INDUSTRIAL VISIT REPORT

DEPARTMENT OF ECE, BGSIT, BG NAGARA

III YEAR BE ECE (ON 12th APRIL 2018)

Visit Conducted to ISRO, Bangalore

The department of ECE organized an industrial visit for one-day visit to ISRO, Bangalore. This visit was organized on 12th April 2018 for 3rd year ECE students. A total of 70 students visited the Centre.The visit was organized with the prior permission and guidance of Principal Dr. B K Narendra and HOD of Electronics and Communication Engineering Department Dr. M B Anandaraju. Faculty members coordinated the visit.

The One-day visit was organized with prior permission from ISRO, Bangalore. The sessions conducted were very educational and gave the students the exposure as to how the industry and the outside market work. The students were benefited with the technical terms and the knowledge of how monitors and controls all the Geostationary / Geosynchronous satellites of ISRO, namely, INSAT, GSAT, Kalpana and IRNSS series of satellites. The company outreach plus opportunities were discussed which motivated the students to progress in their stream.

This educational trip was very informative and gave the students a feel of the R & D work being carried out in the field of embedded system, communication, and VLSI. The purpose of the Industrial Training is to provide exposure for the students on practical engineering fields. Through this exposure, students will have better understanding of engineering practice in general

and sense of frequent and possible problems. This training is part of the learning process and helped in fulfilling the academic requirement as per VTU, to bridge the gap between class room teaching and industry requirements and to get corporate exposure and professional experience.

So, the exposure that uplifts the knowledge and experience of a student needs to be properly documented in the form of a report. Through this report, the experience gain can be delivered to their peers. A properly prepared report can facilitate the presentation of the practical experience in an orderly, precise and interesting manner.

General information

The **Indian Space Research Organisation** (**ISRO)** is the space agency of the Government of India and has its headquarters in the city of Bengaluru. Its vision is to "harness space technology for national development while pursuing space science research & planetary exploration". The Indian National Committee for Space Research (INCOSPAR) was established in the tenure of Jawaharlal Nehru under the Department of Atomic Energy (DAE) in 1962, with the urging of scientist Vikram Sarabhai recognizing the need in space research. INCOSPAR grew and became ISRO in 1969, also under the DAE. In 1972, Government of India had setup a Space Commission and the Department of Space (DOS), bringing ISRO under the DOS. The establishment of ISRO thus institutionalized space research activities in India. It is managed by the DOS, which reports to the prime minister of India.

INDUSTRIAL VISIT REPORT

DEPARTMENT OF ECE, BGSIT, BG NAGARA

III YEAR BE ECE (ON 25th SEPTEMBER 2018)

Visit Conducted to MCF, Hassan

The department of ECE,BGS Institute of Technology, organized an industrial visit for one-day visit to MCF, Hassan. This visit was organized on 25th September 2018 for 3rd year ECE students. A total of 123 students visited the Centre.The visit was organized with the prior permission and guidance of Principal Dr. B K Narendra and HOD of Electronics and Communication Engineering Department Dr. M B Anandaraju.The One-day visit was organized with prior permission from MCF, Hassan.

General information

The Master Control Facility (MCF) is a facility set up by the Indian Space Research Organization (ISRO) in the city of Hassan in the Indian state of Karnataka. Established in 1982, this facility is responsible for monitoring and controlling geostationary and geosynchronous satellites launched by ISRO.

Master Control Facility (MCF) at Hassan in Karnataka and monitors and controls all the Geostationary / Geosynchronous satellites of ISRO, namely, INSAT, GSAT, Kalpana and

IRNSS series of satellites. MCF is responsible for Orbit Raising of satellites, In-orbit payload testing, and On-orbit operations all through the life of these satellites. MCF activities include round-the-clock Tracking, Telemetry & Commanding (TT&C) operations, and special operations like Eclipse management, Station-keeping manoeuvres and recovery actions in case of contingencies. MCF interacts with User Agencies for effective utilisation of the satellite payloads and to minimise the service disturbances during special operations.

When ISRO wanted a control facility, it inspected various sites that were offered to it within India. ISRO chose Hassan as the location (Location on Google Maps) because it was free of noise and encountered less terrestrial transmission than other proposed sites. Low interference was a must since the facility should be able to pick up even very weak signals from the satellite. The land to set up this facility was spread across 17.2 hectares and offered by the Government of Karnataka.

INDUSTRIAL VISIT REPORT

DEPARTMENT OF ECE, BGSIT, BG NAGARA

III YEAR BE ECE (ON 22nd NOVEMBER 2018)

The department of ECE,BGS Institute of Technology, organized an industrial visit for one-day visit to VTU Regional Centre Muddenahalli, Chikkaballapur. This visit was organized on 22ndNovember 2018 for 3rd year ECE students. A total of 134 students visited the Centre.The visit was organized with the prior permission and guidance of Principal Dr. B K Narendra and HOD of Electronics and Communication Engineering Department Dr. M B Anandaraju.

International Symposium on Nanomaterials – 2018 (NANO-MAT-2018)", was organized by Department of Nanotechnology,Centre for Post Graduation Studies, Bangalore region at VTU Regional Centre Muddenahalli, Chikkaballapur.

General information

About the Symposium (NANO-MAT 2018) Nanotechnology is one of the new and fastest growing areas in Science and Engineering. The subject arise from electronics, physics, chemistry and material science to create new functional system of Nanoscale dimensions. It has been cast as the answer to many of world's major environment and health issues. The applications of nanotechnology are extremely important and unending, particularly its role in electronics, chemical engineering, automobile sector, space, healthcare, defense, telecommunication, information technology, energy sector etc. Currently the advantage of nanotechnology overweigh the potential risks. The aim of this conference is to review the current state of knowledge in the field of Nanoscience and technology along with the ir novel applications and challenges. Speakers from India and abroad will present the advances of Nanomaterials in Space, Automobile, Health, Energy and Environmental Applications.

INDUSTRIAL VISIT REPORT

DEPARTMENT OF ECE, BGSIT, BG NAGARA

III YEAR BE ECE (ON 25th OCTOBER 2018)

The department of ECE organized an industrial visit for one-day visit to UR Rao Satellite centre Bangalore, This visit was organized on 26th October 2018 for 3rd year ECE students. A total of 140 students visited the Centre.The visit was organized with the prior permission and guidance of Principal Dr. B K Narendra and HOD of Electronics and Communication Engineering Department Dr. M B Anandaraju.

The One-day visit was organized with prior permission from Rao Satellite centre Bangalore. The sessions conducted were very educational and gave the students the exposure as to how the industry and the outside market work. The students were benefited with the technical terms and the knowledge of how monitors and controls all the Geostationary / Geosynchronous satellites of ISRO, namely, INSAT, GSAT, Kalpana and IRNSS series of satellites. The company outreach plus opportunities were discussed which motivated the students to progress in their stream.

This educational trip was very informative and gave the students a feel of the R & D work being carried out in the field of embedded system, communication, and VLSI. Faculty members coordinated the visit. The students enjoyed the trip immensely.

The purpose of the Industrial Training is to provide exposure for the students on practical engineering fields. Through this exposure, students will have better understanding of engineering practice in general and sense of frequent and possible problems. This training is part of the learning process and helped in fulfilling the academic requirement as per VTU, to bridge the gap between class room teaching and industry requirements and to get corporate exposure and professional experience.

So, the exposure that uplifts the knowledge and experience of a student needs to be properly documented in the form of a report. Through this report, the experience gain can be delivered to their peers. A properly prepared report can facilitate the presentation of the practical experience in an orderly, precise and interesting manner.

General information

ISRO Satellite Centre (ISAC) is the lead center of the Indian Space Research Organization (ISRO) responsible for design, development, assembly & integration of communication, navigation, remote sensing, scientific and small satellite missions.

U R Rao Satellite Centre (URSC), Bengaluru, formerly known as ISRO Satellite Centre (ISAC) is the lead centre for building satellites and developing associated satellite technologies. These spacecraft are used for providing applications to various users in the area of Communication, Navigation, Meteorology, Remote Sensing, Space Science and interplanetary explorations. The Centre is also pursuing advanced technologies for future missions. URSC is housed with the state-of-the-art facilities for building satellites on end-to-end basis

INDUSTRIAL VISIT REPORT

DEPARTMENT OF ECE, BGSIT, BG NAGARA

III YEAR BE ECE (ON 28th SEPTEMBER 2018)

The department of ECE organized an industrial visit for one-day visit to Electronic India Exhibition,BIEC, Bangalore. This visit was organized on 28th September 2018 for 2nd year ECE students. A total of 133 students visited the Centre.The visit was organized with the prior permission and guidance of Principal Dr. B K Narendra and HOD of Electronics and Communication Engineering Department Dr. M B Anandaraju. Faculty members coordinated the visit.

The One-day visit was organized with prior permission fromMr. Mahesh, Organizer, Electronica India, BIEC, Bengaluru.The Department of Electronics and Communication Engineering faculties and students visited “Electronica India” Exhibition at BIEC, Bengaluru as a part of visit to exhibition centre. This visit helps in the overall development of the faculty and students, because this is a place where allelectronic companies will participate from all over the world.

INDUSTRIAL VISIT REPORT

DEPARTMENT OF ECE, BGSIT, BG NAGARA

III YEAR BE ECE (ON 13th NOVEMBER 2019)

Visit Conducted to Nuetech Solar System, Sunkadakatte, Bangalore

Industrial visit organized to Solar Nuetech Solution, Sukungatte on 13/11/2019 for the under graduate students by the department of Electronics and Communication Engineering, BGS Institute of Technology. The faculty coordinators Dr. Naveen B and Prof. Nandini S accompanied a batch of 123 students.

The visit was organized with the prior permission and continuous guidance of Principal Dr. B K Narendra and HOD of Electronics and Communication Engineering Department Dr. M B Anandaraju.

Nuetech Solar System is an innovative Solar Thermal Energy Company, focused on providing energy solutions by using Concentrated Technology. Since it has been a technologically solution focused company driven by strong passion for environmental and social contribution combined with high creativity and integrity. Nuetech runs with a vision of “Greater quality of individual life enhanced organizational efficiency and safer world thanks to improved harnessing of solar energy” this is all about company.

Students learn about working of solar heater and how the solar heater gets manufacture. We came to know how cold water and hot water is exchanged and controlled.