Course Code	PHYS8002 (RPG)					
Title	Advanced Topics in Theoretical Physics					
Offering Department	Physics					
Course Co-ordinator	Prof X D Cui Physics					
Course Co-ordinator Email	xdcui@hku.hk					
Teachers Involved	Name Department			rtment	Percentage	
	Various teachers in department	n the	Physi	cs	100	
Course Objectives	To provide an opportunity for students to extend their studies in theoretical aspects of fundamental physics.					
Course Contents & Topics	A series of lectures on advanced topics in theoretical physics, including quantum theory, electromagnetism and statistical mechanics, and their application to several fields of physics of contemporary interest, including astrophysics and condensed matter physics.					
Course Learning Outcomes (CLO)	On successful completion of this course, students should be able to: CLO 1 have a comprehensive overview of topics in theoretical physics CLO 2 understand the basic concepts, research oriented techniques and research advances in theoretical physics CLO 3 apply knowledge in understanding theoretical physics					
Pre-requisites (and Co-requisites and Impermissible	Nil					
combinations)						
	Y 1st sem 2nd se	em		Examination	Dec 1	May
combinations)	Y 1st sem 2nd se Pass or Fail	em		Examination	Dec 1	May
combinations) Offer in 2023 - 2024		tantial connections at least and crops familiar resentation or no evidence learning.	st mostitical and some simulation of the state of the sta	I of a broad range at of the course labilities and logica ome unfamiliar signs.  If command of known omes. Lack of analywery little or no abil	of knowearning I thinking the t	wledge and skills outcomes. Show ng, and ability to Apply effective and skills required discritical abilities, ply knowledge to
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Quota	9999 (9999 if no quota)
Required/recommended reading and online materials	Nil