack 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 physics.			
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	Weighting	CILOs to be	Remarks
	Methods		addressed	
1	To be specified	100%	1-3	Generally, homework assignments and
	by the instructor			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