

Curriculum for Antenna Design Course

Overview:

Antennas play a major role in the wireless world. Current generation of communication systems have variety of antennas catering to diversified requirements. Hence there is a need to study the design, fabrication, measurement and testing of antennas.

Academic community can enrich their domain knowledge through our courses and in turn help the student's community to enhance their knowledge about antenna technologies.

Students can get special training for their projects/ research and also industry approach for their future job opportunity.

Upon completion of the course, trainees will:

- Be proficient in basic electromagnetic principles or to investigate the finer intricacies of the different CEM techniques for various applications such as Antenna Design, Simulations, Antenna Placements, EMI/EMC, Microwave Engineering, etc.

Applications

- 3D antenna design analysis of horns, micro strip patches, wire antennas, reflector antennas, conformal antennas, broadband antennas, arrays
- Antenna placement analysis of antenna radiation patterns, radiation hazard zones, etc. with an antenna placed on a large structure, e.g. ship, aircraft, armored car
- Electromagnetic coupling and interference (EMC, EMI) analysis of diverse EMC problems including shielding effectiveness of an enclosure, cable coupling analysis in complex environments, e.g. wiring in a car, radiation hazard analysis

Assessment: Students should obtain

Min 80% of attendance

Min 80% Participation in practice session


Quiz



Coordinator



PRINCIPAL
SIET, TUMKUR



HOD
HOD
Dept of E&C
SIET, Tumkur-6