



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT
(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi))
Opp to Art of Leaving, Udayapur, Kanakapura Road. Blore
Accredited by NAAC with Grade A+



Department of Electronics and Communication Engineering
Accredited by NBA, New Delhi

Event Name	INDUSTRIAL VISIT TO U. R. Rao Satellite, ISRO , Bengaluru and HAL Exhibition
Theme	To explore the knowledge of satellite communication systems and Process in ISRO and Aircraft developed by HAL
Date	06-07-2022
Venue	U. R. Rao Satellite, ISRO, Bengaluru

Objectives of the Industrial Visit:

The objective of the visit was to provide a Technical Exposure to the students about Space Technology and advancements in Technology. provided a good insight into the quality of research happening in the area of space technology but also gave great exposure to the students about the future career prospects and areas of research in applied sciences.

Coordinators:

1. Dr. Mallikarjun P Y,
2. Dr. Roopa R. Kulkarni

Photos:





Purpose: To get insight about satellite communication systems and process.

About the visit:

The department of Electronics and Communication Engineering, DSATM organized one day industrial visit to U. R. Rao Satellite, ISRO, Bengaluru for the students of 4th semester (B) along with three faculty on Wednesday, the 6th July 2022 to explore the knowledge of satellite communication systems and processes in ISRO.

ISRO is responsible for design, development, assembly & integration of communication, remote sensing, scientific and small satellite missions. We had an opportunity to visit the clean room where design, assembling and packaging was done. We also visited the thermovac room wherein thermal, sound and vibration testing is performed. Students also gained knowledge about how television signals are broadcasted with the help of satellites. A working model was demonstrated.

The Scientists gave detailed explanations about the existence, progress and objectives of ISRO. Students had insight into:

- Operational flights of Polar Satellite Launch Vehicle (PSLV),
- Developmental flight of Geo-synchronous Satellite Launch Vehicle (GSLV),
- Development of heavy lift Geo-synchronous Satellite Launch Vehicle
- Design, Development and Realization of Communication Satellites.
- Design, Development and Realization of Earth Observation Satellites.
- Development of Navigation Satellite Systems.
- Development of satellites for Space Science and Planetary Exploration.
- Earth Observation Applications.
- Space based systems for Societal Applications.
- Advanced Technologies and newer initiatives.
- Training, Capacity building and Education.
- Promotion of Space technology.

- Infrastructure / Facility Development for space research.
- International Cooperation.

Through video presentation, models and charts displays and discussion with the Mr. Srinivas and Mrs Suma.

We also visited HAL, Bengaluru where in the students visited the Aircraft exhibition designed and developed by HAL for various applications and uses.

Resource person: Mr. Srinivas

Scientist, U. R. Rao Satellite, ISRO
Bengaluru

Addressing the GAP:

Students study the fundamental subjects such as Analog electronics, Microcontrollers and Digital System Design in their lower semester. Later, in the higher semesters the courses related to digital/analog communication and satellite communication are learnt. The real time applications or the use cases of design and development are not covered to a larger extend. There is a need for the students to explore the application of the courses studied to industries and applied sciences.

Preferably Measurable outcomes:

- Students have been benefited from the technical information about the application of electronic circuits and components.in design of Space science.
- Get an idea to focus more on electronics design and their implementation.

Impact of the feedback:

1. Importance of electronics and communication engineering in the real time applications.
2. Motivated by the scientists to carry out their course to suit for the industry.



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Event Name	Foundational Smart Projects Based On tru-Iot
Theme	To gain knowledge on IoT programming for realtime applications
Date	29 th and 30 th June 2022, day 3 was project demonstration
Venue	Department of ECE, DSATM, Bengaluru

Objectives of the Industrial Visit:

The aim of this workshop is to

- Understand the rudiments of IoT
- Learn the features of Arduino, Raspberry Pi board and NodeMCU
- Configure Wireless Protocols
- Interface different sensors with Raspberry Pi
- Connect Raspberry Pi to a remote access client
- Configure Raspberry Pi for Web Services

Coordinators:

1. **Dr. Roopa R. Kulkarni**

Photos:



Purpose: To explore the state-of- art technologies in the area of Internet of Things (IoT) provide some hands on experiences in setting up IoT platform with open source softwares and project implementation using the IoT technology.

About the workshop:

Day1 :

- Introduction to IoT and its Architecture
- Introduction to Arduino, Arduino Code and LED Blink
- Introduction to NodeMCU- sensor Integration
- Mobile Application Integration to control/monitor Node
- Weather Station Project

Day2:

- Introduction to Raspberry Pi, Real power of Raspberry Pi and CLI
- True power of IoT with Node-RED
- Running Web Server/Application in Raspi - Sensor Log
- Smart home Automation Setup
- Introduction to Data Science and Analytics.

Day 3: Project Implementation

Resource person: **Mr. Vikas Gowda D V**
Entuple Technologies
IoT Application Engineer
Product development

Addressing the GAP:

Students study the fundamental subjects such as Microcontrollers and Embedded Systems in curriculum. IoT is the technology that requires the fundamentals studied as course. These courses are theoretical with few lab programs. There is a need for the students to apply these concepts for realtime IoT application as well as explore advanced concepts that are used in industries.

Preferably Measurable outcomes:

- Students will be trained on Embedded C, implementation of I/O peripherals.
- Implement examples on Aurdino, Raspberry pi, and nodeMCU
- Develop and design a realtime application as project

Impact of the feedback:

- Effective correlation between the theory learnt to the lab sessions
- Implement small examples during the workshop enhanced their fundamentals of IoT which helped them implement a project.



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Event Name	Technical Event Electroblast-2022
Theme	Technical
Date & Time	28/05/2022 & 10.00 to 05.00PM
Venue	ECE Department Laboratory

Overview of IETE Technical Event Electroblast-2022

An event for ECE students filled with enthusiasm and spirit to put in their thinking and utilize their knowledge in the technical, an event was conducted on a Saturday 28/05/2022 from 9:30AM to 5:00PM, with more than 100 participants. It was carried out offline and the participants who have won in the events are awarded with memento and certificate. All the events were coordinated by IETE Coordinator Dr.Siddalingappagouda Biradar and Prof. Rehman.

The ELECTROBLAST – 2022 was an event which was a continuation of ELECTROBLAST – 2014, Conducted by the Department of Electronics and Communication Engg., IETE Student branch has organized and conducted eight technical events such as like E-Quiz CODE-A-BLAST, TECH POINT, DRAMA-BLAST, ENTREPRENOW, TECH HUNT, GAMING and SPOT CKT DESIGN. This event is conducted under the association of IETE, i.e., Institution of Electronics and Telecommunication Engineers (IETE) Which is a India's leading recognized professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT Founded in 1953. The IETE is the National Apex Professional body of Electronics and Telecommunication, Computer and IT Professionals. It serves more than 1, 25,000 members through various 65 Centres, spread all over India and abroad. The Institution provides leadership in Scientific and Technical areas of direct importance to the national development and economy. Government of India has recognized IETE as a Scientific and Industrial Research Organization (ISRO) and also notified as an educational Institution of national eminence. The objectives of IETE focus on advancing electro-technology. The IETE conducts and sponsors technical meetings, conferences, symposia and exhibitions all over India, publishes technical journals and provides continuing education as well as career advancement opportunities to its members.

Objectives of Events

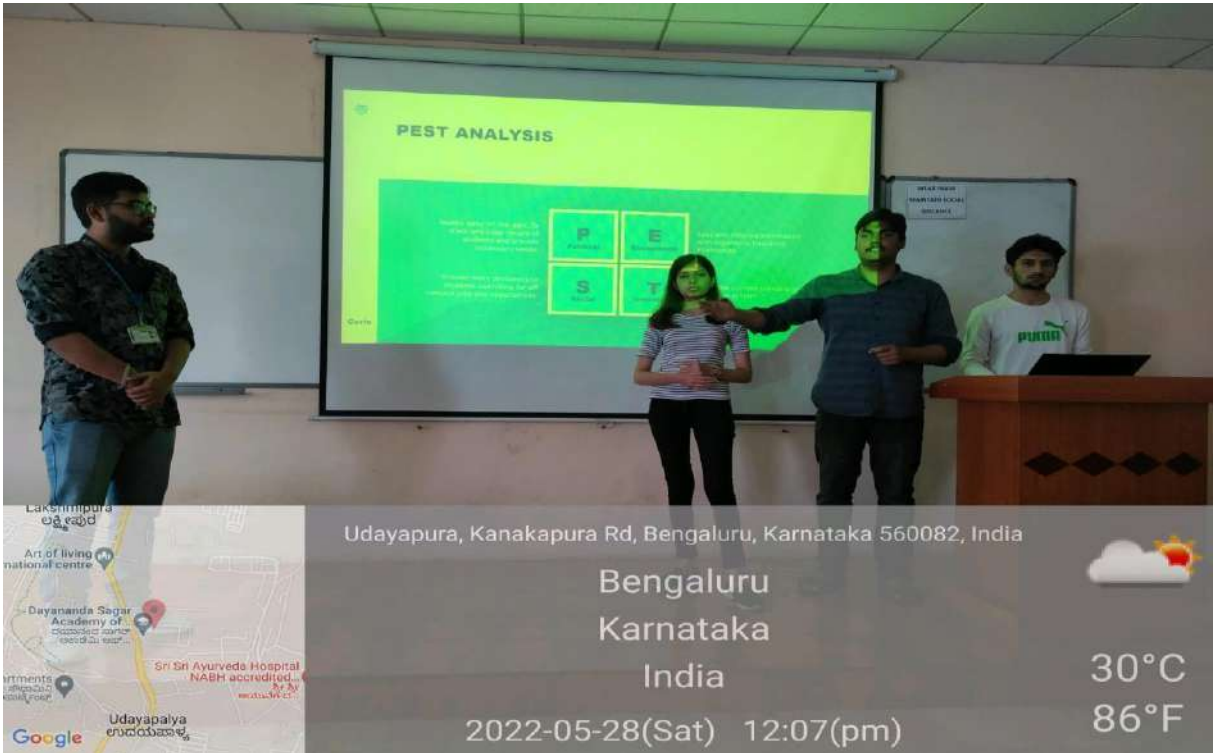
- To enhance the Technical Skills
- To present their creative technical ideas
- To inculcate team work among students

Co-ordinaators

Dr.Siddalingappagouda Biradar

Prof. Rehman

Photos





Purpose: The IETE Students Forum has the following broad objectives:

- To plan and organize technical programs and activities such as Expert lectures, workshops, seminars for the benefit of student members on a regular basis.
- To provide a common platform for the student members to exchange ideas and information on the topics of their interest e.g. Project Design, employment / higher educational opportunities, emerging trends, personality development etc;
- To facilitate technical visits / practical training / project work of the enrolled students in R&D laboratories, industries, academic institutions etc;
- To serve as a nodal point at the institution on all aspects of professional development of the student members.

Outcome of Technical Event: Students can able to participate technical events to present recent advancements in Electronics and Communication Engineering and able to manage a complete event.

Students Opinion about the event: After interacting closely with a few students I noticed that they enjoyed the competitions to its fullest. A few said it was just like taking a break from the academics, they also said they would wait for this event every year.