# Future Engineers Get Hands-on Training in Antenna Design and Radar Tech at GCoE Amravati

Amravati: The Electronics & Telecommunication Department of the Government College of Engineering, Amravati, recently hosted a highly successful three-day workshop focusing on ‘Design, Fabrication and Field Testing of Outdoor Antennas and Radar Equipment’ during 5th to 7th October 2026. The three-day event drew an overwhelming response, seeing active participation from around 60 third-year engineering students eager to bridge the gap between their academic curricula and rapidly evolving industrial demands.

The workshop provided a blend of advanced theoretical insights and rigorous practical sessions. Participants gained comprehensive exposure to modern antenna design methodologies and the intricate processes behind fabricating various configurations, including Reflector, PICO Cell, Flexible Microstrip, LOOP, and Yagi antennas. In an era where high-speed data streaming and aerospace navigation dictate global technological progress, the training underscored antenna performance as the critical ‘voice’ and ‘ear’ of modern electronics.

Beyond antenna design, the curriculum delved deeply into aviation and maritime safety systems. Students explored the applications of Primary Radar in Air Traffic Management, worked with Marine Radar Emulators, and studied the classification of various Radar Sets and Tracking Radar Antennas.

A major highlight of the workshop was the extensive hands-on training with X-band marine radar. Students engaged in practical field exercises covering spectrum, interference, and noise measurement utilizing Fast Fourier Transform (FFT) techniques. Additionally, the cohort utilized advanced Signal Analysers to measure analog, digital, and leakage radiation parameters, alongside executing real-world RF Survey techniques using GPS and specialized mapping software.

The sessions also offered a rare glimpse into specialized marine engineering fields, featuring detailed demonstrations on underwater submersible electronics, acoustic transmission, hydro-acoustics, and SONAR technologies.

The intensive training modules were masterfully delivered by industry expert Anirudha S. Kulkarni from RF Aqua Solutions, Pune. The event was seamlessly coordinated by Prof. S. J. Meshram, under the visionary guidance of Dr. P. R. Deshmukh, Head of the Electronics & Telecommunication Department.

Commending the initiative, the Principal of GCoE Amravati emphasized that such immersive industry-linked workshops are pivotal in equipping students with the core competencies required for global technological excellence.

The management also acknowledged the dedicated efforts of Dr. P. L. Paikrao, Prof. V. R. Raut, and student coordinators Preet Godhlekar, Ashwajit Dahiwade, Trunal Meshram, Nirbhay Rathod, Arpita Kulkarni, Samruddhi Take, Tanvi Ghongde, and Ojas Dhanskar, whose hard work ensured the flawless execution of the program.

The workshop concluded with the distribution of official training completion certificates to all successful participants.

# Workshop Photo Gallery

Workshop Photo 1

Workshop Photo 2

Workshop Photo 3

Workshop Photo 4

Workshop Photo 5

Workshop Photo 6

Workshop Photo 7

Workshop Photo 8

Workshop Photo 9