

Vidya Prasarak Mandal, Thane's

Maharshi Parshuram College of Engineering

Hedvi-Guhagar road, At: Velneshwar, Taluka: Guhagar, Dist: Ratnagiri (Maharashtra) 415 729

Report on Industrial Visit Report

Venue: VSSC Thiruvanthapuram & Kerala State Electronics Development Corporation Ltd.
(KELTRON)

Date: 06/04/2023

Department: E&TC and Instrumentation Engineering

The College of VPMPCOE Velneshwar of E&TC and Instrumentation Engineering Department organized an industrial visit to Vikram Sarabhai Space Center (VSSC), ISRO, Thiruvanthapuram, and Kerala on 06/04/2019, for 19 students belonging to SE, TE and BE E&TC and Instrumentation Engineering Department. These students were accompanied by faculty members Prof.G.P.Khapre and Mrs. Priyanka Nikam. The visit commenced at 11 am, where series of formalities were undertaken by the military officials from the canal entrance gate to the respective venue.

The VSSC is one of the major research and development establishments within ISRO. VSSC is an entirely indigenous facility working on the development of sounding rockets, the Rohini and Menaka launchers, and SLV, ASLV, PSLV, GSLV and GSLV Mk III families of launch vehicles. Its first act was the establishment of the Thumba Equatorial Rocket Launching Station (TERLS) at Thumba, in Thiruvananthapuram. Thumba was picked as the launch site for sounding rockets for meteorological and upper atmospheric research due to its location on the geomagnetic equator. Every third Wednesday of each month, VSSC at TERLS launches Sounding Rockets. Ms. Meena Nayar, Jr .Scientist, VSSC, ISRO, welcomed the gathering and guided the students to VSSC. At the Control Center, demo video of Initial Sound rocket was shown and the models of all the Sound Rockets are explained.

Ms. Meena Nayar and his Team answered all the related queries of the students which they observed at VSSC, ISRO. Students and Faculty Team also visited the Space Museum at TERLS and witnessed many models of Initial satellites and Rockets. VSSC appreciated the initiative taken up by VPMPCOE Department of E&TC and Instrumentation Engineering for introducing such visits for the young minds and nurturing their careers. Hence, the industrial visit to VSSC, ISRO enriched knowledge of both students and faculty members to increase the know how about Meteorological and Communication Rockets and their Launching.

At afternoon Session 2nd visit to Kerala State Electronics Development Corporation Ltd.(KELTRON) we visited the Power Electronics Group (Section) where Mr. Wilson explained us about manufacturing of Uninterrupted Power Supply (UPS), manufacturing of Transformer and PCB fabrication in detail

In the post lunch session, we visited Security and Surveillance Group where Mr. Rajesh explained us about two manufacturing electronic equipment - Expandable Bathythermograph (XBT) and Indian Regional Navigation Satellite System (IRNSS) named as NAVIC which is only used by ISRO to detect the natural calamities. Overall, the visit was very informative and fruitful.



Group Photo at VSSC Thiruvananthapuram



Group Photo at Kerala State Electronics Development Corporation Ltd. (KELTRON)

Mrs.Priyanka Nikam
IV Coordinator

Mr.Gajanan P Khapre
HOD E&TC Engg Dept

Mr.Ketan Kundiya
HOD INT Engg Dept