

OBJECTIVES AND COURSE CONTENT OF SHORT-TERM COURSES
(Contact Mode)

Operational Plan No.	AS-6
Name of the Course	Learning Physics through Experiments (04 - 08 January 2027)
Objectives of Course	The objective of the course is to train teachers and technical staff from Polytechnics and Engineering colleges to upgrade applied physics laboratories in their respective institutions. The emphasis, therefore, will be to learn the concept of physics by doing purposeful and interactive experiments and include these as the practical work in the curriculum of polytechnic and engineering college for developing scientific temper among students.
Course Content	Role of laboratory in Physics teaching; Physical world and measurements; Error estimation in measurements; Theoretical concepts behind practical work; Graphical representation of data and analysis; Need and Relevance of Calibration, Quality and Testing; Conceptual physics experiments; Use of computers in physics laboratory; Preparing worksheets and Models for Lab. Experiments, Good laboratory practices etc.
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