

BGS Institute of Technology
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
2018-2019

AUGUST 28th 2018

Technical Talk on Satellite communication and Interplanetary Mission



Mrs. Roopa M V Scientist/Engineer ISRO/ISTRAC, Mr. Venkatesh G Prof and HOD Dept. of ECE, Brindavan college of Engineering, Bangalore, Bangalore gave technical Talk on Satellite communication and Interplanetary Mission dated on 28/08/2018

Satellite communication, in telecommunications, the use of artificial satellites to provide communication links between various points on Earth. Approximately 2,000 artificial satellites orbiting Earth relay analog and digital signals carrying voice, video, and data to and from one or many locations worldwide. Interplanetary spaceflight or interplanetary travel is the crewed or uncrewed travel between stars and planets, usually within a single planetary system. In practice, spaceflights of this type are confined to travel between the planets of the Solar System. Uncrewed space probes have flown to all the observed planets in the

Solar System as well as to dwarf planets Pluto and Ceres, and several asteroids. Orbiters and landers return more information than fly-by missions. Crewed flights have landed on the Moon and have been planned, from time to time, for Mars and Venus. While many scientists appreciate the knowledge value that uncrewed flights provide, the value of crewed missions is more controversial. Science fiction writers propose a number of benefits, including the mining of asteroids, access to solar power, and room for colonization in the event of an Earth catastrophe



Inauguration of technical Talk on Satellite communication and Interplanetary Mission dated on 28/08/2018

25th September 2018

Industrial visit to MCF



The Department of ECE, BGS Institute of Technology, organized an industrial visit for one-day visit 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 Ananda Raju. The One-day visit was organized with prior permission from MCF, Hassan

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 man oeuvres and recovery actions in case of contingencies. MCF interacts with User Agencies for effective utilization of the satellite payloads and to minimize 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

10th October 2018

A Technical Talk on Insight of into Emerging Technology and Space Research



A Technical Talk on Insight of into Emerging Technology and Space Research by Mr. Bachu Yusobu, Scientist/Engineer Master Control Facility (MCF), ISRO, Hassan

Since the turn of the century, technological innovation and reduced launch costs have lowered many conventional barriers of entry to space, giving way to a more diversified space-faring community. From commercial companies and civil space organizations to military space programs and partnerships between all three, more nations are benefitting from the use of outer space than ever before. In the past six years alone, sixteen nations established national civil space agencies for the first time. While there are benefits to establishing a new space agency in this more expansive new space age, developing space nations face new and unique challenges associated with a more congested, competitive, and contested space environment.

To provide an insight into the research field get well versed with technologies available Department of Electronics and Communication Engineering had organized a technical talk on an insight into emerging technology and space research on 10/10/2018. The resource person for the technical talk Mr. Bachu Yesobu stressed on the importance and current technologies in the field.

15th December to 19th December 2018

Machine Learning Crash course for engineering faculties





Machine Learning Crash course for engineering faculties and Students by Professor Shreyas. Facilitator MLCC Google, HOD, ECE,GEC, Karwar H.M, Google MLCC study Jam-ACU

Google released its Machine Learning Crash Course (MLCC). Originally designed to help equip Google staffs with practical artificial intelligence and machine learning fundamentals,

19th March 2019

Motivational Talk on “Art of Decision Making” Live Streaming



ACU-BGS Institute of Technology, BG Nagara. Motivational Leadership Talk on Art of Decision Making by Smt. Ajit Doval, NS Advisor Live Streaming 19th Mar 2019@ BGSIT

When we think of what makes someone a great leader, one characteristic that comes to mind is decisiveness. We do not predict successful leaders standing around appearing unclear and uncertain. Instead, we view them as people who are able to quickly arrive at their decisions and

communicate the goals to others. Leaders often have to make challenging decisions, such as what direction to move their company in; whether to keep an employee, reposition them or let them go; whether or not to share “bad news” with stockholders, and many other such challenges. BGS Institute of Technology, BG Nagara as created this Opportunity to students to attend Motivational Leadership Talk on Art of Decision Making by Sri. Ajit Doval

23rd April 2019
Blood donation Camp



**Blood donation Camp was organized on 5/4/2019 in BGSIT campus by Dr .S
Chandrashekar Shetty, Vice Chancellor**

While about 38% of the population qualifies to give blood, according to Red Cross less than 10% are actually donating. Numbers are even lower in the rest of the world, with some countries relying mostly on blood from people that ask money for their gesture. Because of the constant need for blood and the fact that supply can be at alarming low levels more often then not, blood collecting organizations are trying to reach as many possible donors they can.

14th March 2019

**Programme on Self Employment and Industrial Finance on 14/03/2019
by Mr. Rahul Nair, Financial Advisor Motilal Financial Services, Bengaluru**



Mr. Rahul Nair, Financial Advisor, Motilal Financial Services, Bangalore

Self-employed persons may be involved in a variety of occupations but generally are highly skilled at a particular kind of work. Writers, trades people, freelancers, traders/investors, lawyers, salespeople, and insurance agents all may be self-employed persons. There is a huge need for entrepreneurs in our country due to unemployment. It is important that students identify the employment opportunities and different finance ways available to them.

Department of Electronics and Communication Engineering had organized a technical talk on self-employment and industrial finance on 14/03/2019. The resource person, Mr. Rahul Nair spoke on the importance of self-employment, opportunities available and facilities provided for self-finance.

29th April 2019

A Technical Talk on Transducer Smart Sensor and their Application



A Technical Talk on Transducer Smart Sensor and their Application was given by Dr. G N Keshava Murthy Asst Prof Department of ECE SIT

It's a sensor-driven era. Smart sensors do enhance the capacity to observe and report on the world around us. They perform in almost all sectors to make human life easy and much better. Adjusting lights to the tune of moods, turning on devices including water heaters, ensuring security, tracking devices, and many more are just a few to name so. On a bigger scale, sensors enable greater visibility into business processes and workflows, identify employee work patterns, and determine environmental conditions of facilities. Thus, sensors also allow enterprise management to monitor, control, and improve operational efficiency.

Alongside, with IoT technology penetrating every aspect of life than ever before, the use of accurate sensors is exponentially growing. The internet of things cannot exist without smart sensors and constitute the vital components of IoT systems. Hence Department of Electronics and Communication Engineering had organised a technical talk on transducer smart sensor and their application on 29/04/2019. Dr.G N Keshava Murthy, the resource person for the technical talk spoke on the different applications of smart sensors, functions and applications.

5th June 2019

Awareness Talk on Global Warming



Dr. T Mahadevaiah giving technical talk on Global warming

Education is an essential element of the global response to climate change. It helps people understand and address the impact of global warming, increases “climate literacy” among young people, encourages changes in their attitudes and behaviour, and helps them adapt to climate change related trends. Education and awareness-raising enable informed decision-making, play an essential role in increasing adaptation and mitigation capacities of communities, and empower women and men to adopt sustainable lifestyles.

In order to bring awareness about the changing climate conditions an awareness talk on global warming was organized by Electronics and Communication Engineering Department on 5/6/2019. Dr. T Mahadevaiah as a resource person for stressed on the importance of keeping the climate conditions under balance and also mentioned on the adverse effects otherwise.

8th May 2019

JANUS TRAINING PROGRAM

Mr. Anantharaman Zestec, Bangalore gave a Janus training program for Pre Final year students



BGSIT, BG Nagara, Zestech has Organized JANUS Training Program by Anantharaman for 6th semester Students@ BGSIT Seminar Hall on 8th MAY 2019