

OBJECTIVES AND COURSE CONTENT OF SHORT TERM COURSE

Operational Plan No.	ICT-101 (16 - 20 February 2026)
Name of the Course	Advances in Laser Technology (Inter-Disciplinary) National Level
Objective of Course	The objective is to update the knowledge of participants in advancement of lasers and lasers based technologies. The emphasis will be to understand the laser properties, lasing principles, design aspect of different lasers, beam profiles and controls, ultrafast lasers and advanced laser applications etc..
Course Content	Overview on Lasers and laser applications; Lasing principles and conditions, Design aspects and Optimum output power; Types of lasers; Handling and Safety measures; Controls and modulation of laser beams; Ultrafast lasers, Technological developments and applications in areas like, material processing, communication, medicines, defense and aerospace and holography. Demonstrations/video presentations etc.
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