

### Report on Industrial Visit to NARL

Date: 19.08.2019

The Narayana Engineering College, Nellore organized a one day industrial visit to “NATIONAL ATMOSPHERIC RESERCH LABORATORY” (NARL), Gadanki, chittoor on 16.08.2019 for III B.Tech ECE Students. NARL is an autonomous research laboratory fully funded by the department of space, government of India and involved in carrying out fundamental and applied research in atmospheric and space sciences.

NARL has now become one of the prime centers for atmospheric research in the country and operates state-of-the-art MST Radar, Rayleigh, Mie LIDAR, Boundary layer LIDAR, sodium LIDAR, lower atmospheric wind profiler, Sodar, Disdrometer, Optical rain gauge Dual frequency GPS receiver, automatic weather station apart from regular launching of the GPS ballon sonde.

The following are the Highlights of the visit

- Students got witnessed the tethered Balloon Observation Platform (TBOP) which provides a facility for in situ measurement of atmospheric variables up to an altitude of 500 m.
- Students got witnessed the bird eye view of NARL campus, MST Radar, HF Radar, MST Radar, ICON Tower, LIDAR, Rayleigh/Mie lidar.
- Students visited High performance computer lab (Super Computer), data center, LIDAR (laser Radar) lab, L-band Radar lab.
- NARL carries out its research activities under seven major groups, namely, Radar applications and development group, Ionospheric and space research group, atmospheric structure and dynamic group, cloud and convective systems group, Aerosols, Radiation and trace gases group, Weather and climate research group and computers and data management group apart from these there are special research center.

The Industrial Visit was very well welcomed by the Students.



