

# PHOTONIC SENSORS

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*Sustained efforts have been made at CSIR-CSIO over the last several years in the area of Fiber optics based research activities resulting in infrastructure development, expertise generation and fabrication of sensors & devices. These activities include optical fiber light guide technology, fiber optic components, assemblies and instruments, optical fiber measurement and characterisation benches, fiber optic sensors, application specific fiber optic systems, fiber Bragg gratings (FBGs) & long period gratings (LPGs) writing technology and associated sensors. Work has also been carried out in other related areas such as: holographic optical elements (HOEs), holographic non-destructive testing (HNNT) for defect diagnosis and restoration of precious art & cultural objects, display holography for exhibition of precious and culturally valuable objects, machine readable security holograms and holo phase mask for FBG writing. Details of the achievements made, infrastructural facilities established and current & future R & D programmes taken up in the area of Photonics are described here.*

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