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| |  |  | | --- | --- | | ***( EE0903750 )Electromagnetic Fields and Radiating Systems*** | | |  | | | **Course Description :** | Review of Maxwell's equations including the boundary conditions. Wave equation and the general plane wave in lossless, lossy and good conducting media. Energy flow and the pointing vector. Reflection, refraction and scattering of electromagnetic waves. Modes classification and the general concept of transmission lines including two conductors system (coaxial cable) and one conductor system (waveguides). The resonant cavities. Radiation of electromagnetic waves and antennas. | | **Pre Request :** | N/A | | **Credit Hour :** | 3 | | **Department :** | Electrical Engineering | | **Program :** |  | | **Course Level :** | Master | | **Course Outline :** |  | |