

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Biomedical Engineering

### M.E. Semester: II

Subject Name: **Electromagnetic Compatibility (Major Elective III)**

Sr. No.	Course Content
1.	Introduction to Electromagnetic Interference and Compatibility
2.	Cabling, Shielding, Grounding, Balancing and Filtering
3.	Passive components, Contact Protection,
4.	Intrinsic noise source. Active device noise.
5.	Digital circuit issues.
6.	RF and Transient Immunity
7.	ESD, PCB level considerations
8.	Pre compliance tests
9.	Applications and case studies of EMC

#### Reference Books:

1. Electromagnetic Compatibility Engineering, H W Ott, John Wiley & Sons, 2009
2. Noise reduction techniques in electronic systems. II., Ott, Henry W., 1936