

## ANTENNA LABORATORY

III B.Tech. I Semester

Course Code: A225489

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### COURSE OUTCOMES:

At the end of the course the student should be able to

1. Illustrate the different ways of measuring antenna parameters.
2. Differentiate the different Radiation pattern of the antennas
3. Study the characteristics of Antennas
4. Articulate the performance of Antennas based on the measurements
5. Formulate an antenna design using Antenna technologies.

### LIST OF THE EXPERIMENTS: (Perform any 10 experiments)

1. Measurement of parameters of Half wave Dipole Antenna
2. Measurement of parameters of monopole Antenna
3. Measurement of parameters of large loop Antennas
4. Measurement of parameters of small loop Antennas
5. Measurement of parameters of Helical Antenna
6. Measurement of parameters of 2- element Antenna Array
7. Measurement of parameters of Yagi-Uda Antenna
8. Measurement of parameters of Folded Dipole Antenna
9. Performance analysis of N-element linear array
10. Design and simulation of Crossed Yagi Antenna
11. Study of performance of 2x2 Helical Antenna Array
12. Design and analysis Planar reflector antenna
13. Design and study of 3x3 dipole Antenna Array