

III Year II Semester

Code: 17EC653

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**ANTENNA DESIGN USING HFSS
(Skill Course Lab-I)**

Pre- requisites:

HFSS Basics

HFSS Basics:HFSS Introduction, Overview of the user interface, Structure Modeling—Basic Modeling, Analytical Modeling, Ports definition & design, boundary conditions and solvers

Experiments: Using HFSS Design

1. Rectangular Waveguide horn antenna.
2. Dipole antenna.
3. Monopole antenna
4. Loop antenna
5. Helical antenna
6. Microstrip line fed rectangular patch antenna
7. Coaxial probe fed circular patch antenna
8. Microstrip line fed triangular patch antenna
9. Circularly polarized microstrip patch antenna
10. Ultra wideband antenna
11. Planar array antenna
12. Band pass filter