

Department of Electronics & Communication
Report on Industrial Visit to
ISTRAC
(ISRO TELEMETRY TRACKING AND COMMAND NETWORK)
August 08, 2018

The Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT has organised an Industrial Visit to ISTRAC (ISRO Telemetry Tracking and Command Network), Lucknow, on 8 August ,2018 for second and third year students.

For students pursuing professional education, knowledge gained within the confines of four walls of a classroom does not suffice for holistic development. To bridge this gap between theoretical knowledge and practical application, the department organized this visit to one of the most prestigious organizations of our country under the mentorship of respected Prof. Dr. V. K. Singh, Director (Engg).



Initially, they were taken to a conference room where they were addressed by the two senior supervisors of ISTRAC, Lucknow Mr. D. C. Tripathi and Dr. R. K. Mishra, who explained the working procedures of ISTRAC and its role in satellite launching and space craft's.



ISTRAC, Lucknow was established on 6 September 1976 .It was established for the telemetry, tracking and for commanding of satellites. It has a broad application in satellite launching. It also makes payloads, which is important for satellites. The students were taken for the site visit of ISTRAC where there were divided accordingly by their respective departments. Further, the students were taken to the Navigation buildings, where the tracking of satellites is done. They also track IRNSS which is also known as NAVIC. After that, they lead the students to IRIMS and IRNWT-2 where they manage to take the reference of time for accuracy. There was an IRDCN Station, which controls the communication process of satellite. There was an 11m ranged antenna which transmits and receiver's data and accordingly to the command provided. In the telemetry department, which was led by Siddharth Sir, where the readings given by satellites are recorded. They had TTCP device, which acts as a receiver. At last, the students went to Antenna Room where there was an ACU (Antenna Control Unit) which controlled the antenna process having four motors which controlled azimuthally and elevation of signals transmitted or received.