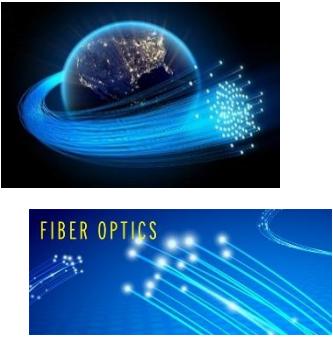


Objectives and Course content of the STC

Operational Plan No.	AS-11 (09 - 13 March 2026)
Name of the Course	Fiber Optic : Test and Measurements (National Level)
<u>Objectives of Course</u> 	Optical fiber communication has acquired a special place in modern communication industry over past four decades. OFC links based on optical carrier can accommodate large amount of information and have a great potential to meet the global telecommunication challenges. For successful implementation of such systems various active and passive optical devices are required at different stages. The course objectives are to provide an opportunity to learn and appreciate the design aspects and efficient performance of such devices and interfaces in OFC systems and related field of photonics.
<u>Course Content</u> 	The course shall cover the topics: Modern OFC systems, Fundamentals of optical fiber wave guiding, Transmission characteristics, Active and passive optoelectronic devices-LED, ILDs, PINs and APDs, Optical amplifiers and Interfaces like Couplers, WDM/DWDM devices, Optical isolators, etc.; Fiber-optic instruments and components for troubleshooting; OTDR testing, Optical fiber Splicing and termination, BER Testing for system performance evaluation; Laboratory experiments covering practical aspects for fiber characterization, testing and video demonstrations.
Course Coverage	The course contents will be covered by experienced faculty of NITTTR Chandigarh and Experts from CSIO, BSNL and Industry personnel. Video clips for highlighting Experimental setup, Testing instruments, OE devices and Optical fibers splicing will be the integral part of contents.
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