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| |  | | --- | |  | | ***( EE0903753)Optical Communications Systems*** | | |  | | | **Course Description :** | General overview of the course. Optical fibers, Attenuation and dispersion, guided wave propagation, modes in optical fiber. Laser generation, semiconductor lasers. Light amplifiers and their applications. Optical modulation techniques. Multiplexing methods. Optical detectors and receivers, quantum efficiency, responsivity and bandwidth. Optical communication systems: optical modems, digital optical networks. Nonlinear optics and Soliton systems. Simulation techniques and practical aspects. Research Project. | | **Pre Request :** | 0903750 | | **Credit Hour :** | 3 | | **Department :** | Electrical Engineering | | **Program :** |  | | **Course Level :** | Master | | **Course Outline :** |  | |