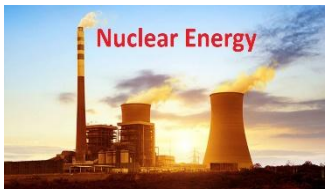
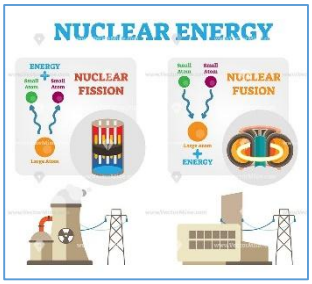
OBJECTIVES AND COURSE CONTENT OF SHORT TERM COURSES

TAC No.	HBAS-5 (02 – 06 November 2026)
Name of the Course	**Nuclear Power Technologies - Sustainable Energy** (Interdisciplinary) National Level
Objectives of Course 	The objective of the course is to provide knowledge to participants in the field of nuclear power generation technologies and its benefits. The phenomenon of nuclear fission and fusion, Fission based reactors and nuclear power plants, Nuclear Power as sustainable source of Energy, Radiation detections and safety measures as well as development options for reactors based on nuclear fusion will be the major focus.
Course Content 	Nuclear Strength and Concept of Binding energy; Nuclear Fission and Fusion processes; Fission Reactors and Power Generation; Radiation Detection and Measurements; Nuclear Fuels for Power Reactors; Breeder Reactors; Accelerator driven systems (ADS)Small modular reactors, Fusion Reactors Technologies; Radioactive waste and Safety measures; Experiments with nuclear radiations; etc. Video presentations to supplement the factual knowledge with the field of work.
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