



ZIAUDDIN EXAMINATION BOARD

EXAMINATION SYLLABUS 2020-2021

Grade: IX

Subject: Physics

This exam syllabus is produced to facilitate teachers, students and the test setters to teach, learn and assess subject specific learning. This syllabus is condensed to align the course content with the teaching learning time during COVID 19.

DETAIL SYLLABUS

TOPICS / THEMES	SUB TOPICS	TEXT BOOK PAGE NUMBERS	COGNITIVE LEVELS		
			K	U	A
Introduction	What is PHYSICS? Importance of PHYSICS in daily life.	1-5	✓	✓	
Measurement	Physical quantities Measuring instruments (Vernier caliper, micrometer screw gauge, Measuring cylinder)	13-16,22-31	✓		✓
Kinematics of linear motion	Rest & motion Types of motion Distance & Displacement Speed Velocity Acceleration Equations of motion	32-38	✓	✓	
Motion & force	Force Newtons laws of motion Mass & weight Momentum	46-53,58-60	✓	✓	✓

Vectors	Introduction (scalar, vectors) Vector representation Resolutions of vectors	70,71,77	✓		
Equilibrium	Torque or moment of a force Centre of gravity Conditions of equilibrium States of equilibrium	86-89,91-99	✓	✓	
Circular motion & Gravitation	Uniform circular motion Centripetal acceleration Centripetal force Law of universal Gravitation Mass of Earth Variation of 'g' decreases with altitude	108-117	✓		
Work, Power & Energy	Work Power Energy Kinetic energy Gravitational potential Energy	22-126	✓		✓
Properties of Matter	Elasticity Hooks law applied to a helical spring pressure Pascals law Application of pascal law (hydraulic lift) Archimedes principle Analytical treatment of Archimedes principle Buoyancy & law of floatation Kinetic molecular theory of matter	134-151	✓	✓	
Heat	Temperature General features of a thermometer Mercury in glass thermometer	165-172	✓	✓	

	Thermal expansion Linear thermal expansion of solids Volume thermal expansion Anomalous expansion of water Boyles law Charles law General gas equation Heat capacity Specific heat capacity				
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