

## Objectives and Course Content of Short Term Courses

Operational Plan No.	AS-4
Name of the Course	Fiber Optics Technology: Potential and Applications
Objectives of Course	Optical transmission has acquired a special place in communication technology over past forty years. A fiber acts as a waveguide to transmit information from one place to another and the information carrier is an optical wave. Since an optical wave can accommodate large amount of information the system has a great potential. Further, any change in the waveguide structure alters the properties of the light propagating through it and this can be used for sensing even micro changes. The course endeavours to provide an opportunity to the participants to learn and appreciate the technology options in the field of communication, sensing and medicines.
Course Content	Needs and potential of optical transmission, fundamentals of optical fiber wave guiding, transmission characteristics, optical sources and detectors, OFC system design concepts, fiber optic sensing, sensor configurations- extrinsic and intrinsic, Medical use of optical fibers, latest developments in the field of fiber optics technology and lab practices/field visit.
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