

Comparison between HKDSE and International A-level - Physics

The Edexcel International Advanced Level in Physics comprises six units. Based on experience here at ITS Education Asia, HKDSE syllabus overlaps with around 80% of Units 1, 2, 4 and 5 (depending on elective choices). There is no laboratory-based practical assessment. All practical assessment is conducted in a written format in Units 3 and 6. A breakdown is listed below on the areas that are in International A-level, but not in the compulsory part of the HKDSE syllabus.

Outstanding topics in IAL and not in the HKDSE

Unit 1 : Physics on the Go	
Materials	Laminar and turbulent flows
	Motion in a fluid
	Hooke's law and Young modulus
	Material properties
	Elastic strain energy

Unit 2 : Physics at Work	
Waves	Electromagnetic spectrum
	Polarisation of light
	Wave nature of electrons (included in Elective VII)
	Doppler effect (included in Elective VI)
	Scanning
Nature of Light	Photoelectric effect (included in Elective VII)
	Science in decision making

Unit 4 : Physics on the Move	
Electric and Magnetic Fields	Capacitance
Particle Physics	Rutherford's atomic model (included in Elective VII)
	Particle accelerator
	Standard model

Unit 5 : Physics from Creation to Collapse	
Oscillations	Simple harmonic motion
	Resonance
Astrophysics and Cosmology	Standard candle
	Parallax (included in Elective VI)
	Hertzsprung-Russell diagram (included in Elective VI)
	Black bodies (included in Elective VI)
	Cosmological expansion (included in Elective VI)
	Binding energy (included in Elective VIII)

If you have further enquiries, please contact ITS at +852 2116 3916 or by email at info@itseducation.asia. ITS Education Asia is a full Edexcel academic centre in Hong Kong (Centre Number 92885). Further consultation is completely free of charge. You might also refer to the following FAQ page from ITS Education Asia <http://www.itseducation.asia/UK-faqs.htm>

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