



2020 Syllabus

Objective: to provide a general idea about the concepts that may appear in the competition

Scope: the syllabus covers the major concepts that are critical to holistic understanding of Physics.

What it is not: the syllabus is not meant to be exhaustive or detailed.

	Areas	Concepts
	1. Motion	Distance Displacement Time Velocity Speed Acceleration Vector
	2. Forces	Energy Work Power Pressure Simple machines Action-reaction Inertia and acceleration Resistance
	3. Heat	Heat Energy Temperature Kinetic particle theory Phase transition Heat capacity Transfer

	4. Charges	Charges Particles Current Potential Resistance System Circuit Magnetism
	5. Waves	Wave Wavelength Frequency Spectrum Light Sound Property Medium
	6. Others	Anything not covered by the above areas and concepts