

# Industrial Visit report

MCA department organized the educational visit to ISRO (Vikram Sarabhai space Center) and Science city on 07/12/2022. Total 51 students participated along with 3 faculty members. The bus facility provided and its pickup points were fatehgunj, chhani, vasad and anad.

First, we reached Science city and visits aquarium gallery, robotics gallery and planetarium. It was good experience to gain enough knowledge about different species of fishes and their different breeds. In the robotics gallery they presented different robotics technologies and its hardware and software components, they also give us the knowledge about AI.

They showed different working robots and its demo. In the planetarium there were various kind of articles about space and plants. There were also some old IT based technology components, and they also showed the dummy working of launchers and satellite.

After having the lunch, we visited the ISRO. First of all, they presented some details about ISRO. After that they presented one short film and knowledge about planets, orbits, launchers, satellite and types of satellite.

They also provided knowledge about different components and parts of satellite, they showed some real components of satellite to us.

Instructors of ISRO provided knowledge about different between different launchers and satellite.

## **Some details we learned at ISRO:-**

### **Communications satellite:-**

Supports telecommunication, television broadcasting, satellite news gathering, societal applications, weather forecasting, disaster warning and Search and Rescue operation services.

### **Earth observation satellite:-**

The largest civilian remote sensing satellite constellation in the world - thematic series of satellites supporting multitude of applications in the areas of land and water resources; cartography; and ocean & atmosphere

### **Scientificspacecraft:-**

Spacecraft for research in areas like astronomy, astrophysics, planetary and earth sciences, atmospheric sciences and theoretical physics.

### **Navigationsatellite:-**

Satellites for navigation services to meet the emerging demands of the Civil Aviation requirements and to meet the user requirements of the positioning, navigation and timing based on the independent satellite navigation system.

### **LaunchMissions: -**

#### **PSLV-C54:-**

ISRO's work horse PSLV-C54 has successfully launched EOS-06 satellite along with Eight Nano-satellites into two different SSPOs. The mission was accomplished from Satish Dhawan Space Centre SHAR on 26th November 2022.

EOS-06 is third generation satellite in the Oceansat series, which provides continued services of Oceansat-2 with enhanced payload capability. The satellite onboard carries four important payloads viz. Ocean Color Monitor (OCM-3), Sea Surface Temperature Monitor (SSTM), Ku-Band Scatterometer (SCAT-3), ARGOS. The Oceansat-2 which was launched during Sept-2009 configured to cover global oceans and provide continuity of ocean colour data with global wind vector and characterization of lower atmosphere and ionosphere. The mission resulted in many research collaborations nationally and internationally on various areas global chlorophyll distribution, Kd 490 distribution, ocean color images, oil spillages, wind vector products.

Some picture of this wonderful visit:-











