



GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY
Department of Electronics and Communication Engineering

AY 2016-17

Industry Institute Coordination Cell (IICC)

Consolidated Report on Industrial Visits

S.No	Name of the Company	Visited Date	No.of Students Visited
1	Satish Dhawan Space Centre SHAR, Sriharikota, Nellore Dt.	03.11.2016	140 students

K.P.B.
Faculty- In charge

Prasanna
HOD
Head of the Department
Dept. of Electronics & Communication Engineering
**GEETHANJALI INSTITUTE OF
SCIENCE & TECHNOLOGY**
GANGAVARAM (V), Kovur (M),
S.P.S.R. Nellore Dt. A.P. Pin : 524 137



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Department of Electronics and Communication Engineering

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Industry Institute Coordination Cell (IICC)

Satish Dhawan Space Centre SHAR, Sriharikota

Dt: 03.11.2016

SI. NO	H T NO	Name of the Student
1	132U1A0402	AKKARAPAKAM SRIKANTH
2	132U1A0403	ALTURU BABY SAI
3	132U1A0404	ALURU MADHUSUDHAN
4	132U1A0406	AMURU POOJITHA
5	132U1A0407	ANGILIKAM PRIYANKA
6	132U1A0408	AVVARI MALLIKA
7	132U1A0409	BACHU SAI SRAVYA
8	132U1A0410	BALABOMMA NAGA DILIP
9	132U1A0412	BIJJAM SREELAKSHMI
10	132U1A0413	BOBBA NIHARIKA
11	132U1A0414	BODICHERLA GEERVANI
12	132U1A0416	CHAKKARATHI P V Y A M SAI RAVI KIRAN
13	132U1A0417	CHALLA JEEVANA
14	132U1A0418	CHEEMAKURTHI SUMATHI
15	132U1A0419	CHENNAREDDY DURGA HARIKA
16	132U1A0420	CHEVURU BINDU BHARGAVI
17	132U1A0421	DACHURI SIVA KUMAR
18	132U1A0422	DAGGOLU RAJASRI
19	132U1A0423	DAMAVARAPU MANOJ KUMAR
20	132U1A0424	DANA VISANKHA
21	132U1A0425	DANDU BHARGAVI
22	132U1A0426	DANISSETTY SAI MOHAN
23	132U1A0427	DHANALA MOUNIKA
24	132U1A0428	DUDALA SUPRIYA
25	132U1A0429	DUGGIRALA VENNELA
26	132U1A0430	DUGGIREDDY SIREESHA
27	132U1A0431	EETE PRASAD
28	132U1A0432	ESNAKULA HARIKA
29	132U1A0433	GADDE VENUGOPAL
30	132U1A0434	GANGAVARAPU TAPASWI
31	132U1A0435	GOGULAPALLI VINAYSAI
32	132U1A0436	GOLLAPALLI PRASANTH

33	132U1A0437	GOVINDU SREE ABHINAYA
34	132U1A0438	GRANDHI MEGHANA
35	132U1A0439	GUNJI MANOJA
36	132U1A0440	GUNJI MOULIKA
37	132U1A0441	GUNJI NAVEEN BABU
38	132U1A0442	JAGANNADHAM KAMAKSHI
39	132U1A0444	JAMJAM SASI KANTH
40	132U1A0445	JAMJAM TEJASWINI
41	132U1A0446	JAMPURAM SRAVYA
42	132U1A0447	JUVVALADINNE NAVYA
43	132U1A0448	KADIYALA NARMADA
44	132U1A0449	KAKARLA LAKSHMI VENKATA CHIRISHMA
45	132U1A0450	KALEEM SYED
46	132U1A0451	K KAMALA SWETHA
47	132U1A0452	KANNA LAKSHMI
48	132U1A0453	KARETI DEEPIKA
49	132U1A0455	KODAVATI SUSMITHA
50	132U1A0456	KOLANENI THULASI
51	132U1A0457	KOLLUKUDURU SUDHEER
52	132U1A0458	KONIDINA VENKATA SRUTHI
53	132U1A0459	KURRA PALLAVI
54	132U1A0460	M VENNELA
55	132U1A0461	MADA ROCHEERMAI
56	132U1A0462	MAGUNTA SAI LAKSHMI
57	132U1A0463	MALLI CHARAN TEJA
58	132U1A0465	MANTHENA USHA MADHURI
59	132U1A0466	MARELLA SASI NANDAN
60	132U1A0467	MEKALA MUKESH
61	132U1A0468	MOPURU GURU SWAMY
62	132U1A0469	MULUMUDI DHARANJA
63	132U1A0471	MUNGARA KAVYASRI
64	132U1A0472	MUNGARA RAVALI
65	132U1A0473	ML BHAVANI
66	132U1A0474	MUNTHA SREEJA
67	132U1A0475	MURAMREDDY MOUNIKA
68	132U1A0476	MU SAMPATH KUMAR
69	132U1A0477	MY KOMALI PRIYADARSHINI
70	132U1A0478	N ANJANI PRIYANKA
71	132U1A0479	NAGIRIPATI HARISHA
72	132U1A0480	NAA VENKATESWARLU
73	132U1A0482	NUTALAPATI JAYASRI

74	132U1A0483	NUVVUSETTY KISHORE
75	132U1A0490	PAYYAVALA KAMAKSHI
76	132U1A0491	P SUMAN SRIKANTH
77	132U1A0492	PERISETTY VAMSEE
78	132U1A0493	PETETI VENKATA SRIPRIYA
79	132U1A0494	PONUGOTI SPANDANA
80	132U1A0495	POOSALA MANASA
81	132U1A0496	PUTTUR YAMINI
82	132U1A0497	RI MAHESH KUMAR
83	132U1A0498	R VARAPRASADREDDY
84	132U1A0499	R V LAKSHMI NIHARIKA
85	132U1A04A0	SAKAMURI SAIGREESHMI
86	132U1A04A1	SANAMPUDI SHANMUKHACHARI
87	132U1A04A2	SETEPETE ANUSHA
88	132U1A04A3	SHAIK ABDUL KAYUM
89	132U1A04A4	SHAIK FAHMEEN TAZ
90	132U1A04A5	SHAIK FARSHYA BANU
91	132U1A04A6	SHAIK KARIMULLA
92	132U1A04A7	SHAIK MD NOOR E BANU
93	132U1A04A8	SHAIK MUJAHIDA SULTHANA
94	132U1A04A9	SHAIK NASIRSALEEM
95	132U1A04B0	SHAIK SABIHA SULTANA
96	132U1A04B1	SHAIK SAJID ALI
97	132U1A04B2	SHAIK TUSHARA
98	132U1A04B3	SHAIK YASEEN SULTHANA
99	132U1A04B4	SIDDAVARAPU HARITHA
100	132U1A04B5	SOMISETTY NAGAJYOTHI
101	132U1A04B6	SRIKANTA KARTHIK
102	132U1A04B7	SURE SUPRIYA
103	132U1A04B8	SYED ALIFA
104	132U1A04B9	SYED SUFIYAN
105	132U1A04C0	SYED TABASSUM
106	132U1A04C1	SYED THAHASIN
107	132U1A04C2	TALLAPAKA BHUPATHI
108	132U1A04C3	TALLURU VANIPRIYA
109	132U1A04C4	TAMMIREDDY ANUSHA
110	132U1A04C5	TANGIRALA SAI ANOOP
111	132U1A04C6	TELUGU SAI RAMYA
112	132U1A04C7	TENKAYALA THULASI
113	132U1A04C8	THIKKAVARAPU MAHITHA
114	132U1A04C9	T RAVI BHARADWAJ

115	132U1A04D0	TI CHANDANA RAVALI
116	132U1A04D1	UPPALA SAI KUMAR
117	132U1A04D2	UPPALA SARITHA
118	132U1A04D3	UI ANIL KUMAR REDDY
119	132U1A04D4	VANAKURU LAKSHMI PRIYA
120	132U1A04D5	VANDANA MOUNIKA
121	132U1A04D6	VANGARA HEMANTH SAI SREE
122	132U1A04D7	VEDAGIRI GOWRI KEERTHANA
123	132U1A04D8	VELURU SUPRIYA
124	132U1A04D9	VENGALASETTY VINAY
125	132U1A04E0	VIGRAHALA MADHULATHA
126	132U1A04E1	VOMMINA SARATH KRISHNA
127	132U1A04E2	M VENKATA BHARATH KUMAR
128	132U1A04E3	MUNGAMURU LAHARI REDDY
129	142U5A0401	AITA HARISH
130	142U5A0402	AKURATHI CHANDRA SEKHAR
131	142U5A0403	BONTHALA KALYANI
132	142U5A0404	GONUPALLI AMARENDRA
133	142U5A0405	GUDURU ASHOK
134	142U5A0406	KOTA DINESH
135	142U5A0408	PETA SWAPNA
136	142U5A0409	SHAIK SHAHUL
137	122U1A0455	KALASAPATI SOUNDARYA
138	138W1A0418	MANCHALA RANI NIMEELITHA
139	122U1A04B4	P.SRIKANTH
140	122U1A04G5	U.VINAY KUMAR

S.No	Designation	Name of the faculty
1	Asst .Professor	M.Mahesh Kumar
2	Asst .Professor	Masthan-E-Shaik Shahina
1	Asst .Professor	P.V.Krishna Rao
2	Lab Technician	P.Haritha
1	EO	S.V.Subba Reddy
2	Lab Technician	S.Neraja


Faculty In-Charge


HOD-ECE



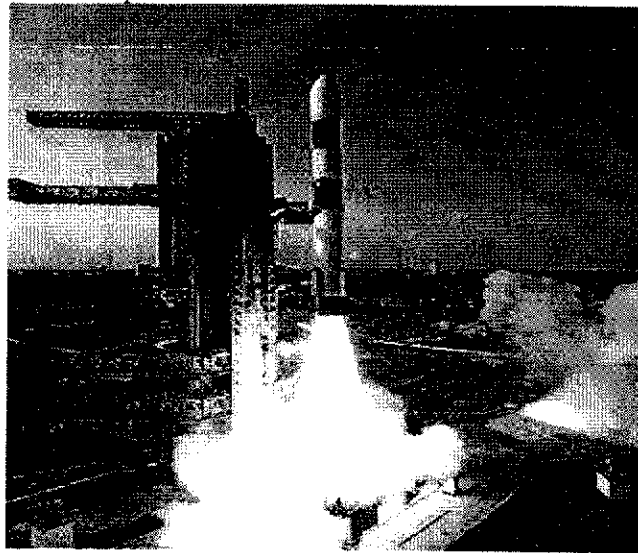
GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY

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INTRODUCTION:

India has established a strong infrastructure for executing its space programme. They include facilities for the development of satellites and launch vehicles and their testing; launch infrastructure for sounding rockets and Satellite Launch vehicles; telemetry, tracking and Command Window, data reception and Processing Systems for remote sensing. A number of academic and research institutions as well as industries participate in the Indian Space Programme. Several Indian industries have the expertise to undertake sophisticated jobs required for space systems.

Among them SDSC SHAR is one of India's primary space center subordinated to Vikram Sarabhai Space Center Indian Research Organization –department of Space, founded by Government of India and involved in the launch complexes provide complete support for vehicle assembly, fuelling, checkout and launch operations.



The Centre has two operational orbital launch pads. SHAR is ISRO's satellite launching base and additionally provides launch facilities for the full range. The Vehicle Assembly, Static Test and Evaluation Complex (VAST, previously STEX) and the Solid Propellant Space Booster Plant (SPROB) are located at SHAR for casting and testing solid motors. The site also has a Telemetry Tracking & Control centre, Liquid Propellant Storage and Servicing Facilities (LSSF), the Management Service Group and Sriharikota Common Facilities. The launch complex was commissioned in 1990. It has a 3,000 tonne, 76.5 m high Mobile Service Tower (MST) which provides the SP-3 payload clean room.

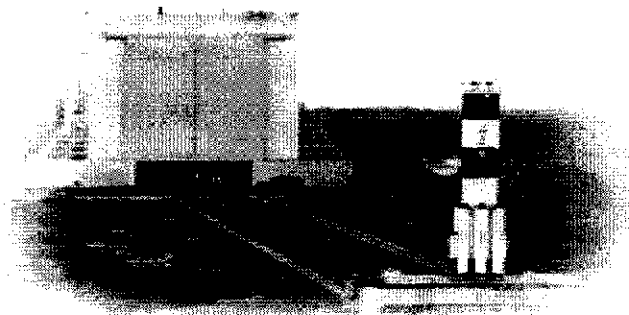
The solid propellant space booster plant (SPROB) processes large size propellant grains for the satellite launch vehicles. The Static Test & Evaluation Complex (STEX) tests and qualifies different types of solid motor for launch vehicles. The closed centre at SHAR houses computers and data processing, closed circuit television, real-time tracking systems and meteorological observation equipment. It is linked to three radars located at Sriharikota and the five stations of ISRO's Telemetry, Tracking & Command Network.

The propellant production plant produces composite solid propellant for rocket motors of ISRO using ammonium perchlorate (oxidiser), fine aluminium powder (fuel) and hydroxyl terminated polybutadiene (binder). The solid motors processed here include those for the first stage booster motor of the Polar Satellite Launch Vehicle (PSLV) — a five segmented motor of 2.8 m diameter and 22 m length, weighing 160 tons with a thrust level of 450 tons.



LAUNCH PAD 1:

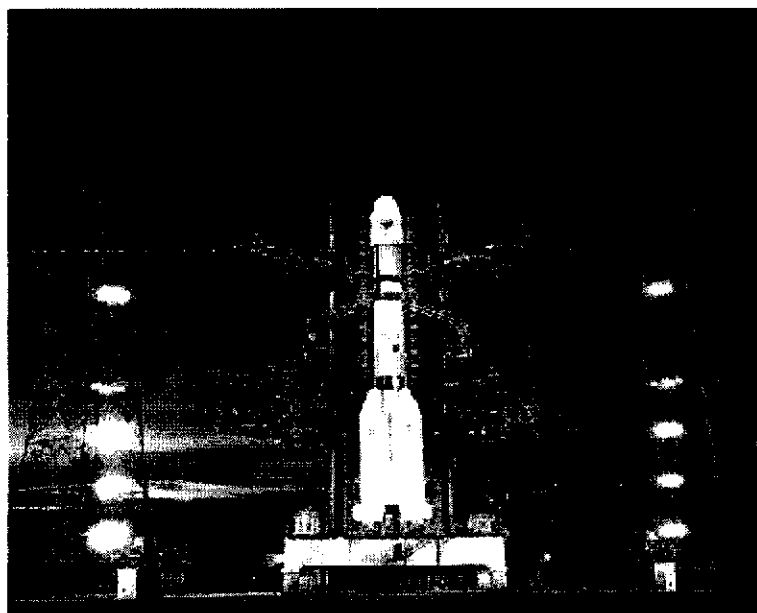
The modern First Launch Pad was built in the early 1990s for the POLAR SATELLITE LAUNCH VEHICLE. It has also been used by Geosynchronous SATELLITE LAUNCH VEHICLE. The twentieth launch from the pad - a PSLV-XL with IRNSS-1A - occurred on 1 July 2013.



The individual stages of PSLV or GSLV, their subsystems and the spacecraft are prepared and checked out in separate facilities before they are sent to launch pad for integration. A 76-meter tall mobile service tower (MST) facilitates the vertical integration of the vehicle. The foldable working platforms of MST provide access to the vehicle at various elevations. A massive launch pedestal, made up of steel plates, acts as the base on which the vehicle is integrated.

The spacecraft is integrated to the vehicle in a clean room, set up inside the MST. However, in the case of GSLV, the spacecraft is interfaced with the payload adapter and then encapsulated in the heat shield in the preparation facility itself. The encapsulated assembly is moved to the launch pad for integrating with the 3rd stage of GSLV. The umbilical tower houses the feed lines for liquid propellants and high-pressure gases, checkout cables, and chilled air duct for supplying cool air to the satellite and equipment bay.

LAUNCH PAD 2:





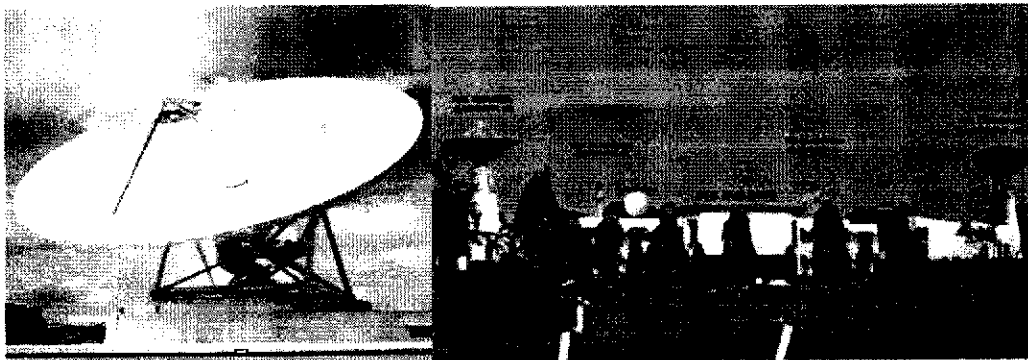
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The Second Launch Pad of the Satish Dhawan Space Centre is a rocket launch site in Sriharikota, India. It is the second of two launch pads at the centre. The Second Launch Pad or SLP was designed, supplied, erected & commissioned by MECON Limited a Govt of Indian Enterprise, located at Ranchi (Jharkhand, India) during the period March, 1999 to December 2003.

As per the integrate, transfer and launch (ITL) concept, based on which the launch pad and the associated facilities are designed, the entire vehicle is assembled and checked-out on a mobile pedestal in the Vehicle Assembly Building (VAB) and then moved in vertical position to the launch pad on a roll track.

Other facilities include, Solid Stage Assembly Building (SSAB) connected to the Vehicle Assembly Building (VAB) by a rail track, Technical Complex-2 (TC2), Spacecraft Preparation Facility, Range Instrumentation facilities comprising tracking, telemetry and tele-command systems.

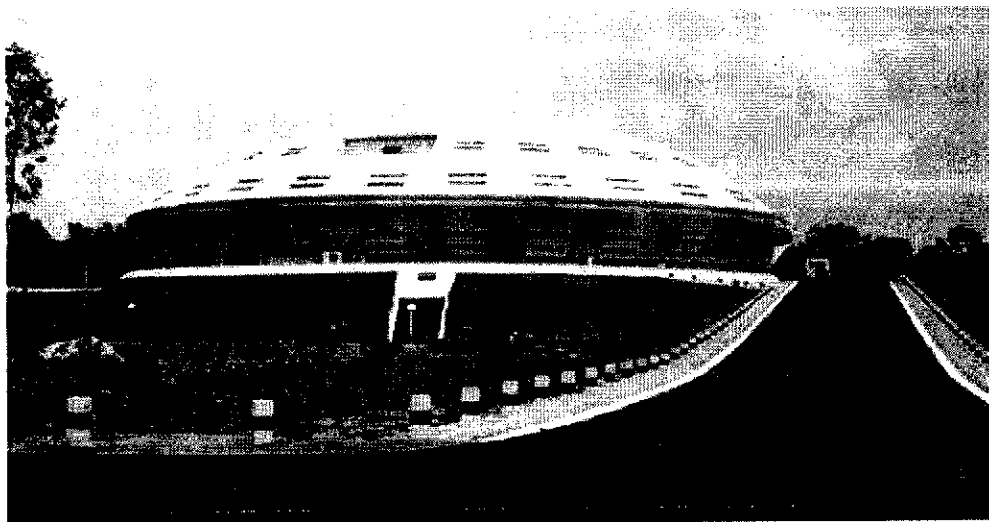
TELEMETRY AND TRACKING CENTER:



ISRO Telemetry, Tracking and Command Network (ISTRAC) provides mission support to low-earth orbit satellites as well as launch vehicle missions. ISTRAC has its headquarters and a multi-mission Spacecraft Control Centre at Bangalore. It has a network of ground stations at Bangalore, Lucknow, Sriharikota, Port Blair and Thiruvananthapuram in India besides stations at Mauritius, Bearslake (Russia), Brunei and Biak (Indonesia).

ISTRAC activities are organised into network operations, network augmentation, mission operation and spacecraft health monitoring, communications and computers and control centre facilities and development projects. Programme planning and reliability groups support ISTRAC activities

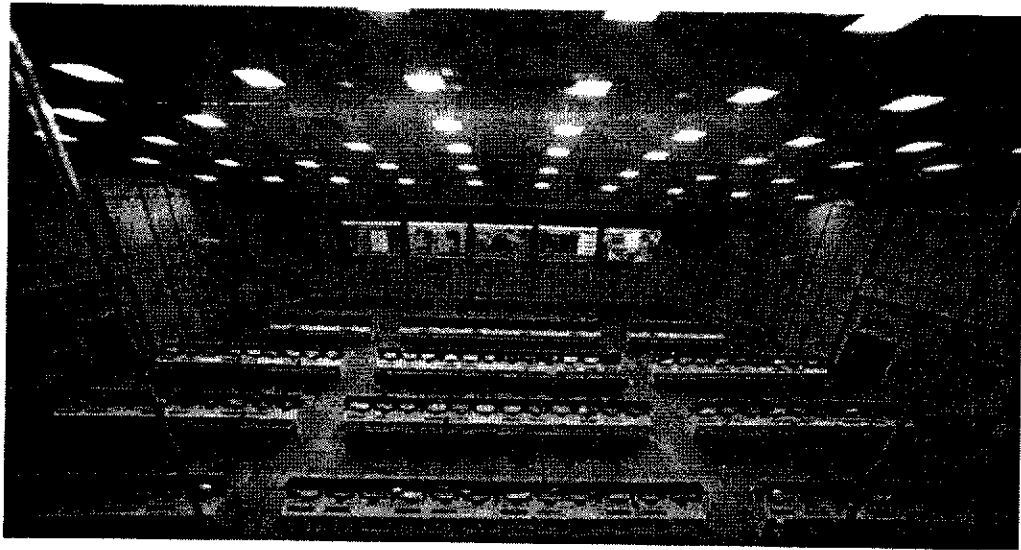
MISSION CONTROL ROOM:



For meeting the GSLV-MkIII launch requirements and future missions of ISRO, a new Mission Control Centre (MCC) with state-of-the-art facilities, has been realised at Satish Dhawan



space center (SDSC) SHAR. The MCC, situated about 6 Km away from the launch complex, monitors and conducts the launch operations during the pre-countdown and countdown phases until the injection of the satellite into orbit. It is linked to all the ground stations through communication links for voice, video and data transmission. The launch preparations on the vehicle are monitored from MCC, using a multi channel Closed circuit room System (CCTV). The important facilities at MCC include Mission Control Hall, Launch Control Centre, Real time Network, VIP Gallery, Video Conference, Mission Executives rooms, Commentator rooms, etc...



major subsystems of the new MCC

- Data Processing Systems
- Real Time Network
- Wide Screen Display Systems,
- executives and all other important personnel involved in decision making sit at respective consoles during countdown phase, till lift-off
- Electronic Interfacing Systems (Timing, Communications, CCTV and Data Links)

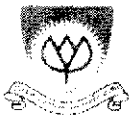
Altogether, there are 38 consoles, arranged in 4 rows. Each console is of 3-bay open type and has the following hardware systems installed in it. It has VIP gallery.

Launch Control Centre:

A Launch Control Centre (LCC) is realised in the ground floor to take care of Vehicle Checkout operations. LCC is configured as two control halls, namely, LCC1 and LCC2, to take care of parallel operations from both the launch pads. Sixteen consoles are provided in each entity to carry out the vehicle checkout operations. Specialists' display consoles have also been set up here to offer vehicle data to experts and specialists from centres related to launch vehicle development.

Features of LCC

- LCC 1 & LCC 2 are identical in hardware configuration and are easily configurable for PSLV, GSLV/GSLV-Mk III launches from any of the two launch pads
- Network Interface
- Data Analysis PC of each console is connected to an independent data network
- Hard-line multiplexing system for reducing hard line requirements between LCC & remote systems
- Display nodes for data presentation to system experts
- All Hardware interfaces are provided with dual redundancy
- System Time of all consoles synchronized



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SPACE MUSEUM:

The museum has full-scale model of PSLV and PSLV heat shield on its premises. The museum also has scaled down (one fifth in size) models of GSLV, GSLV Mk-III and ATV. The display panels on various ISRO projects and their applications, the static / dynamic models of spacecrafts and rockets give good understand of the 'space technology in general and ISRO in particular.

Space Museum provides a tell-tale account of the Indian Space Programme from its infancy. The story of the Indian Space Programme is unfurled in six sections, comprising of history, education, technology, applications, global and the future. A movie theatre with surround sound system screens specially tailored movies on Indian Space Programme.



We are very much thankful to principal and management and Head Of The Department Of ECE, GIST for providing us such a great opportunity.

Thanking you sir,

Yours sincerely,

Mr.M.Mahesh Kumar, Asst.Prof

Mr.P.V.Krishna Rao, Asst.Prof

Smt. D.Naga Jyothi, Asst.Prof



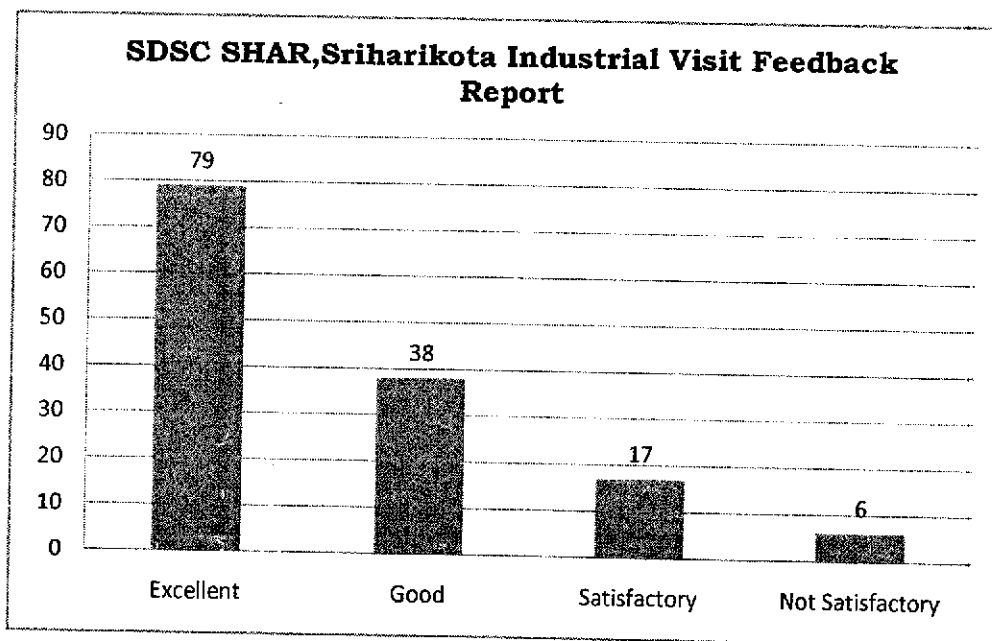
FEEDBACK ANALYSIS REPORT

The student's feedback on Industrial Visit to "Satish Dhawan Space Centre SHAR, Sriharikota" on 03-11-2016 is presented below:

Category: Students Feedback

Total number of Students recorded feedback: 140

Total number of questions attempted: 10



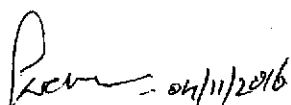
From the above graph it is clear that more than 80% students gave the overall feedback as Good and the students are well satisfied with the Industrial Visit.




Action Taken Report on Feedback Analysis

Feedbacks are collected from the students. The received data are analyzed, the suggestions of the students are discussed in the department and then corrective measures are taken. The student-centered programmes are mostly conducted based on their suggestions and feedbacks.

S.NO	SUGGESTIONS	ACTION TAKEN
1	Need some more hours for practical sessions.	Planned to provide more industrial visits
2	This Industrial visit is very useful and to suggested to conduct from II year	In this regard, planned to Industrial Visit From II-I semester
3	This Industrial visit is very much useful	In this regard, planned to conduct Industrial Visit for the next academic year 2017-18


Faculty In-charge


HoD