PHYSICS CLASS X (CRASH COURSE ICSE)

SL.NO.	CHAPTERS	TIME PERIOD
1	**Force, Work, Power and Energy** • Turning forces concept; moment of a force; forces in equilibrium; centre of gravity. • Work, energy, power and their relation with force. • Different types of energy. • Machines as force multipliers. • Principle of Conservation of energy.	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
2	**Light** • Refraction of light through a glass block and a triangular prism. • Total internal reflection • Lenses (converging and diverging) including characteristics of the images formed (using ray diagrams only). • Using a triangular prism to produce a visible spectrum from white light; Electromagnetic spectrum.	
3	**Sound** • Reflection of Sound Waves; echoes: their use; simple numerical problems on echoes. • Natural vibrations, Damped vibrations, Forced vibrations and Resonance - a special case of forced vibrations. • Loudness, pitch and quality of sound.	
4	**Electricity and Magnetism** • Ohm's Law; concepts of emf, potential difference, resistance; resistances in series and parallel, internal resistance. • Electrical power and energy. • Household circuits • Magnetic effect of a current (principles only,statement of laws not required); electromagnetic induction (elementary).	
5	**Heat** • Calorimetry: meaning, specific heat capacity; principle of method of mixtures; Numerical Problems on specific	

	heat capacity using heat loss and gain and the method of mixtures. • Latent heat; loss and gain of heat involving change of state for fusion only.	
6	**<u>Modern Physics</u>** • Radioactivity and changes in the nucleus; background radiation and safety precautions	