REPORT

Of

INDUSTRIAL VISIT

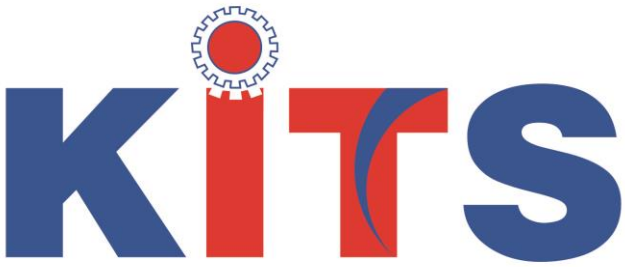
AT

SATISH DHAWAN SPACE CENTER (ISRO)

SRIHARIKOTA

DATE OF VISIT: 08/09/2017

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES

VINJANAMPADU,GUNTUR, AP-522017

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INDUSTRIAL VISIT REPORT

AT SATHISH DHAWAN SPACE CENTER SRIHARIKOTA (ISRO)

DATE: 8th September 2017
EVENT: Industrial Tour
Faculty Coordinators:

Mr. E.V. Narayana, Mrs. T. Bhavani, Mr. B.Venu, & Ms. T. Revathi

Total students: 127

EVENT DESCRIPTION:

An Industrial visit has been organized by Department of Electronics and Communication Engineering for the III year I Semester Students on 08th September, 2017. The Main objective of the visit was to provide a technical Exposure to the students about Space Technology.

Totally 127 students of III year ECE of KITS (KKR&KSR INSTITUTE OF TECHNOLOGY &SCIENCEs) Visited ISRO , SATHISH DHAWAN space center.

SESSION ACTIVITIES:

The students were accompanied by 4 faculty members .The buses with students have started from our college city office at 10:00pm on 7/09/2017 and reached the ISRO campus at 10:30 am.

ISRO VISIT*:* Students visited ISRO and learnt about

- LCC (launching control centre)
- MCC (machine control centre)
- SLP(second launch pad)
- FLP(first launch pad)
- ISTRAC(ISRO telemetry tracking and network centre)

Forenoon session ,we visited the **space museum** in the same campus The visit came to an end at 4:30pm.It was informative, interesting and successful visit.

SATISH DHAWAN SPACE CENTRE(SDSC) or SRIHARI KOTA HIGH ALTITUDE RANGE(SHAR) is a rocket launch centre operated by Indian space research organization (ISRO). it is located in sriharikota in Andhrapradesh. The Sriharikota range has been choosen for its proximity to the equator and to use the rotation of the earth .It is close to lake PULIKAT and it is about 100km north of Chennai and close to the BAY OF BENGAL.

We learnt about the computer system used in LCC for launch control. In MCC(machine control centre) is the focal point controlling vehicle There are 8 hold buttons at different places around the range in case of abnormalities in sub-systems, the hold button is used to terminate the count down . In case the abnormality has been resolved the first row is used to supervise to control the operations on the vehicle .various chiefs of operations are seated in these rows is computers are connected by Ethernet and fiber optics.

FIRST LAUNCH PAD (FLP) is the polar satellite launch vehicle (PSLV).It is one of the 2 orbit launch pads at the site the other been the second launch pad . Unlike the UMBILICAL type this is a PEDESTAL type the whole tower moves away from the rocket just before the blast off,

SECOND LAUCH PAD (SLP) is the geosynchronous satellite launch vehicle (GSLV) .This is the location that we seen every time a launch is broadcast on television .The rocket is assembled and brought to the launch pad. The rocket is electrically insulated from lighting by four lightening protection towers. these towers also house high resolution cameras at several levels to monitor the various stages of the rocket. The launch pad itself is about 70 meters high .An anchor is present to hold the rocket in place until the time of blast off.

ISTRAC(ISRO TELEMETRY TRACKING AND COMMAND NETWORK) is about the ground stations which are located at Bangalore ,lucknow, maurituis ,sriharikota ,portblair ,Thiruvananthapuram and the deep space network stations.

Many Students said “I WANT TO WORK IN ISRO” due to the inspiration. We expressed our thanks to the management of kits, principal, head of the department of ECE who permitted us to go on the visit , the faculty members who accompanied us and the officials who explained about the various departments ,on behalf of the students we request you to arrange more industrial visit for students which can practically train the students.


सतीश धवन
केन्द्र
शार
SATISH DHAWAN