

Antenna Design Workshop

The entire globe has come closer owing to the modern telecommunication technology. Wireless communication has made it possible to connect billions of people through voice and data signals. This wireless communication has become so powerful only due to its key element i.e. 'ANTENNA'. Considering the emerging demands in the field of communication, designing efficient antenna is the major requirement of the day. Therefore, to give a hands-on practical experience of antennas, Department of Electronics and Telecommunication, Government College of Engineering, Amravati in association with RF Aqua Solutions, Pune organised a three days workshop on 'Design, Fabrication and Field Testing of outdoor Antennas and Radar Equipment' during 09th to 11th December 2023.

The main objective of the workshop was to integrate the practical fundamentals of antenna design in the students with sufficient hands-on. The guest speaker Mr. Aniruddha Kulkarni and Mr. Mukund Bhopale emphasized mostly on the topics like Antenna design Methodology, various terminologies related to antenna and Radar, Underwater submersible electronics. The students also learned the fabrication and testing technologies, by designing, fabricating and testing antennas for sky-wave propagation on their own.

The workshop prominently focused on balancing the theoretical and practical coverage of the antenna design. The points covered in the workshop included Hands-on X-band marine radar and radar emulator, Signal analyser, interference and noise measurement, Acoustic transmission using water channel, SONAR, Role of GPS, designing various antenna models such as Reflector antenna, PICO Cell antenna, Flexible micro-strip antenna, Loop antenna, Yagi antenna.

The workshop organised for the final year students received overwhelming response, with active participation of around 65 students.

Prof. S. J. Meshram, Coordinator, Dr. P. R. Deshmukh, Head of Electronics and Telecommunication, Prof, P.L. Paikrao Shri. K. H. Bhagat worked hard towards the successful organization. The student volunteers gave their best in managing the day-to-day schedules.

Dr. A. M. Mahalle, Principal, GCoE, Amravati congratulated the coordinator, HoD and staff for sincere efforts that made the workshop a great success.





