

**Hong Kong Baptist University**  
**Curriculum for Minor Programmes**

**Minor Programme : Physics and Green Energy (\*PGE)**

Course Group	Course	Course Title	Unit	Core (C) / Elective (E)
<b>Physics and Green Energy Minor Core Courses (#R-PGE-CORE-001)</b>				
	PHYS2005	Heat and Motion	3.00	C
	PHYS2025	Renewable Energy Sources	3.00	C
<b>Physics and Green Energy Minor Elective Courses (#R-PGE-ELECT-001)</b>				
	MAJC3906	Major/Concentration Elective Course	3.00	E
	PHYS2006	Electricity and Magnetism	3.00	E
	PHYS2015	Guided Study in Physics and Energy Science I	3.00	E
	PHYS2016	Mathematical Methods for Physical Sciences I	3.00	E
	PHYS2017	Mathematical Methods for Physical Sciences II	3.00	E
	PHYS2018	Experimental Lab I	1.00	E
	PHYS2019	Experimental Lab II	1.00	E
	PHYS2026	Energy Storage, Distribution and Conservation	3.00	E
	PHYS2027	Mechanics	3.00	E
	PHYS2115	Electronics	3.00	E
	PHYS3005	Atomic and Nuclear Physics	4.00	E
	PHYS3015	Structure and Properties of Matter	3.00	E
	PHYS3017	Green Energy Lab with Computers and Personal Mobile Devices	3.00	E
	PHYS3025	Physics and Technology of Energy Conversion	3.00	E
	PHYS3027	Intermediate Electromagnetism	3.00	E
	PHYS3037	Guided Study in Physics and Energy Science II	3.00	E
	PHYS3045	Scientific Computing and Modeling	3.00	E
	PHYS3046	Non-Fossil Fuels	3.00	E
	PHYS3047	Thermal and Statistical Physics	3.00	E
	PHYS4006	Advanced Green Energy Laboratory (Metrology)	3.00	E
	PHYS4007	Advances in Displays and Lighting	3.00	E
	PHYS4015	Introduction to Intellectual Property	2.00	E
	PHYS4016	Renewable Energy Materials and Devices	3.00	E
	PHYS4017	Semiconductor Physics and Devices	3.00	E
	PHYS4026	Surface Analysis and Characterization	3.00	E
	PHYS4035	Topics in Energy Science I	3.00	E
	PHYS4036	Topics in Energy Science II	3.00	E
	PHYS4037	Topics in Energy Science III	3.00	E
	PHYS4045	Electromagnetic Waves and Optics	3.00	E
	PHYS4046	Quantum Mechanics	3.00	E
	PHYS4047	Advanced Functional Materials	3.00	E
	PHYS4055	Advanced Experimental Lab	3.00	E
	PHYS4056	Energy Management I	3.00	E
	PHYS4057	Energy Management II	3.00	E
	PHYS4065	Topics in Physics I	3.00	E
	PHYS4066	Topics in Physics II	3.00	E
	PHYS4067	Topics in Physics III	3.00	E
	PHYS4075	Solid State Physics	3.00	E
	SCIP4005	Interdisciplinary Topics in Science - Organic Electronics	3.00	E

Remarks: 1. Students are required to take the core courses of PHYS2005 and PHYS2025; and 9 units from #R-PGE-ELECT-001. At least one course must be at level 3 or above.

\* 4-Year Curriculum