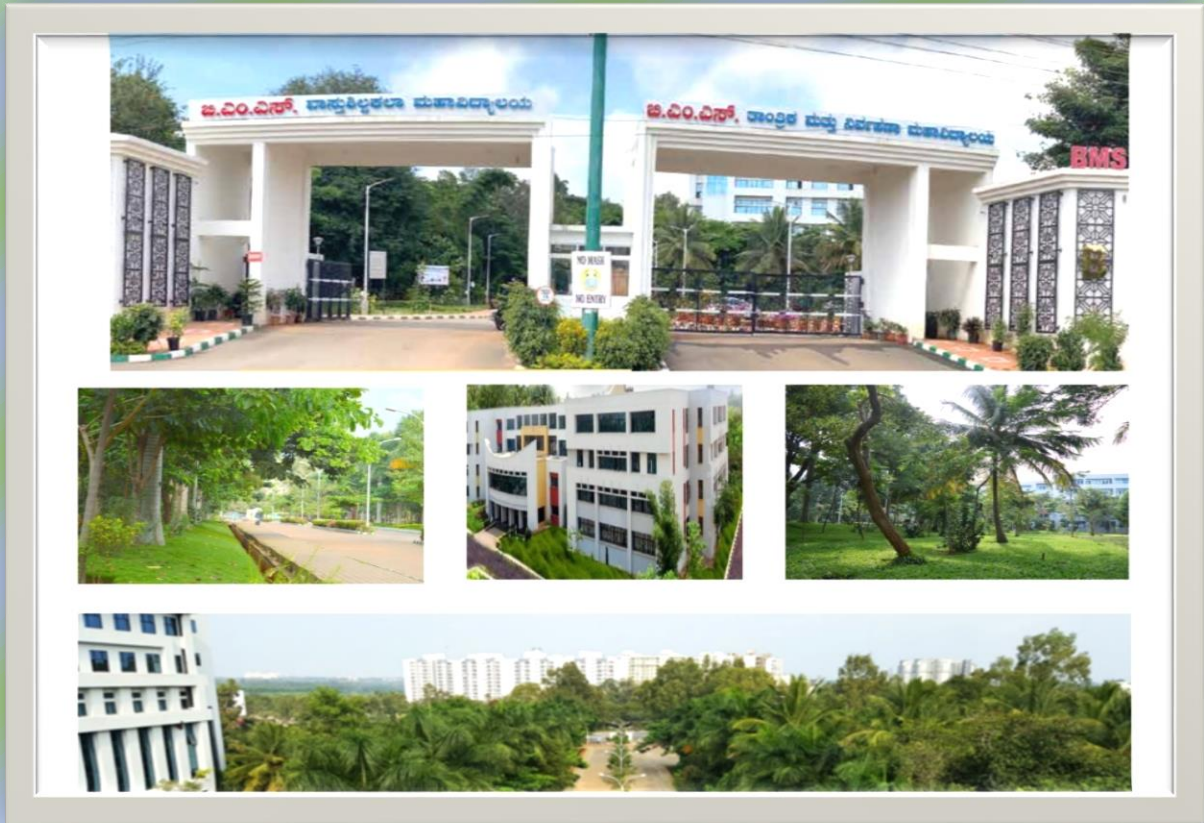




BMS Institute of Technology and Management

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING



**INDUSTRY
INSTITUTE
INTERACTION**

Vision of the Department

Emerge as a premier department developing high quality Electronics Telecommunication Engineering professionals with ethics and eco friendliness for betterment of the society.

Mission of the Department

Impart quality education in Electronics Telecommunication Engineering by facilitating:

- Conducive learning environment and research activities.
- Good communication skills, leadership qualities and ethics.
- Strong Industry-Institute interaction.

About the Department

Electronics and Telecommunication is an Engineering discipline that brings together various fields of engineering to enhance Electronics and Telecommunication systems. It focuses on academic excellence, research development and consultancy in multidisciplinary fields.

NEED FOR INDUSTRY INSTITUTE

INTERACTION

An ongoing interaction between the Industry and Institute is essential. This will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to students and subsequent placement of young graduating engineers in industries across the country. With the advent of globalization and opening of Indian economy to outside world, competition among industries have become stiff. To solve their engineering problems, they look up now to engineering institutions. Similarly, there is an urgent need to prepare engineering students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies. These objectives can only be achieved well by bridging the gap between industry and the academic institute.

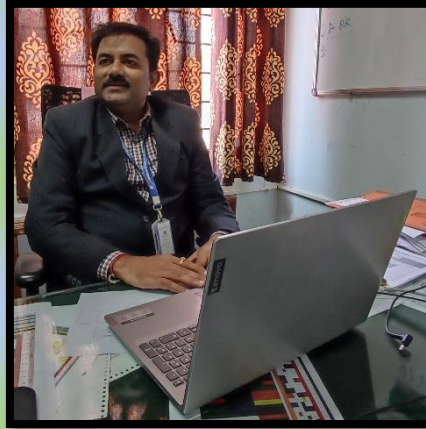
It is a mutual benefit activity and helps in the growth of industries as well as institutions too. It is very much required to give industrial exposure to students, thus enabling them to tune their knowledge to cope with the industrial culture. Workshops organised by the industry on a regular basis on trending technologies by experts in the field will help the students to be aware of the latest happenings in the industrial world.

Other schemes such as R&D Laboratories sponsored by industries can be established at the Institute level. This will motivate the students to take up R&D. Industry institute interaction should also encourage engineers from industries to visit institution to deliver lectures so that the students can understand the industry culture in a better way.

There is a lot of need for industry institute interaction as it can provide internship for pre-final year students to confront real-life challenges and learn the state of art technology and process to add to their core competency. Industry institute interaction can also take up consultancy work in diagnosis and solving them using the expertise of the faculty and students.

The industry institute interaction can also help in reducing the gap between industry expectations (practice) and academic offerings (theory) by direct involvement of industry to attain a symbiosis.

Message from Head of the Department



As a Head of Electronics and Telecommunication Engineering (ETE) dept. I feel extremely happy to note that my dept has come out with a Compendium of Industry Institute Interaction(I-I-I):

I am a strong believer of the fact that the collaboration between industry and academic institutes will surely promote innovation and growth in technology. Partnership with industry is need of the day to progress in research and creating skilled workforce for the nation.

It gives me immense pleasure in sharing the information that ETE dept. of BMSIT&M is making all its efforts to expand and collaborate with core industries to enhance core competency among students and build technical skills required for cutting edge technology jobs.

I Sincerely appreciate the efforts of my faculty and technical staff for bringing out this compendium of Industry Institute Interaction(I-I-I), capturing and publishing all important interactions with experts from industries, including industry visits and skill-based training sessions etc.

I congratulate all TEA -club and dept. activity coordinators, special appreciation to Dr. Sumathi M S for the detailed review work for its completeness, Mrs Geetha N and Mrs. Myna S for their contributions.

Thanks &

With warm regards

Dr. Raju Hajare,

HoD-ETE, BMSIT&M

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Academic Year

2021-2022

Industry Expert Talk

Resource Person: Nikhil Rao, System Architect, Rambus India private limited

Date: 21.05.2022

Semester: VI and VIII

Summary: Motivational talk on present job opportunities and trends in industries was delivered for the final and pre final year students. He also stressed on the current and future trends in the field of Telecommunication and its importance in our day-to-day life.



Proficiency Course

Resource Person: Mr. Padmanaban Kalyanaraman
Intel University Alliance Program Coordinator Bangalore

Date: 21.04.2022 to 07.05.2022 (With break 6 days)

Semester: VI

Summary: Students were trained on Quartus Tool flow, students got exposure on timing analysis.



HACKATHON – DREAMS HACK

Date: 20.05.2022

PARTICIPATED TEAMS: 61

Summary: INNOVATIVE PLATFORM: Flagship Event to recognise, handhold, nurture, innovative ideas of young minds, to take it to prototype and product level.

The screenshot shows a Cisco Webex meeting interface. At the top, there are menu options: File, Edit, Share, View, Audio & Video, Participant, Meeting, Breakout Sessions, and Help. The time is 55:13. Below the menu is a row of video thumbnails for participants: Vandana, Mithilesh J. (Co-host), and several others. The main content area displays a presentation slide with the logo of the Institute of Technology & Management, Bengaluru, and the text "WELCOME TO DREAMS-HACK 2022". The slide has a decorative background with yellow flowers. At the bottom of the meeting window, there are controls for Unmute, Stop video, Share, and other functions. The Windows taskbar is visible at the very bottom, showing the search bar, system tray, and date/time (09:18, 16-05-2022).

The screenshot shows a Cisco Webex meeting interface. At the top, there are menu options: File, Edit, Share, View, Audio & Video, Participant, Meeting, Breakout Sessions, and Help. The time is 01:23:36. Below the menu is a row of video thumbnails for participants: naureen khan, Rajath M, BALAJI SINGH, BALAJI SINGH, and Bhavana T. The main content area displays a presentation slide titled "INTRODUCTION" with a background image of a satellite. The slide contains the following text:
INTRODUCTION

- A small satellite, miniaturized satellite, or small sat is a satellite of low mass and size, usually under 500 kg (1,100 lb). While all such satellites can be referred to as "small", different classifications are used to categorize them based on mass. Satellites can be built small to reduce the large economic cost of launch vehicles and the costs associated with construction. Miniature satellites, especially in large numbers, may be more useful than fewer, larger ones for some purposes – for example, gathering of scientific data and radio relay. Technical challenges in the construction of small satellites may include the lack of sufficient power storage or of room for a propulsion system.
- One rationale for miniaturizing satellites is to reduce the cost; heavier satellites require larger rockets with greater thrust that also have greater cost to finance. In contrast, smaller and lighter satellites require smaller and cheaper launch vehicles and can sometimes be launched in multiples. They can also be launched 'piggyback', using excess capacity on larger launch vehicles. Miniaturized satellites allow for cheaper designs and ease of mass production.
- Another major reason for developing small satellites is the opportunity to enable missions that a larger satellite could not accomplish, such as: Constellations for low data rate communications, Using formations to gather data from multiple points, In-orbit inspection of larger satellites, University-related research, Testing or qualifying new hardware before using it on a more expensive spacecraft.

At the bottom of the meeting window, there are controls for Unmute, Start video, Share, and other functions. The Windows taskbar is visible at the very bottom, showing the search bar, system tray, and date/time (09:46, 16-05-2022).

Memorandum Of Understanding

AGREEMENT OF CULTURAL AND SCIENTIFIC COOPERATION BETWEEN
BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT BENGALURU, INDIA.
AND
UNIVERSITY OF SANNIO BENEVENTO, ITALY

Università degli Studi del Sannio

Il Rettore prof. Gerardo Canfora

Data _26/03/2021_____



Prof. Biagio Simonetti
Erasmus+ Rector's delegate

Timbro _____

BMS INSTITUTE OF TECHNOLOGY AND
MANAGEMENT BENGALURU, INDIA

Dr. Mohan Babu.G.N Principal, BMSIT&M

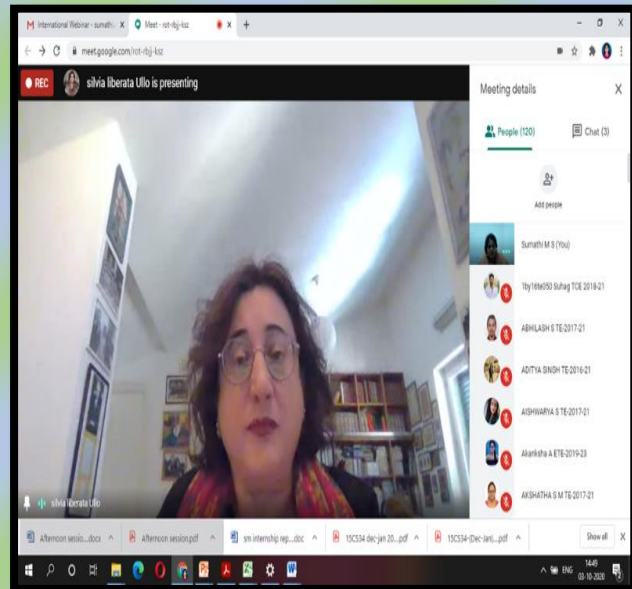
Date 12/02/2022_____

MOHANBABU
GUBBI
NARASIMHA
GOWDA

Digitally signed by
MOHANBABU GUBBI
NARASIMHAGOWDA
Date: 2022.02.12
10:59:32 +05'30'

Seal _____

MoU's signed with **BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT BENGALURU, INDIA. & LA UNIVERSITA' DEGLI STUDI DEL SANNIO** coordinated by Dr. Raju Hajare Head –Department of Electronics and Telecommunication Engineering, Dr. Banuprakash R Assistant Professor Department of Electronics and Telecommunication Engineering & Dr Silvia Liberata Ullo, Department of Telecommunication, Università degli Studi del Sannio di Benevento- Piazza, Guerrazzi, Italy. The above was signed on 12.02.2022.



CENTRE OF EXCELLENCE IN COLLOBRATION WITH INTEL

Formal inauguration of the latest Intel free FGPA Boards received from Intel, USA on 22.12.2021 for Proposed Centre of Excellence (in collaboration with Intel), at ETE department.

The following are the hardware and software received free of cost from Intel, USA.





Hardware

- | | | |
|----|----------------------|--------------|
| 1. | Intel FPGA DE10-Lite | Quantity: 10 |
| 2. | Intel FPGA DE1-SoC | Quantity: 05 |

Software

- | | | |
|----|--|--------------|
| 1. | Intel® Quartus® Prime Standard Edition Software; | Quantity: 15 |
| 2. | DSP Builder for Intel® FPGAs; | Quantity: 15 |
| 3. | Video FPGA IP Bundle; | Quantity: 15 |
| 4. | Protocol IP Bundle; | Quantity: 15 |
| 5. | DSP Embedded FPGA IP Bundle; | Quantity: 15 |
| 6. | Intel® Quartus® Prime Pro Edition Software; | Quantity: 15 |

Hardware and Software approximately worth Rs.35,74,305/- (Rupees thirty five lakhs seventy five thousand three hundred and five only) received free of cost from M/s Intel USA for Academia pupose for ETE Department, BMSIT&M.

Skill Based Development

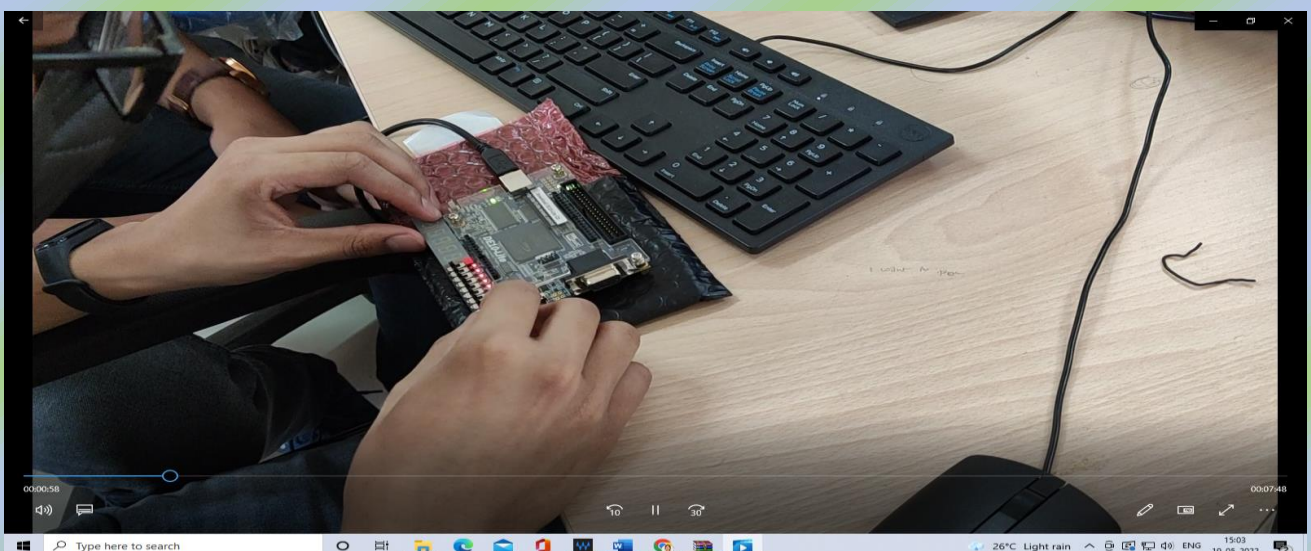
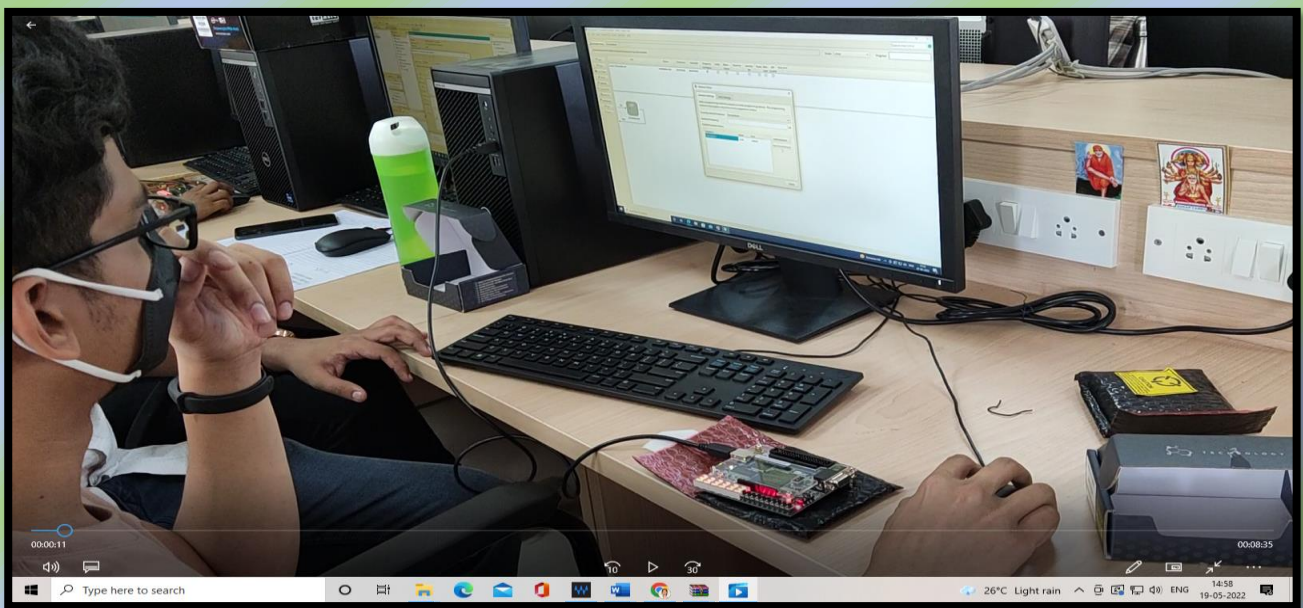
On Intel FPGA Design and Implementation

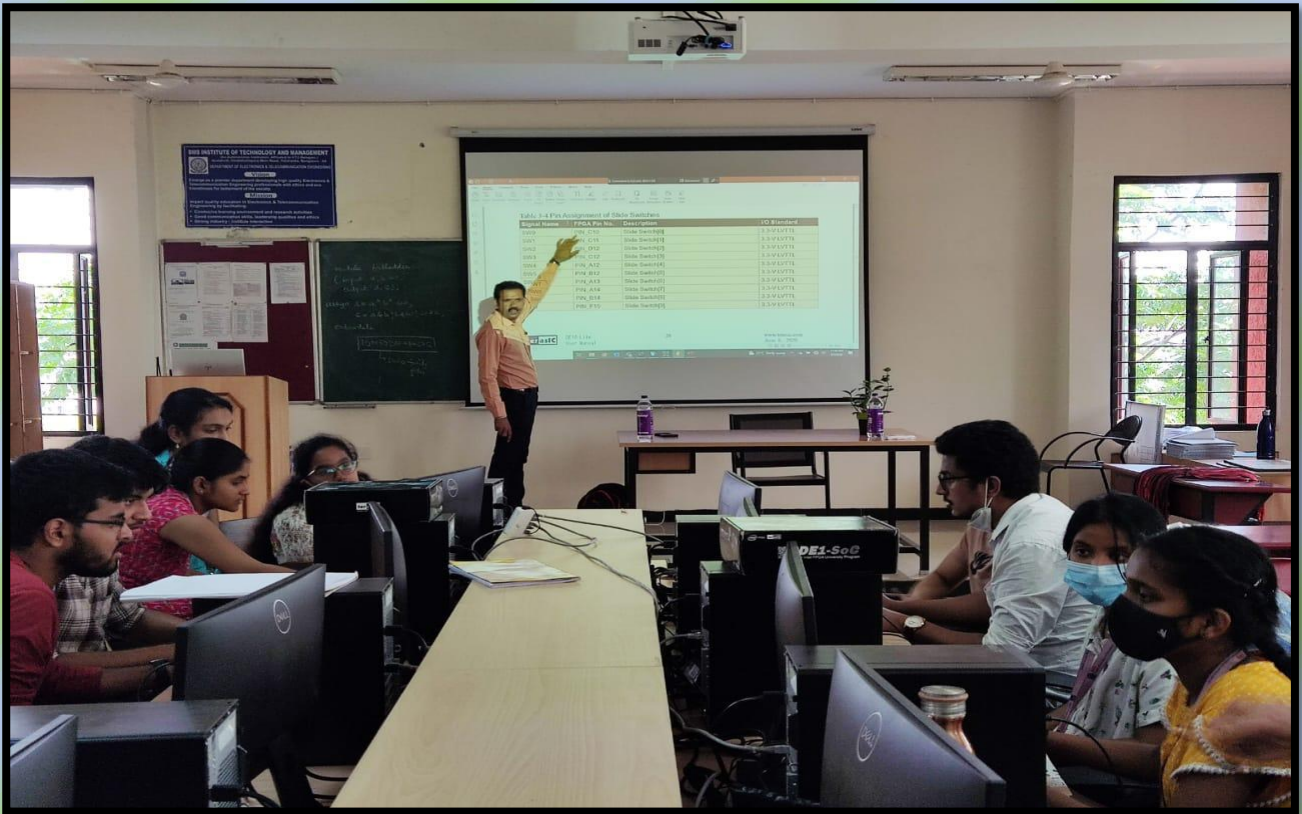
Resource Person :Mr. Padmanaban Kalyanaraman

Intel University Alliance Program Coordinator Bangalore

Date: 21st to 23rd and 28th April 2022 & 7th May 2022

Summary: An insight on learning about FPGA and their design implementation with SOC Design. Hands ON training was provided on the Intel FPGA boards along with SOC Designing.





Industrial Visit

Place: Visvesvaraya industrial and technological museum

Topic: An insight on Satellite Technology

Date:19.04.2022

Semester : I



Seminars / Expert Talks

Resource Person: Mr. Vinayaka Babu,
Managing Director, 4Semi Technology, Pvt .Ltd.

Topic: "Trends in Electronics and Telecommunication Industries"

Date: 29th October 2021

Semester : III,V,VII

EXPERT TALK



SPEAKER

MR. VINAYAKA BABU

MANAGING DIRECTOR, 4SemiTECHNOLOGY, Pvt. Ltd.,

TOPIC

TRENDS IN ELECTRONICS AND TELECOMMUNICATION INDUSTRIES

DATE: 29TH OCTOBER 2021

TIME: 2:00PM

VENUE: SECOND FLOOR SEMINAR HALL. ACADEMIC BLOCK

Talk about Trends in Electronics and Telecommunication Industries



Expert Talk

Resource Person:. Mr. Bhaskar Venugopalan Technologist, Industry Consultant

Topic: “Design Thinking and Innovations In Electronics and Telecommunication Engineering”

Date: 16th December, 2021

Semester : V,VII



Speaker

**Mr. Bhaskar Venugopalan
Technologist, Industry Consultant**

Topic

**Design Thinking and Innovations
in
Electronics and Telecommunication Engineering**

Date : 16.12.2021

Time : 1:45 pm to 3:00 pm

Venue : SECOND FLOOR SEMINAR HALL, ACADEMIC BLOCK

Talk about the four C's and the four pillars of Design Thinking.



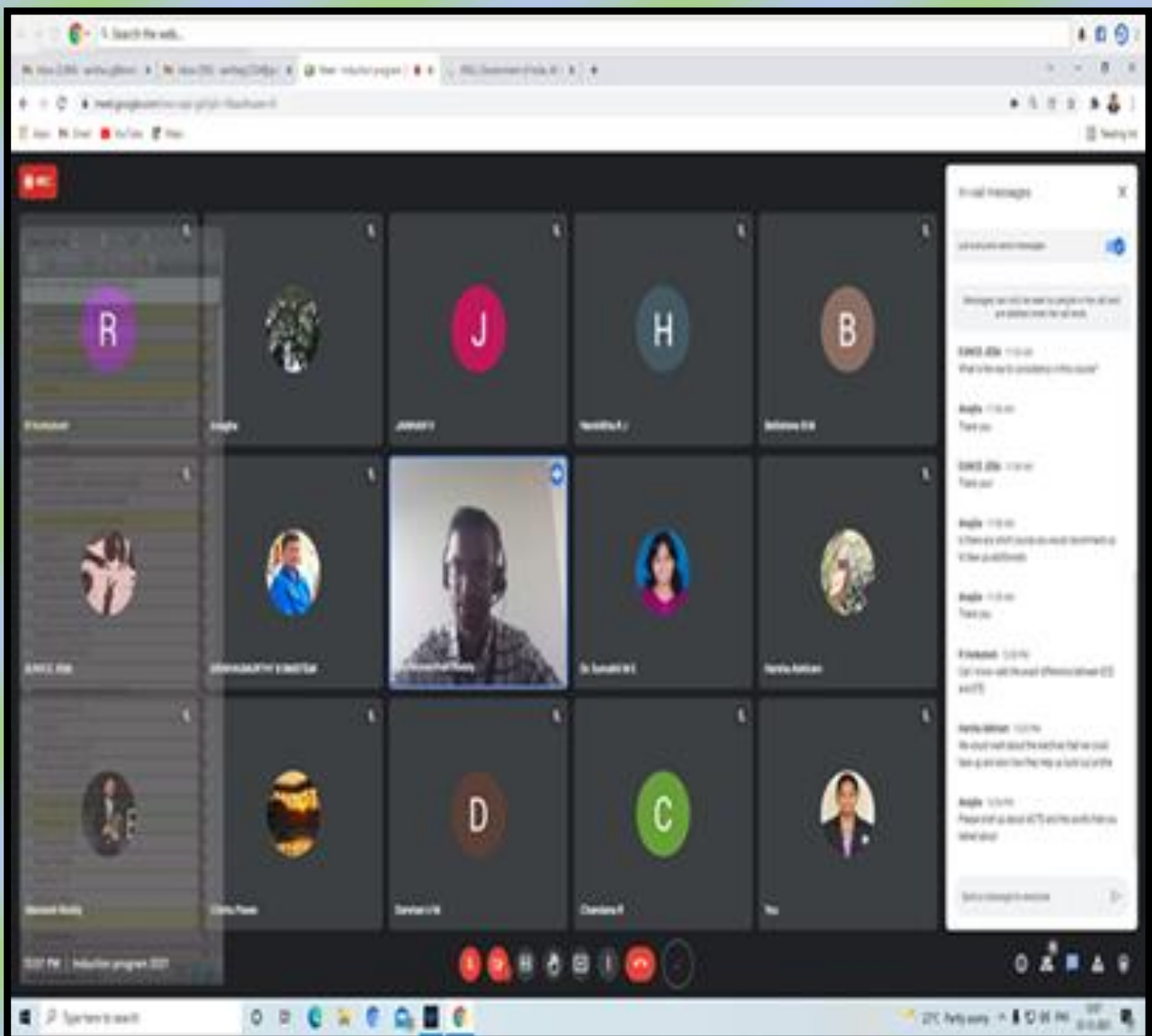
Induction Program

Resource Person: Mr. Vishnuvardhan Reddy,
Package consultant in Telecommunication sector ,IBM-AT

Topic: Brief insight about the Electronics & Telecommunication BMSITM

Date: 25th December, 2021

Semester : I



INTEL FPGA DESIGN CONTEST-2022

Students for Progressing to the Semi-Final Round of InTEL FPGA DESIGN CONTEST-2021-22.

Guide: Dr.Raju Hajare.

Team 1: Roshan Rajagopal and Anirudh V

Topic: "Enhancing Vehicular Safety using Cloud-Based IoT"



ROSHAN RAJAGOPAL
1BY19ET043



ANIRUDH V
1BY19ET007

Team 2: Ananya Pathak and Chitla Niraj

Topic: "Blind Spot Detection and Warning System for Vehicles"



ANANYA PATHAK
1BY19ET006



CHITLA NIRAJ
1BY19ET017

Team 3: Deeksha N and Aditya Suneel Patil

Topic: "Collision Avoidance and Traffic Management"



DEEKSHA N
1BY19ET021



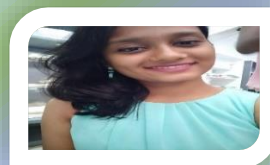
ADITYA SUNEEL PATIL
1BY19ET002

TEAM 4: Sanjana Kadam and Nivedita S

Topic "FPGA For Healthcare And Wellness"



SANJANA KADAM
1BY19ET046



NIVEDITA S
1BY19ET036

Academic Year

2020-2021

International Webinar

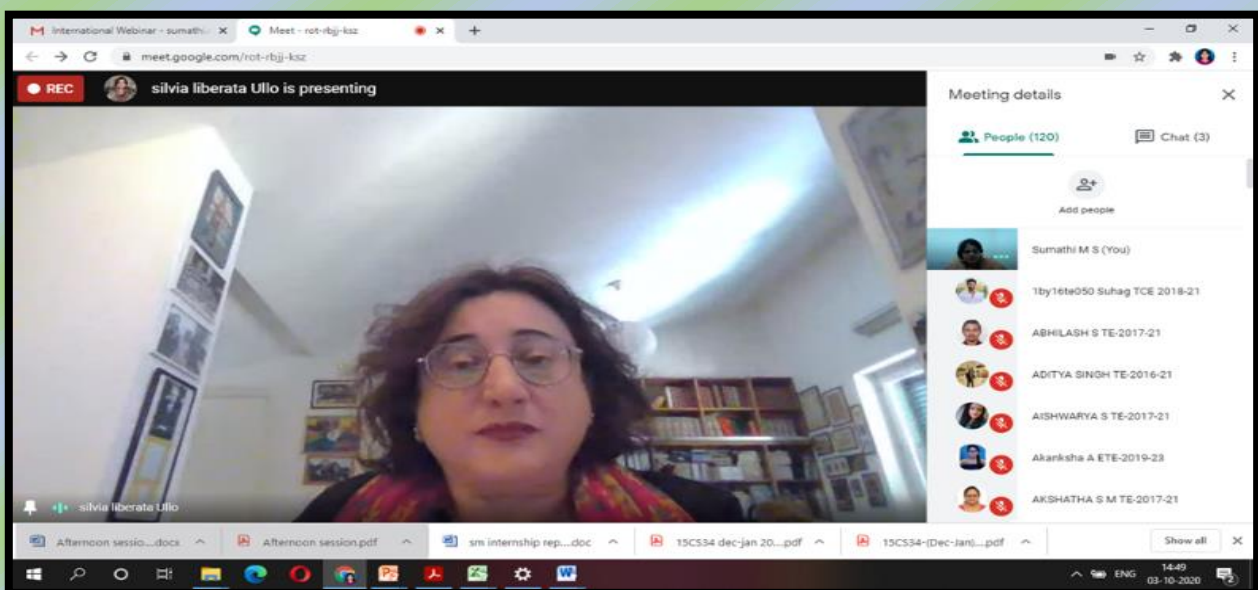
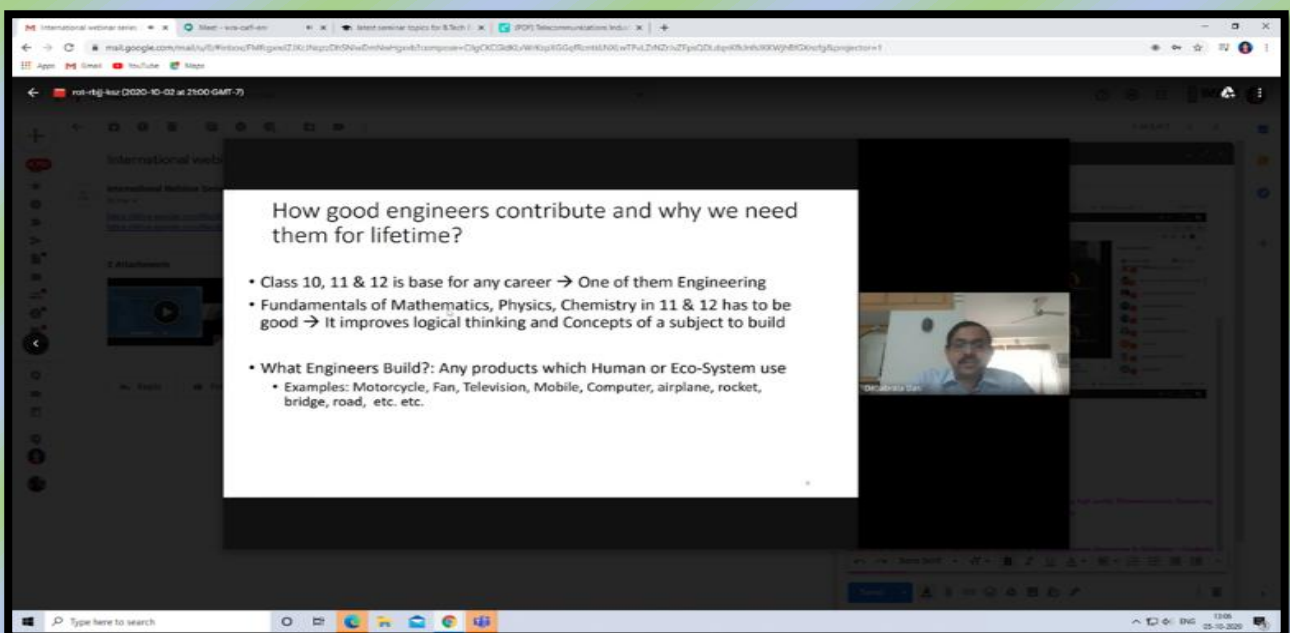
Resource Person/s

- Dr. Debabrata Das, Professor, IIIT, Bengaluru
- Dr Silvia Liberata Ullo, Department of Telecommunication, University of Sannio di Benevento, Italy

Topic: "Global Career Prospects in Electronics and Telecommunication Engineering"

Date: 3.10.2020

Semester : I

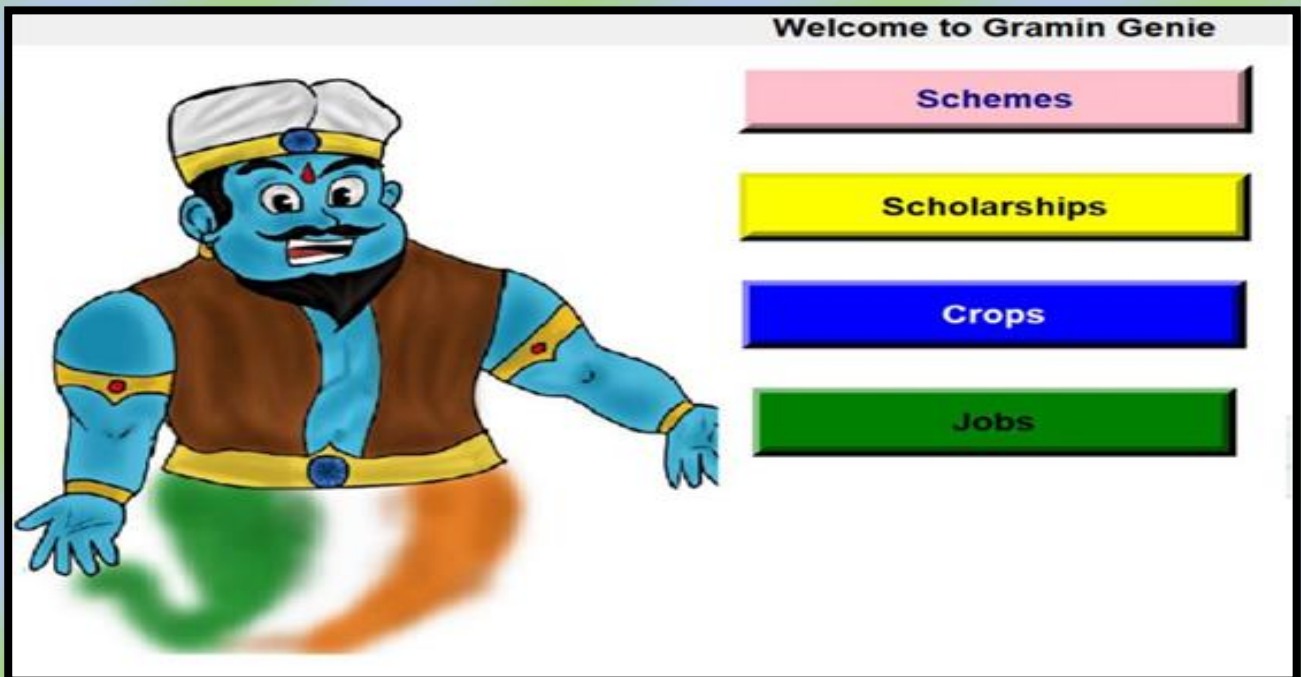


Project Virtual Expo-2021 (14.07.2021)

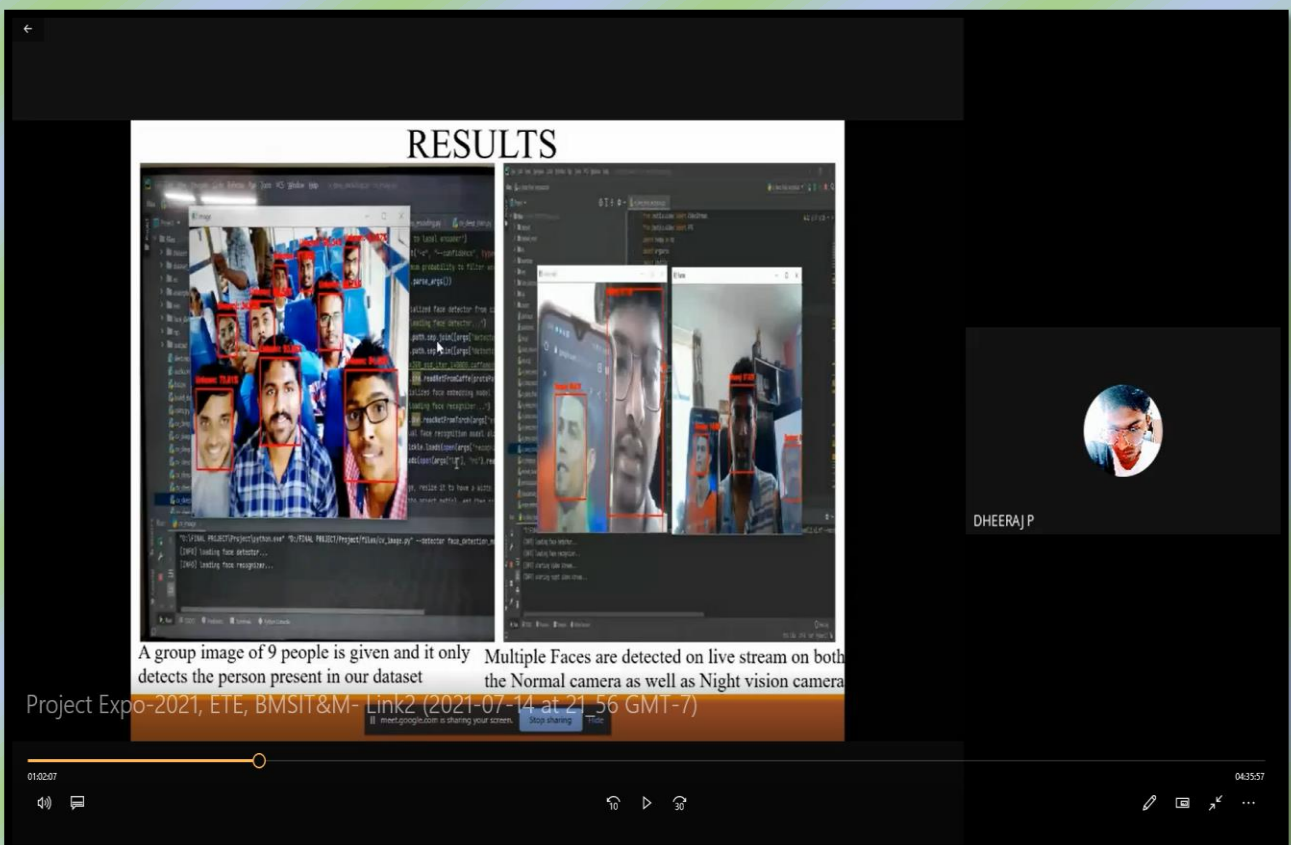
The screenshot shows a Cisco Webex Meeting window. At the top, there are tabs for 'Meeting Info', 'Hide Menu Bar', and 'Connected'. Below the tabs are icons for 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Meeting', and 'Help'. The main content area displays an invitation card for 'PROJECT VIRTUAL EXPO-2021'. The invitation text includes: 'BMS BMSIT&M DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING', 'INVIATION', 'We cordially invite you for the inauguration of PROJECT VIRTUAL EXPO-2021', 'DATE: 19th JULY, 2021.', 'TIME: 9:30 AM', 'JOIN HERE: <https://bmsit.webex.com/bmsit-en/j.php?MTID=nsa602a54d97fb2fae865605518d316c26>', 'Faculty Coordinator Prof. Siddiq Iqbal', and 'Convener Dr. Raju Hajare HoD ETE'. On the right side, there is a 'Participants (115)' list with search and refresh icons. The bottom of the window shows meeting controls: 'Unmute', 'Start video', 'Share', and 'Participants' and 'Chat' buttons. The system tray at the bottom right shows '21°C Rain showers', '09:41', and '15-Jul-21'.

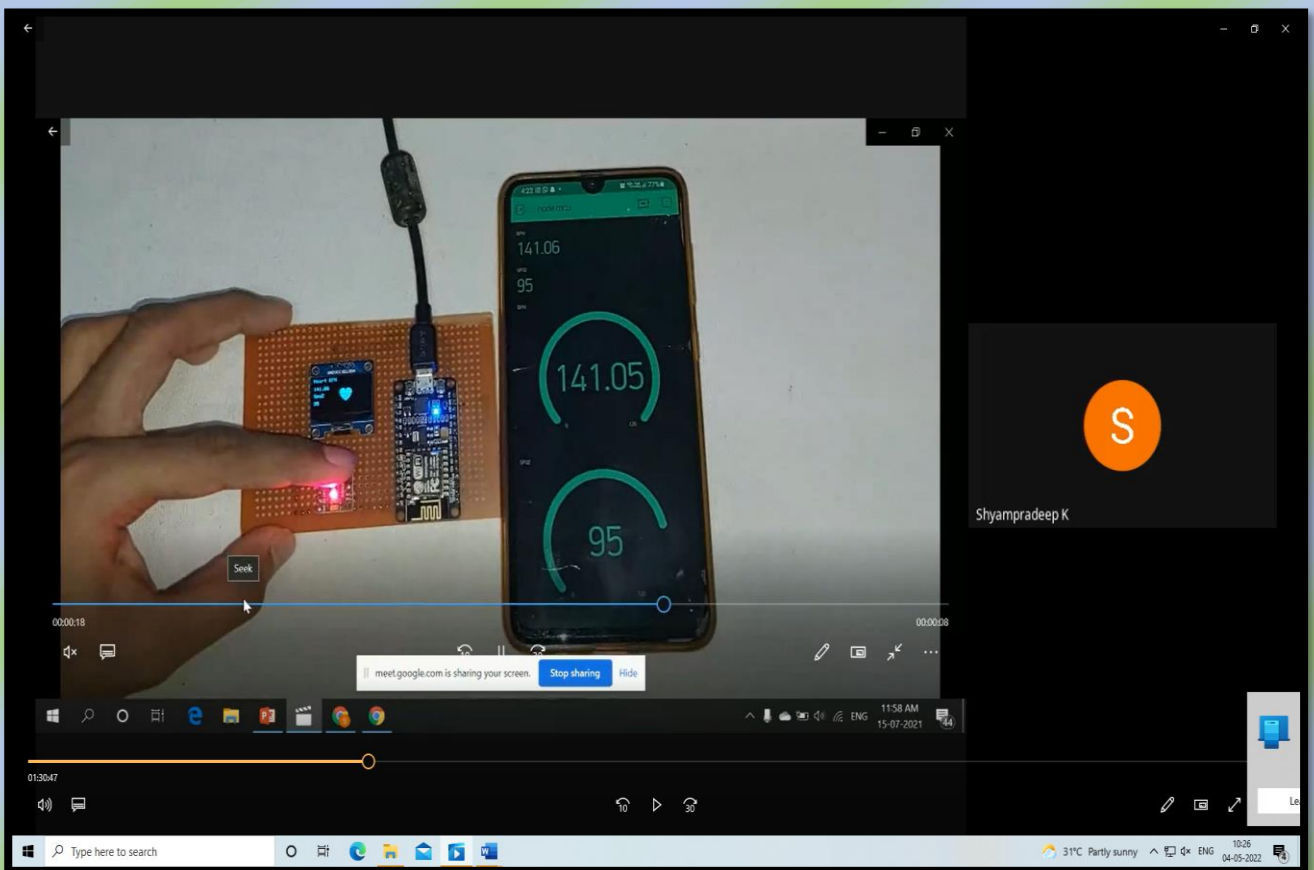
The screenshot shows a video player interface. The title bar reads 'Project Expo-2021, ETE, BMSIT&M- Link2 (2021-07-14 at 21:56 GMT-7)'. The video content shows a close-up of a metal pan on a stove, with a green tube and various wires connected to it. On the left side of the video, there is a vertical text overlay that reads 'PROTOTYPING WORKING'. The video player controls at the bottom include a play button, a search icon, and a share icon.

1st prize-Rs.10,000/-, was awarded to the project “iChef- The Smart Kitchen” by Shivam Vaish, Nikhil D and Mahima M P from BMS College of Engineering, Bengaluru.



2nd prize-Rs.5,000/- was awarded to the project “Gramin Genie- A smart kiosk” by Rakshith NV, Samarth Agasthya M S, Ritesh Rohan and Samannay Mjumder from Dayanand College of Engineering, Bengaluru.







RIGHTS Thursday July 22, 2021 **2**

Project Virtual Expo-2021 at BMSITM Yelahanka



The Project Virtual Expo-2021, held on the 15th of July, conducted by Department of Electronics and Telecommunication Engineering (ETE) of BMS Institute of Technology & Management went on to be an extremely successful event, with over 80 groups consisting of around 280 students participating from various corners of Karnataka state. The Virtual Expo 2021 was a platform created with the intent of allowing students to explore and present their creativity and skill set. The current pandemic is a huge hindrance in the creative flow of students, but this event proved to us that innovation never stops. Hence department took this event online to enable students from any city to be able to participate and showcase their hard work.

The expo began with an inauguration event with a speech given by Principal Dr. Mohan Babu G N of BMSIT&M emphasizing on need for creating such platforms for young minds to explore on new design thinking aspects of engineering and try finding out solution for the burning problems of society.

Dr. Raju Hajare Head of ETE department welcomed the gathering and mentioned that the aim of Project Expo-2021 was to create a platform for all engineering students to showcase their talent and exhibit their innovative ideas and novel methods of finding solution to the problems that all are facing today or society at large. Because students are the nation's future.

The event was off to a great start with brilliant projects presented remarkably by the students. The Expo was filled with enthusiasm and excitement from the students and judges alike. The projects were evaluated by the industry experts Dr. Prabhakar Mishra consultant to industries, Mr. Mithilesh Jagannathan from Honeywell, and Shri A.T Kishore, CEO of Vidya sangh. The 1st prize-Rs. 10,000/- was awarded to the project "iChef: The Smart Kitchen" by Shivam Vaish, Nikhil D and Mahima M P from BMS College of Engineering, Bengaluru. The 2nd prize-Rs. 5,000/- was awarded to the project "Gramin Genic- A smart kiosk" by Rakshit N.V, Samarth Agasthya M S, Ritesh Rohan and Samannay Mjunder from Dayanand College of Engineering, Bengaluru.

The prize for innovative project-Rs. 2,000/- each was awarded to

- "Performance optimisation of an exhaust system for 4-cylinder engine by implementation of computational fluid dynamics, acoustic and thermal analysis" by Mohammad Aayan, S Sumanth Sagar and Sanjay Raghav from BMS Institute of Technology, Bengaluru.
- "G-1" Pranav S, Iccvan K, V Mukesh Kumar and Nikas G K from Sahyadri College of Engineering and Management, Mangaluru.



CITY HILL

The Project Virtual Expo-2021, held on the 15th of July, went on to be an extremely successful event, with over 80 groups consisting of around 280 students participating from various corners of Karnataka.

Alumni Talk

Resource Person: SADAM HUSSAIN KAZMI

M.Sc, Information and Communication systems,
Technische Universität Chemnitz, Germany
(Pursuing PhD in Automotive Radar)


Topic: An insight to Radars in automotive and new trends in the field




Date: 29/07/2021

Semester : IV, VI

Alumni Talk
on
"RADARS IN AUTOMOTIVE"

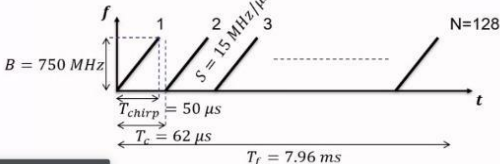
Sadam Hussain Kazmi
M S in Information and communication systems , Technische Universität Chemnitz, Germany
(Pursuing PhD in Automotive Radar)



 Date: 29/07/2021
 Time: 1:30pm-2:30pm
 Link: <https://meet.google.com/ugj-wydo-jyc>

TECHNISCHE UNIVERSITÄT CHEMNITZ | **Designing Chirp Parameters**

- To calculate Slope of the Chirp (S)
$$S = \frac{B}{T_{chirp}} = \frac{750 \text{ MHz}}{50 \mu\text{s}} = 15 \text{ MHz}/\mu\text{s}$$
- To calculate Number of Chirp (N)
$$T_f = NT_c \Rightarrow N = \frac{T_f}{T_c} = \frac{7.96 \times 10^{-3}}{62 \times 10^{-6}} \cong 128$$
- To calculate Frame time (T_f)
$$v_{res} = \frac{\lambda}{2T_f} \Rightarrow T_f = \frac{\lambda}{2v_{res}} = \frac{3 \times 10^8}{2 \times 0.88 \times \frac{1000}{3600}} = 7.96 \text{ ms}$$
- To calculate Maximum IF Bandwidth (B_{IF})
$$B_{IF} = \frac{2SR_{max}}{c} = \frac{2 \times 15 \text{ MHz} \times 45}{3 \times 10^8} = 4.5 \text{ MHz}$$



SANKET SINHA TE-2018-22 has left the meeting

Electromagnetic Theory 12 www.tu-chemnitz.de

2:02 PM | Radar Applications

Student workshop

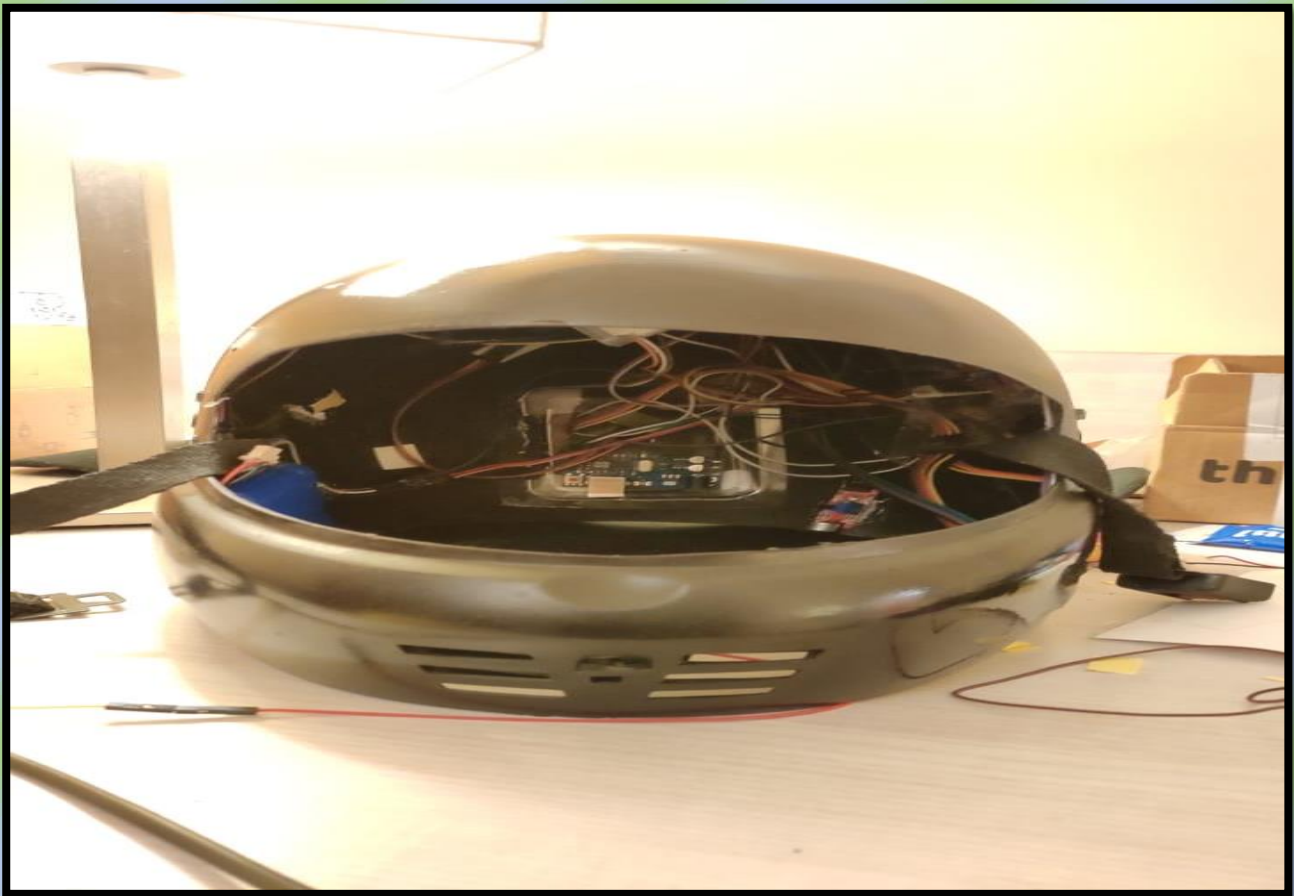
Topic: "Advanced Embedded Systems & IoT Using Texas Instrumentation Board"

Industry: Texas Instruments Innovation Centre in Collaboration with Edgate Technologies Pvt. Limited.

Date : 27th 31st January 2020







Alumni Talk

Resource Person: VINAY KUMAR,
Senior Wireless System Design Engineer, Apple Inc , USA

Topic: An insight on Global Positioning System (GPS) Technology in Smart Phones

Date:16/10/2021

Semester : IV, VI

“GPS Technology in Smart phones”

VINAY KUMAR

Senior Wireless
System
Design Engineer,
Apple Inc , USA



The screenshot shows a Zoom meeting interface. At the top, it says "REC" and "Vinay Kumar is presenting". The main content is a presentation slide titled "How GPS Works". The slide features a diagram of three GPS satellites (SV 7, SV 10, SV 15) sending signals to a person. Below the person are icons for a lighthouse, a classical building, and a modern building. To the right of the diagram is a map showing satellite orbits and a location marked "GALILEO". The Zoom interface also shows a list of participants on the right, including Vinay Kumar, Rohit Lochib ETE-2019-23, NAUREEN KHAN TE-2018-..., P VISHNUVARDHAN REDD., and Sumathi M S.

Expert Talk

Resource Person: VARSHA JAYADEV
Senior Software Engineer,
Android developer at PayPal, USA

Topic: An insight into Android Studio; hands on session on developing Android applications.

Date: 26/09/2021

Semester : IV, VI, VIII

“ANDROID WALK-THROUGH”

VARSHA JAYADEV
Senior Software Engineer
Android developer at PayPal

DATE: 26th September
TIME: 8:30 a.m.

REC V Varsha Jayadev is presenting Alfred Antony Thottan ETE-201... and 119 more

Architecture

- Linux based OS
- Open source
- Compose an email with image attachments from camera

The diagram illustrates the Android Architecture layers:

- System Apps:** Dialer, Email, Calendar, Camera, etc.
- Java API Framework:** Content Providers, Activity, Location, Package, Notification, View System, Resource, Telephony, Window, Managers.
- Native C/C++ Libraries:** Webkit, OpenMAX AL, Libc, Media Framework, OpenGL ES, etc.
- Android Runtime:** Android Runtime (ART), Core Libraries.
- Hardware Abstraction Layer (HAL):** Audio, Bluetooth, Camera, Sensors, etc.
- Linux Kernel:** Drivers, Audio, Binder (IPC), Display, Keypad, Bluetooth, Camera, Shared Memory, USB, WiFi.

Meeting details ^ Meeting controls: Mute, Video, Chat, Turn on captions, Varsha Jayadev is presenting

Alumni Talk

Resource Person: RAKSHITH K R,
Senior Matlab Developer, Jaguar Land rover,
KPIT Technologies 2013-17(BMSIT)
PRARTHANA PRAKASHA
DEL Researcher on optoelectronic oscillators,
University of Ottawa, Canada 2013-17(BMSIT)

Topic: "Enlightenment on Placements and Higher studies"

Date:19/09/2020

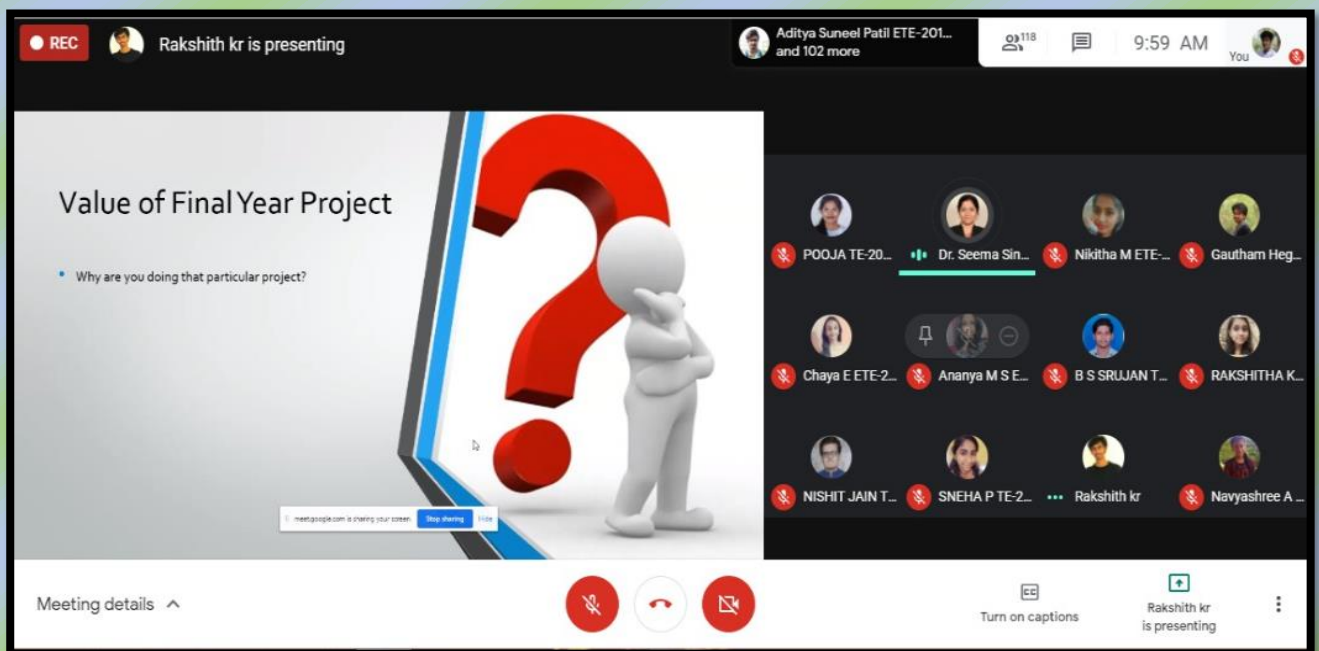
Semester : IV, VI, VIII

“Enlightenment on Placements and Higher studies”

RAKSHITH K R
Senior Matlab Developer,
Jaguar Land rover,
KPIT Technologies
2013-17(BMSIT)



PRARTHANA PRAKASHA
Researcher on optoelectronic oscillators,
University of Ottawa, Canada
2013-17(BMSIT)



EXPERT TALK

Resource Person: SANTOSH KIRAN KANDLE

Vice President,
Digital business systems Enterprise Architecture & CTIO,
Ericsson Dallas, USA

Topic: An insight into current trends in Telecommunication Engineering

Date:12/05/2021

Semester : IV, VI, VIII

EXPERT TALK ON “TRENDS IN TELECOMMUNICATION ENGINEERING”



Santosh Kiran Kandle,
Vice President of digital business
systems Enterprise Architecture
& CTIO, Ericsson ,
Dallas, USA

DATE: 12th May, 2021

TIME: 8:30 a.m. – 10:30 a.m.

Meeting URL:

<https://meet.google.com/huu-jnum-oji>

The screenshot shows a Google Meet interface with a presentation slide titled "Industrial opportunity". The slide contains four columns of text:

- For service providers, there's a lucrative opportunity to provide cellular connectivity to industries**
4.3 billion
Number of wireless connections in smart factories by 2030
- For industries, the ROI for moving to cellular-enabled Industry 4.0 is strong**
1 yr vs. 2 mo
Time to reconfigure an automotive factory – wired vs wireless
- Reliable wireless connectivity enables more automation to increase efficiency, productivity, accuracy.**
5-25%
Efficiency gains from AR-enabled vision picking or guided product assembly
- Dedicated cellular connectivity provides greater reliability and device density, predictable latency and robust security.**
\$30K per minute
Cost of downtime in an automotive factory

The meeting interface also shows a list of participants on the right, including Gayathri Singuri (presenting), GAURAV KUMA..., Mounica B ETE..., Mallikarjuna Go..., Sowmyashree S, C SOUJANYA J., NAUREEN KHA..., ETE Learning, and Naivedya Moha... The chat window on the right shows messages from HOD ETE and NAUREEN KHAN TE-2018-22.

EXPERT TALK

Resource Person: Mr. Brijesh Somashekar,
Associate General Manager at Schneider Electric,
Bangalore.

Topic: "DevOps for Upcoming Engineers"

Date: 23/10/2020

Semester : III, V, VII

"DevOps for upcoming Engineers"

BRIJESH SOMASHEKHARA

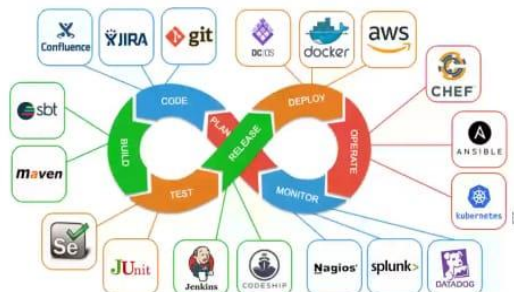
Associate General
Manager,
Schneider Electric



DATE: 23rd October, 2020

TIME: 2p.m. - 3p.m.

REC



DevOps ?

A set of practices that combines software development and IT operations.

It aims to shorten the systems development life cycle and provide continuous delivery with high software quality.

DevOps is complementary with Agile software development

SRIKANTH R TE-2017-21 joined



You

E

ETE



87 others

STUDENT WORKSHOP

Resource Person: CoreEL Technologies, Mathworks, IETE, ISTE

Topic: “Application with Hardware Integration using MATLAB and Simulink”

Date:30/11/2020 & 1/12/2020

Semester : IV, VI, VIII

What is the Difference Between Deep Learning and Machine Learning?

Deep learning is a subtype of machine learning. With machine learning, you manually extract the relevant features of an image. With deep learning, you feed the raw images directly into a deep neural network that learns the features automatically.

Deep learning often requires hundreds of thousands or millions of images for the best results. It's also computationally intensive and requires a high-performance GPU.

Machine Learning	Deep Learning
+ Good results with small data sets	- Requires very large data sets
+ Quick to train a model	- Computationally intensive
- Need to try different features and classifiers to achieve best results	+ Learns features and classifiers automatically
- Accuracy plateaus	+ Accuracy is unlimited

3 Takeaways

- Deep Learning has pushed state-of-the-art in AI **beyond human accuracy** in several fields.
- **MATLAB is a feature-rich framework for Deep Learning**, with an easy learning curve – Deep Network Designer, several pre-trained networks.
- Deep Learning has applications in **Image Analysis, Signal Processing, Text and Language Processing**, and so on.

Academic Year

2019-20

EXPERT TALK

Resource Person: Mr Vijay.V.Rao, from All India Engineers Association, Bengaluru

Topic: “Creating and Developing successful starts up with Zero Investments”

Date:25/02/2020

Semester Students: IV, VI



Alumni Talk

Resource Person: Mr. Kevin Mathews

Topic: Role of a project manager

Date:02/03/2020

Semester : IV, VI



Alumni Talk

Resource Person: Mr. Arvind Srikanth ,Senior sales catalyst, Convertcart

Topic: “Technology Sales & conversion rate optimization”

Date:25.04.2020

Semester : IV, VI



WEBINAR

Technology Sales &
Conversion Rate Optimisation

Arvind Srikanth
*Senior Sales Catalyst
Convertcart
(TE 2019)*

SATURDAY 25 APRIL | 4 PM

PLATFORM: GOOGLE MEET

<https://meet.google.com/frnh-ywww-xzqe>

OPEN TO ALL

Alumni Talk

Resource Person: Rakshith K R (Alumni), Matlab Developer, KPIT, Bangalore

Topic: Introduction to Computing languages and Environments

Date: 31.08.2019

Semester , II, VIII



Expert talk by Rakshith K R on **Computing languages and environments**

Industrial Visit

Place: Nano Science laboratories,VIAT, Muddenahalli, Chickballapur

Topic: Induction Program

Date:07.8.2019

Semester : I



Industrial Visit

Place: Dheemanth Solar Industries

Date: 11.09.2019

Semester : VII



Industrial Visit

Place: Vignesh Vidyuth Controls Pvt Ltd

Date:

Semester : II



Workshop

Industry: Edgate Pvt. Technologies

Topic: Advanced Embedded Systems & IOT Using Texas Instrumentation Board, in collaboration of Texas Innovation Center: Texas University Program.

Date: 27th to 31st January 2020



Memorandum Of Understanding

MoU's signed with M/S Edgate Technolgies Pvt. Limited and BMSIT&M on Texas Instrumentation Innovation Centre coordinated by Dr. Seema Singh, HoD (professor), ETE, Mrs Thejaswini S , Asst Professor , ETE, Mrs Surekha R Gondkar, Associate professor ECE.



Academic Year

2018-2019

Industrial Visit

Place: Visveswaraya Industrial and Technological Museum, Bengaluru
Topics learned: Basics of Electronics, evolution of different technologies, principles and different working models were studied

Date:19.4.2019

Semester : IV



Industrial Visit

Place: Indian Telephone Industry (ITI)

Date: 26.4.2019

Semester : IV, VI, VIII



Industrial Visit

Place: Fanuc India Pvt

Date:05.4.2019

Semester : VI



Industrial Visit

Place: VTU, Muddenahalli

Date:21.08.2018

Semester : I



Industrial Visit

Place: Nano Science and technology Lab at VTU PG centre, Muddenhalli,
Chikkaballapur

Date:28.09.2018

Semester : III



Industrial Visit

Place: Nano Science and technology Lab at VTU PG centre, Muddenhalli,
Chikkaballapur

Date:30.08.2018

Semester : I



Alumni Talk

Resource Person: Mr. Rachit Kabra, Founder & CEO at Portkey Consulting

Topic: Start-ups

Date:29.09.2018

Semester : V



Academic Year

2017-2018

Memorandum Of Understanding

MOU Signed between: Department of Electronics Telecommunication Engineering, BMSIT&M &

ELINT LABZ (a subsidiary of AJARAMARA DYNAMICS PVT.LTD)

Date: 05.06.2018

Summary : Student project and internships for students and staff. It is also helpful for conducting workshops/FDPs on and related topics.



Memorandum Of Understanding

MOU Signed between : BMSIT&M & PEENYA INDUSTRIES ASSOCIATION

Date: 30.05.2018

Summary : For training on various engineering related fields, student project and internships for students and staff. It is also helpful for conducting workshops/FDPs on Engineering and skill development topics.



Project Based Learning (Open Day)

Resource Person: Shri. D.G Rao , Senior Scientist from LRDE, Bengaluru and
Mr. Vinay Gowda, Director of Elint Labz, Bengaluru

Date:18.05.2018

Summary: Students exhibited their ambitious practical knowledge by presenting their projects. Projects related to various disciplines such as Robotics, Machine Learning, Antenna Design and Signal Processing were exhibited. Many of these projects possess the potential to have a serious impact on the human lifestyle in the future days





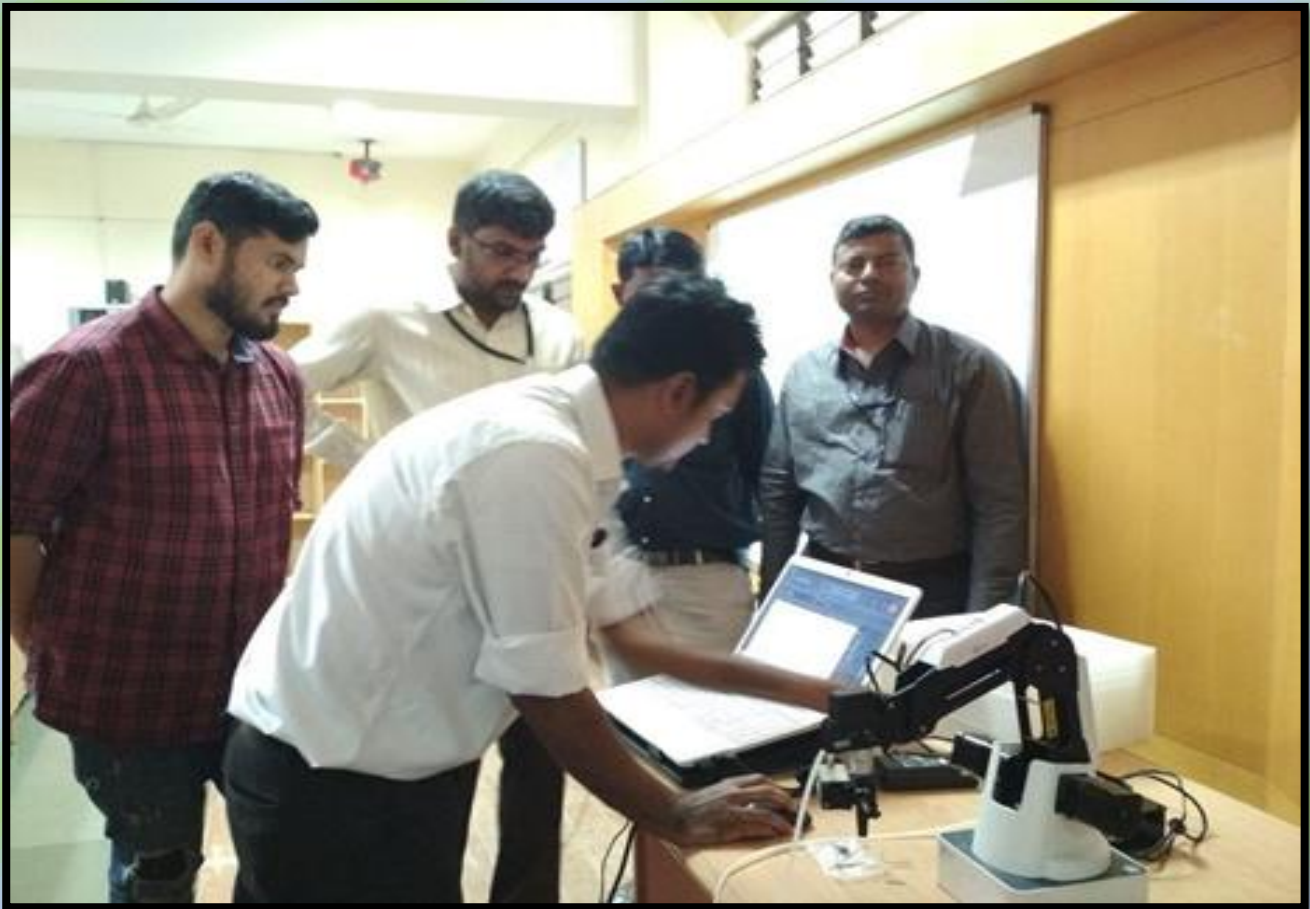
Faculty Development Program Conducted

Topic: 5 days on Artificial Intelligence and Robotics

Resource Person: Dr D S Guru, Mr Varun S Mighty AI, USA

Date:23.07.2018 to 27.07.2018

Summary: “ Introduction & Applications of Machine learning”, “Different techniques of machine learning



Demonstration of arm-controlled robot



Expert Talk

Resource Person: Vinayaka, Babu, MD, of 4Semitechnology, Bengaluru

Topic: "Embedded systems and applications"

Date:03.03.2018

Semester Students:4th & 6th

Summary:In the field of Embedded systems design and his passion towards embedded domain in large. He deliberated on his experience of developing embedded systems for Defence and ISRO. He motivated our students to take up the projects on embedded and multidisciplinary area and start working towards the same for better learning of the subjects



Student Workshop

Industry: EDC cell IIT Roorkee & Revert technologies, Delhi

Topic: "Robotics"

Date: 1.8.2017 to 3.8.2017



Students participating in HANDS –on Training



Students Demonstrating their robotics models



Hands on basic peripherals

Industrial Visit

Place:ISRO

Date:16.03.2018

Semester : VIII



Industrial Visit

Place: Gauribidanur Radio Observatory

Date:03.11.2017

Semester : V



Alumni Interaction

Resource Person: Praveen Chikke Gowda,

SLK Software & Mr.Akash Malikood, Cisco

Date:04.11.2017



Alumni Interaction

Resource Person:

Mr. Chetan Aswathanarayana, Senior Team leader, MathWorks

Mr.Aaditya Uthappa, Director business enterprise and head-Partner success at Paladion Networks

Date:01.07.2017



Academic Year

2016-2017

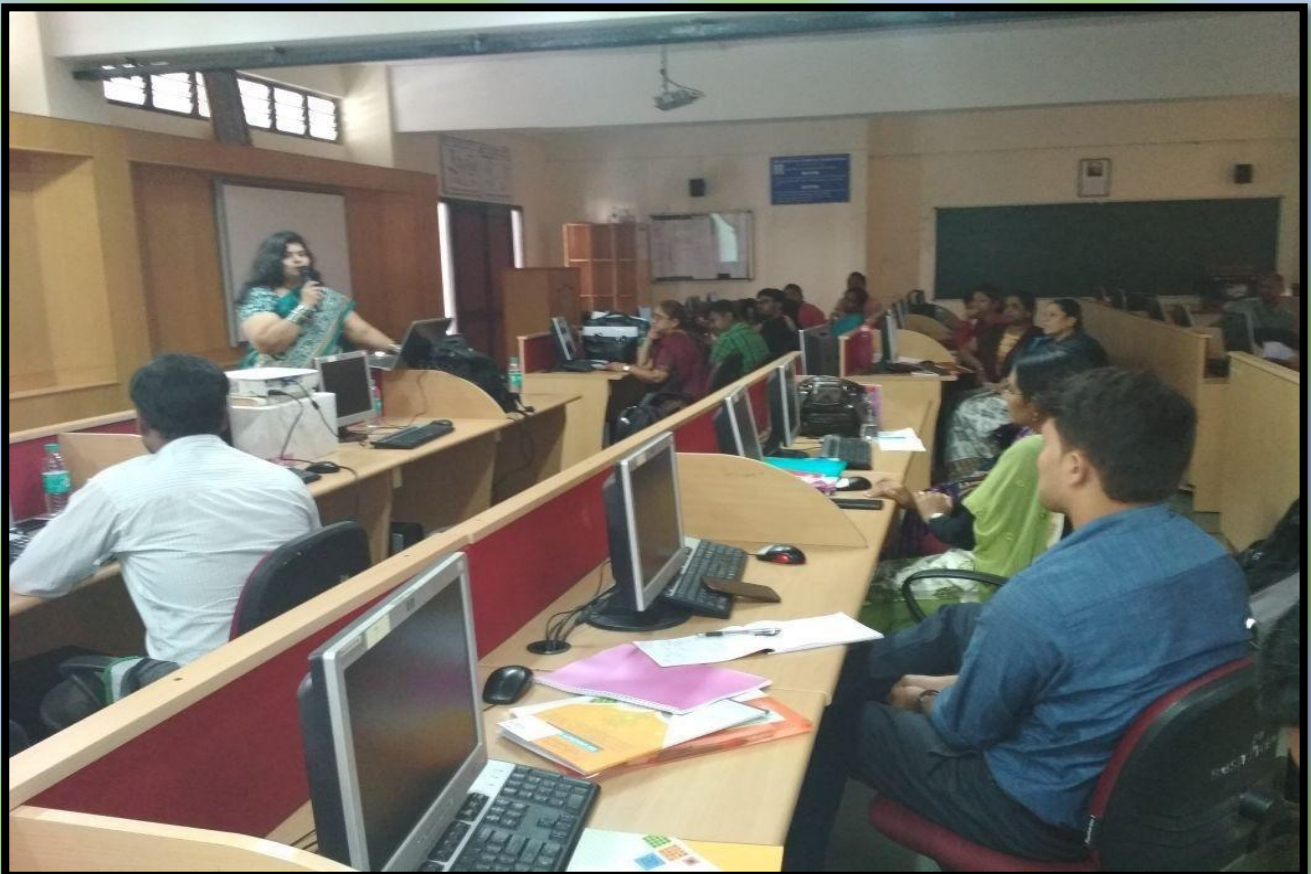
Faculty Development Program Conducted

Topic: Five Days on "Programming ARM Processor with Hands on using ESA KEIL ARM Cortex-M3 Evaluation Board".

Resource Person: Mrs. Geetha S Nazre, Technical Manager, ELECTRO SYSTEMS ASSOCIATES, Bengaluru

Date: 11.12.2017 to 15.12.2017

Summary : Introduction to ARM Cortex, M3 and M4 processor, Brief introduction of embedded computer architecture, design concepts and RTOS, IDE for system design. concepts of Cortex M3 and Cortex-M4 over view, Cortex M3 and Cortex-M4 Micro Architecture, Assembler Programming for ARM v7M processors, Introduction to Keil MDKARM Software development tools.







Project Based Learning (Open Day)

Resource Person: Sri. S. Purushothaman, Scientist/Engr-SE from ISRO Satellite Centre, Bengaluru

Date:16.05.2017

Summary: Engineers to showcase their experimental learning, and demonstrate responsibility of their own learning, with focus on creating more awareness of Technology and engineering. Students of Telecommunication Engineering displayed the working models they had worked on, outside of class hours, to complete. Student's innovative ideas were very much in evidence at the Project Exhibition.



Open Course

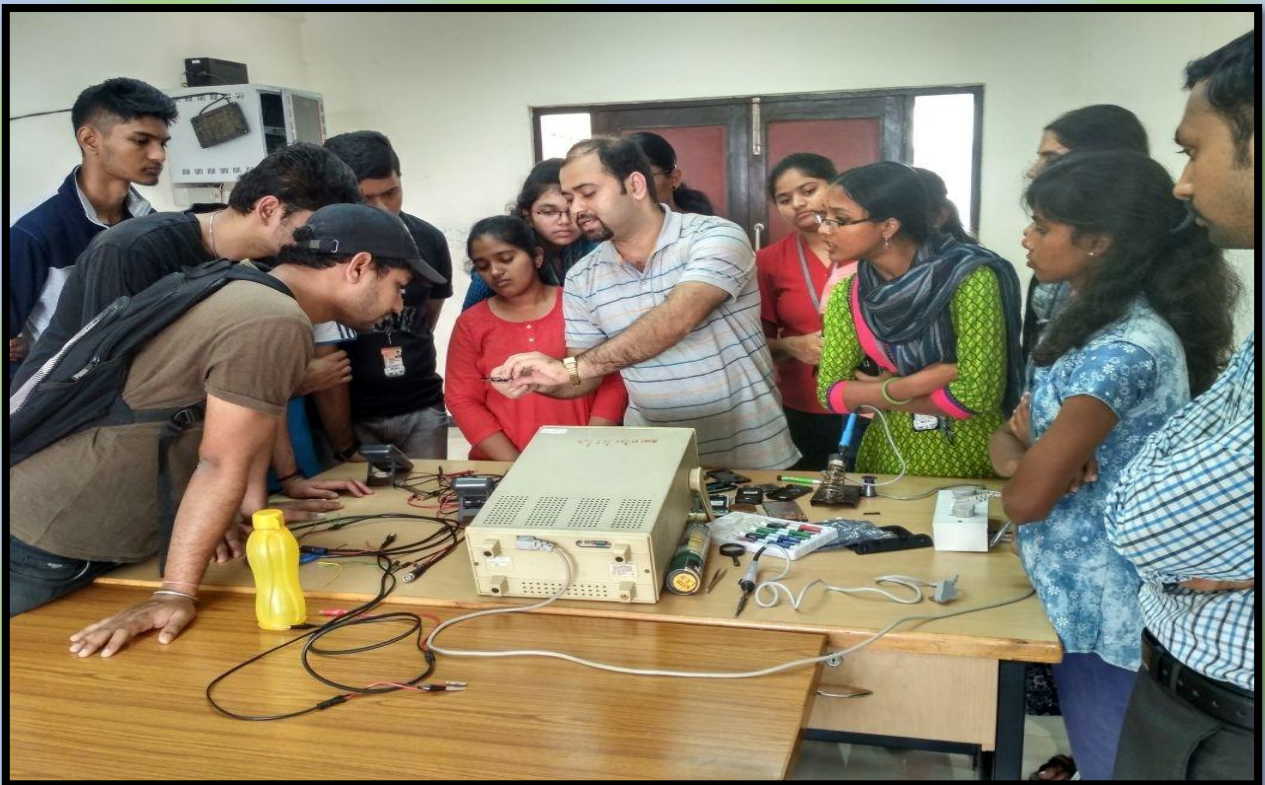
Resource Person: Mr Prasanna

Topic: "Mobile Communication"

Date: 5.02.2018 to 8.02.2018

Semester Students: 2nd, 4th & 6th

Summary: Hands on session on Mobile handset by and students learnt about different components of mobile .



Hands on session on "Mobile components"

Memorandum Of Understanding

MOU Signed between : Department of Electronics Telecommunication Engineering, BMSIT&M & Technilab Instrument

Date: 22.12.2017

Summary :MOU provides for training on RF communication, student project and internships for students and staff. It is also helpful for conducting workshops/FDPs on RF communication and related topics.



Expert Talk

Resource Person: Dr. Kalaga Venu Madhav, Technical Lead BIGTEC Private Limited

Topic: "Building Engineering Products based on societal needs"

Date: 19.08.2016

Semester Students: 5th & 7th

Summary: Briefed about the concepts related to air craft building. He gave ideas on how to prevent fuel in the plane from exploding, oxygen level at different altitudes and fire triangle etc.



Expert Talk

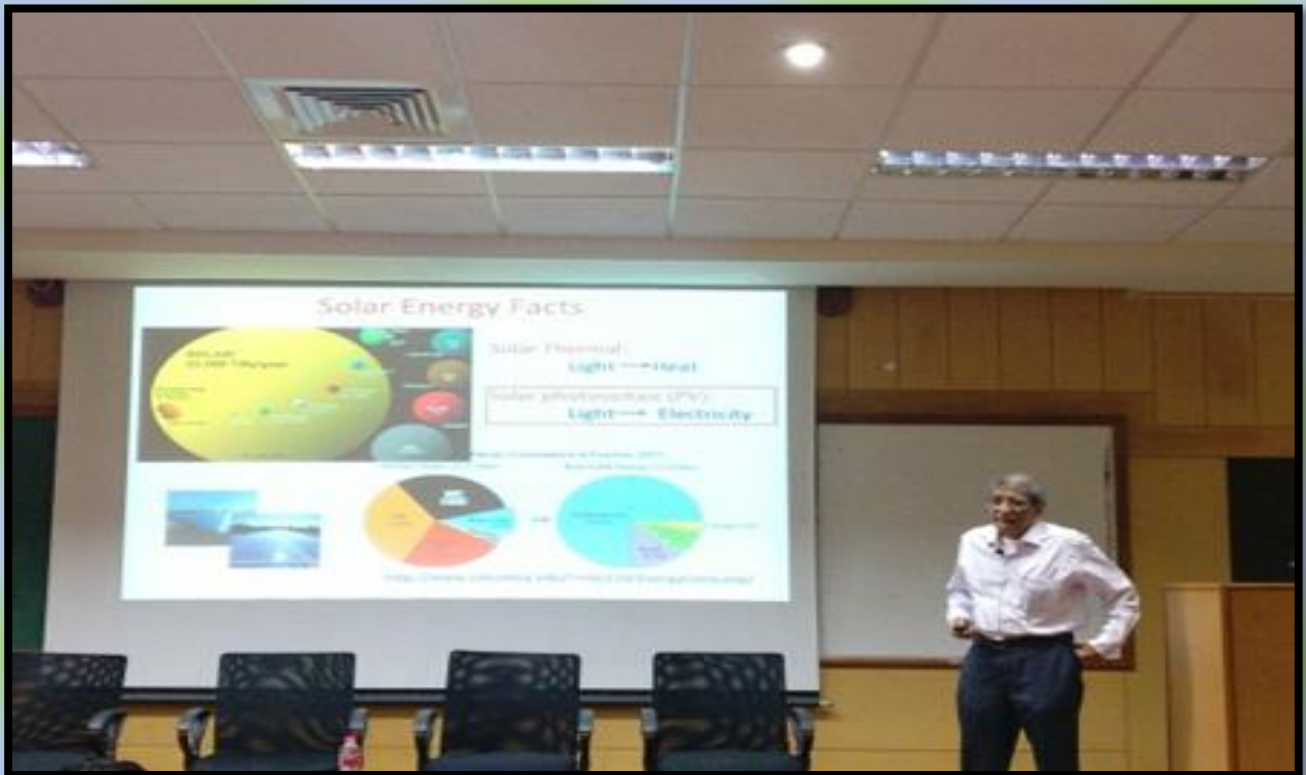
Resource Person: Dr.K.N.Bhat Emeritus Professor in the Centre for Nano Science and Engineering at the Indian Institute of Science (IISc), Bengaluru

Topic: Solar cell concepts and Technology

Date:03.03.2017

Semester Students:4th & 6th

Summary: The topics like working principle of solar cells technology, application quoting the examples of Solar panels in wings of aircraft and challenges involved in improving the conversion efficiency of the cell itself were explained.



Alumni Talk

Resource Person: Mahesh B.S.

Topic: Higher Studies

Date: 03.03.2017

Semester Students: 6

Summary: The talk was about higher studies, career guidance. The talk included basic information regarding masters in Germany such as how to apply, universities ranking, procedure of short listing the courses, accommodation, part time jobs, cost of living



Industrial Visit

Place: BTS, Yelahanka, Bangalore

Date: 10.07.2016

Semester : V

Summary: The information about MDF and its features, switching networks, packet switching, control of switching systems and telecommunication traffic was explained to students.



Industrial Visit

Place: ISRO

Date:14.02.2017

Semester : VIII

Summary: students to know the importance of electronics in Aerospace During the visit, ISRO Scientists Renuka R and H L Srinivasa explained the different types of Rockets with their models, different applications, range, speed, uses of PSLV and GSLV satellites. Later the scientist showed them some electronic devices like ASIC chips, PCB boards etc. They also explained the payloads, materials that are used in building rockets



Industrial Visit

Place: FUNUC India Pvt. Ltd

Date:10.03.2017

Semester : IV

Summary: The students got an opportunity to explore their robotic products for arc welding, Milling ,drilling, CNC machines and so on. It helped them to correlate the theoretical knowledge gained in classroom with practicality and it also helped them in understanding the impact of engineering solution to societal needs.



Project Based Learning (Open Day)

Resource Person: Mr. Satish Kumar Bandlamudi, Scientist 'D' from ISRO, Bengaluru

Date: 25.5.2016

Summary: Mr. Satish Kumar Bandlamudi gave his opinion as some of the projects can be converted into a commercial product and also he stressed upon the optimization of power consumption, complexity of the system, battery life and cost to be considered while designing any product



Academic Year

2015-16

Industrial Visit

Place: Telephone Exchange BSNL Yelahanka

Date:08.08.2015

Semester : V

Summary: exposed to various switching elements in the telephone exchange. The practical knowledge gained will help the students to understand the subject Digital Switching system



Industrial Visit

Place: Visveswaraya Museum

Date:13.08.2015

Semester : III

Summary: Different scientific discipline including an engine hall, electro- technical gallery, fun science gallery, space gallery, science for children gallery and other attractions types of communication system, Manufacturing of IC chips and so on.



Industrial Visit

Place: ISRO, Bangalore

Date: 18.09.2015

Semester : VII

Summary: Different units in ISRO was shown to the students such as launch pads, Clean room where the satellites are built and tested. The exhibition was also shown where the demonstration of different satellites and their working was explained



Industrial Visit

Place: ELECRAMA

Date:16.02.2016

Semester : VIII

Summary: Students aware about the recent technological trends and advancements brought about by the industries. The biggest showcase of the world of electricity, ELECRAMA brought together the complete spectrum of solutions that powers the planet. Featuring not just equipment & technology, but peerless thoughts on leadership platforms for everything electric - from technical conferences to industry summits.



EXPERT TALK

Resource Person: Mr. Prashanth Hebbar, CEO, Knobly

Topic: "Attitude, Skills & Empathy"

Date:08/08/2015

Semester : III



EXPERT TALK

Resource Person: Mr. Mallikarjun K Kapattanvar, Entrepreneur

Topic: "Environment Pollution "

Date:18/08/2015

Semester : III, V, VII



EXPERT TALK

Resource Person: Mr. Arundeeep N, Alumni, CISCO

Topic"Networking Opportunities" "

Date:12/09/2015

Semester : VII



EXPERT TALK

Resource Person: Mr. VarunThamba, Alumni, SAP Solutions

Topic:"Business Management &Solution

Date:12/09/2015

Semester : V



EXPERT TALK

Resource Person: Dr. Chetan. D. Parikh, IIIT-B

Topic :“Analog Electronic Circuits”

Date:17/10/2015

Semester : III



EXPERT TALK

Resource Person: Dr.Radha Parikh Visiting Professor, IIIT-B

Topic :“ Communication Skills”

Date:17/10/2015

Semester : V, VII



ALUMNI TALK

Resource Person: Mr.SaradhiAkhilesh
Topic Project and Finance Management
Date:13/02/2015
Semester : VI, VIII



Student Workshop

Resource person: Dr. Ashok Rao, Former Head, Network Project, CEDT, IISc, Bangalore

Topic: “Digital signal Processing and Applications”

Date: 18.10.2015

Students :V, VII

