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BITECH VOICE
NEWSLETTER OF ECE DEPARTMENT

Volume - 6, Issue - 2 January – June 2023

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Inside the Issue

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- Student Achievements /Activities
- Faculty Achievements /Activities
- Literary Contribution
- Alumni Corner

Quote Corner

Education is the kindling of a flame, not the filling of a vessel

Socrates

Chairman/Editor
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Vision: To be in the forefront in providing quality technical education and research in Electronics & Communication Engineering to produce skilled professionals to cater to the challenges of the society.

Mission:

M1. To facilitate the students with profound technical knowledge through effective teaching learning process for a successful career.

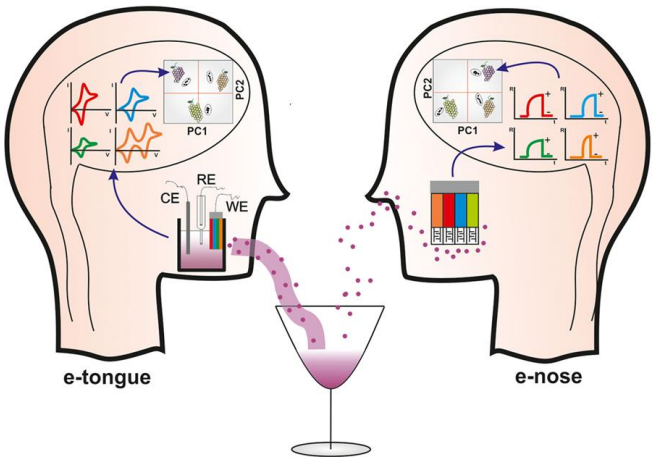
M2. To impart quality education to strengthen students to meet the industry standards and face confidently the challenges in the program.

M3. To develop the essence of innovation and research among students and faculty by providing infrastructure and a conducive environment.

M4. To inculcate the student community with ethical values, communication skills, leadership qualities, entrepreneurial skills and lifelong learning to meet the societal needs.

Electronics in Food Industry

Electronics play very important role for automation in food industry. Automated systems in food production come in different functions and sizes, very much depending on the food type and specific requirements of the manufacturers. Food preservation is a method of maintaining foods at a desired level of properties for the maximum benefits. Bio sensors are designed for the detection and identification of contaminants in food. Digital image processing techniques have been increasingly used for quality analysis of food material. Through image processing fruits and vegetables can be easily categorized according to their size, shape, color etc. Feeling of smell and taste coming from specific and non-specific atomic structures can be utilized to analyze the nature of food, drinks, and mixture of food items. Electronic-Nose works actively to detect the quality of foods. Electronic-Tongue is an instrument that measures and compares food tastes. The adoption of emerging technologies in improving quality inspection of food products will be of immense benefit for the food industry.



From HOD's Desk

I am happy to note that the Department is releasing Volume 6 Issue 2 of ***BITECH VOICE NEWSLETTER OF ECE DEPARTMENT,*** enumerating the various activities and achievements of faculty and students. Department endeavors to produce skilled professionals adoptable to working environment. Department exhibits excellent academic environment with qualified faculty members to inspire the students for development of technical skills and to inculcate the spirit of team work.

I am glad to share that, Mr. Yathish Chandra G H (alumnus), Deputy Commissioner of Police, CCB, Bangalore, visited the Department.

Department signed an MoU with Abeyaantrix Softlab. Department organized Cognition and Papyrus, a state level paper presentation event.

I, congratulate Rakshithgouda Patil, Sanmati Satabhai, Rohan A M, and Mallikarjun Koppad of VIII Semester for receiving best project award in In-house Project Exhibition.

Dr. G S Sunitha

Safe and Healthy Diet

Emphasizes fruits, vegetables, whole grains, and fat-free or low-fat milk and milk products. Includes a variety of protein foods such as seafood, lean meats and poultry, eggs, legumes (beans and peas), soy products, nuts, and seeds. Eat less added sugars, sodium, saturated fats, trans fats, and cholesterol.

DEPARTMENT ACTIVITIES

- Prize distribution for NB cup winners was organized on 28th June 2023.

NB Cup Cricket winners receiving prize on 28th June 2023.

NB Cup Throw Ball winners receiving prize on 28th June 2023

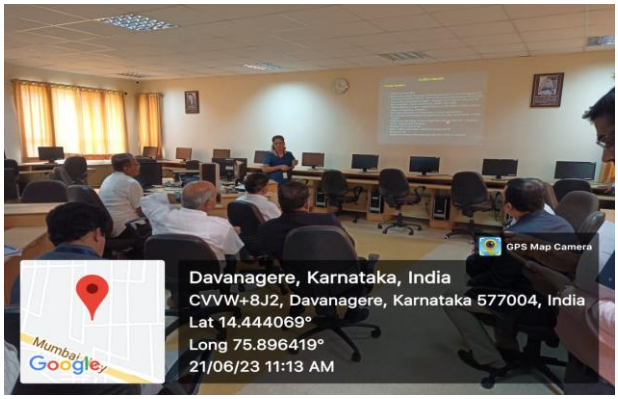
- LIC Visit on 26th June 2023

- Inauguration of NB cup on 23rd June 2023.

Throw Ball Inauguration for Girls on 23rd June 2023

Cricket Inauguration on 23rd June 2023

- NAAC peer team visited the Department on 21st June 2023.



Presentation by Dr. G S Sunitha on 21st June 2023

- Faculty and students participated in YOGA day programme organized by the Institute on 21st June 2023.

YOGA day event

- Participation of Program Coordinator Dr. G S Sunitha and faculty in Plantation activity organized on 16th June 2023.

Plantation activity on 16th June 2023

- Graduation Day was celebrated on 10th June 2023.

Certificate distribution to graduates by Program Coordinator Dr. G S Sunitha on 10th June 2023

- Mr. Yathish Chandra G H IPS Deputy Commissioner of Police, CCB, Bangalore, and alumnus was Chief Guest for Graduation Day on 10th June 2023. He visited the Department.

Felicitation to Mr. Yathish Chandra on 10th June 2023

Visit of Mr. Yathish Chandra to the Department on 10th June 2023

- Experts from Tessolve visited the institute and gave pre placement talk on 8th June 2023.

Pre placement talk on 8th June 2023

- MoU was signed between Abeyaantrix Softlab and the Department on 6th June 2023.

MoU signed on 6h June 2023

- Students, Rakshithgouda Patil, Sanmati Satabhai, Rohan A M and Mallikarjun Koppad of VIII Semester have received best project award for the project titled **Hot Beverage Vending Machine** guided by Program Coordinator Dr. G S Sunitha in NIRMANA 3.0- In-house Project Exhibition organized on 29th May 2023.

Best Project award received by Mr. Yogesh K O on 29th May 2023

- Cognition and Papyrus,a state level paper presentation were organized on 29th May 2023. Mrs. Pragna, alumnus was the Guest for inauguration.

Inauguration of Forum activities on 29th May 2023

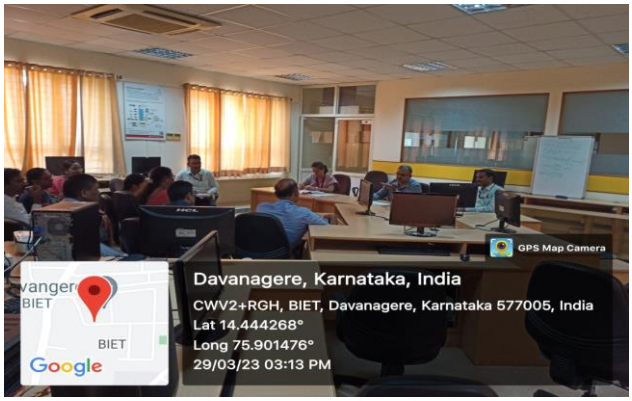
Cognition presentation on 29th May 2023

Prize distribution to Paper presentation winners on 29th May 2023

- Dr. Manjunath P from JNNCE and Dr. Narashimhamurthy K C from SIT visited the department as External Experts for Academic Audit for the year 2021-22 on 2nd May 2023.

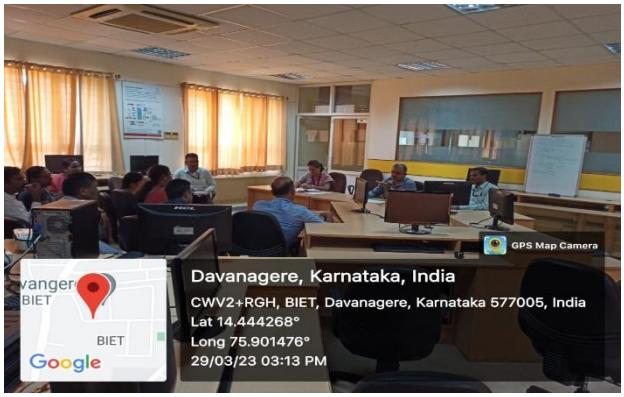
Experts visit on 2nd May 2023

- Developmental activities discussions with Experts on 31st March 2023.



Discussions with Expert on 31st March 2023

- VTU LIC committee visited the department on 29th March 2023.



LIC committee visit on 29th March 2023

- Technical Talk on Roadmap for Electronics Engineering Career -Future Semiconductor by Dr. Santhosh Onkar was organized on 2nd March 2023.

Technical Talk by Dr. Santhosh Onkar on 2nd March 2023

- Talk on awareness about distance learning program and importance of MBA and other PG specialization by Dr. Harsha assistant professor in Karnataka State Open University Mysore was arranged for III Semester ECE and Textile students on 21st February 2023.

Talk by Dr. Harsha on 21st Februavy 2023

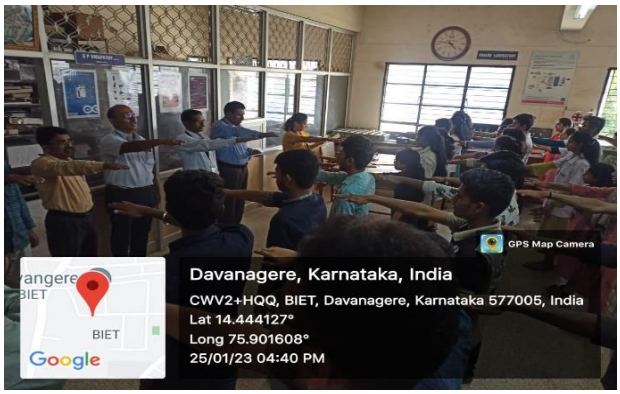
- Two days hands-on workshop on **Circuit Prototyping** for III Semester students was conducted by Mr. Rakesh, Director, R-logic Technologies, Bengaluru on 14th and 15th February 2023, around 47 students participated.

Workshop on Circuit Prototyping on 14th and 15th February 2023

- Martyr's day was observed on 30th January 2023.

Martyr's day observed on 30th January 2023

- Voter's day was celebrated by taking oath on 25th January 2023.



Oath taking on Voters' day on 25th January 2023

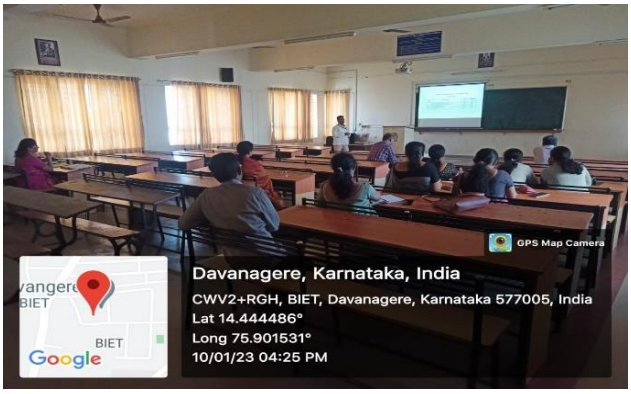
- Dr. G S Sunitha and Smt. Savitri G R organized orientation program on **Intel India STEM Skills Program for Women** on 13th January 2023 in association with Learning Links Foundation (LLF). **MoU was signed by Principal, BIET, Davanagere with LLF.**

Intel India STEM Skills Program on 13th January 2023

- Dr. G S Sunitha and Dr. Prakash K M organized talk on How to be successful entrepreneur without prior experience and Huge Capital by Venkatesh Devale, CEO, Spacenos, alumnus on 13th Jan 2023 under EDC cell.

Ideas for successful entrepreneurship on 30th January 2023

- Dr. Avinash K G had presented about **NIRF and Quartile Journals** to the faculty of the department on 10th January 2023.



Presentation of NIRF on10th January 2023

STUDENT ACHIEVEMENTS / ACTIVITIES

- During NAAC peer team visit on 22nd June 2023 VI Semester student Prajwal S did Painting of Puneeth Rajkumar in reverse.

Puneeth Rajkumar painting display on 22nd June 2023

- Students exhibited their projects in Nirmana 3.0 held on 29th May 2023.

Project Exhibition on 29th May 2023

- Students won Fashion Fiesta competition in Davana 2023 on 31st March 2023.

Fashion Fiesta winners celebration on 31st March 2023

- 15 students from VIII Semester are selected for **Microsoft Philanthropies Stage II training on Cyber Security** by ICT academy and is scheduled from 27th Feb to 7th March 2023.

Training on Cyber Security by ICT academy

- V Semester students had given the presentation on Organic Farming to III Semester students under AICTE activity point on 9th January 2023. Quiz was conducted and distributed prize for top 3 students.

- 14 students of 3rd year and 4th year have registered for NPTEL Courses.

Sl. No.	USN	Name
1	4BD19EC014	Anushree B N
2	4BD19EC096	Sanjana M
3	4BD20EC057	Rishika M K
	4BD20EC007	Anjali R
4	4BD20EC012	Arun Kulkarni
5	4BD20EC013	Basavaraj Mrutyunjay Doddamani
6	4BD20EC015	Bharatha B
7	4BD20EC033	Madhu D N
8	4BD20EC035	Manjunath Umesh Kudalagi
9	4BD20EC037	Manoj G H
10	4BD20EC050	Pavan Sepur A
11	4BD20EC053	Prathibha P
12	4BD20EC061	Sampada M
13	4BD20EC070	Soujanya B Uppin
14	4BD20EC090	Vyshnavi H K

- 15 students from VIII Semester are selected for **Microsoft Philanthropies Stage II training on Cyber Security** by ICT academy and is scheduled from 27th Feb to 7th March 2023.

Training on Cyber Security by ICT academy

- Placement Details till June 2023

Company	Number of Students
SLK	02
Tessolve	01
VIBs Infosol Pvt. Ltd.	01

FACULTY ACHIEVEMENTS / ACTIVITIES

- Dr. Kiran Kumar G H published Technical article titled **Deep Learning Approach for Detection of Dental Caries in X-Ray Images**, in IJSDR, Volume 8, Issue 6, June 2023.

- Dr. G S Sunitha and Dr. Prakash K M organized a workshop on **Self Reliance : Pathway to Architect your Career** with resource person Mr. Swami Krishnan, Director Mindmatrix under EDC, BIET in association with VTU CPC on 24th May 2023.
- Dr. Ganesh K attended BoE meeting at VTU Belgavi on 19th May 2023.
- Dr. Ganesh K was External Judge for P-EXPO-2023 Project Exhibition held at JIT, Davangere on 5th May 2023.

- Prof. Ashalatha M E and Shubha V Patel published article titled **Segmentation of Brain Tumor using Multiple Threshold Techniques** in IJHTI, Volume 2, Issue 1, January-April 2023.

- Dr. Banumathi K L was felicitated for completion of her Ph.D. on Women's day celebrated on 30th March 2023.

Felicitation to Dr. Banumathi K L on 30th March

- Mrs. Nirmala G accompanied I year students for Science Day held at IISc on 5th March 2023.

IISC visit on 5th March 2023

- Mr. Ali I K and Mrs. Sucharitha S D accompanied students of VIII semester to ISRO-ISTRAC on 28th Feb 2023.

ISRO Industrial visit

- Dr. Ganesh was Poet in 9th **Kannada Sahitya Smmelana** held at Hosa Belavanur, Davangere on 27th February 2023.
- Dr. G S Sunitha Member visited as VTU LIC Committee member to Central Manufacturing Technology Institute on 20th February 2023 and National Institute of Rock Mechanics and CSIR Fourth Paradigm Institute on 21st February 2023.
- Dr. Kiran Kumar G H was Reviewer in ICRTEC 2023 Conference held in NIE Mysuru on 10th and 11th February 2023.
- Dr. G S Sunitha and Dr. Ganesh K have attended the technical talk on **Cyber Security Foundation and Career Opportunities** on 7th January 2023 by Uday Shankar Puranik, Director for Data science and Cyber security, MGI, USA organized by CSE dept. in association with IQAC.

- Sri. Mahendrachari and Smt. Suman B S along with Dr. Ganesh K had accompanied students of III Semester to **Taralabalu Krushi Kendra**, Davanagere, regarding organic farming under UHV-1 on 3rd January 2023.

Organic farming under UHV-1 on 3rd January 2023

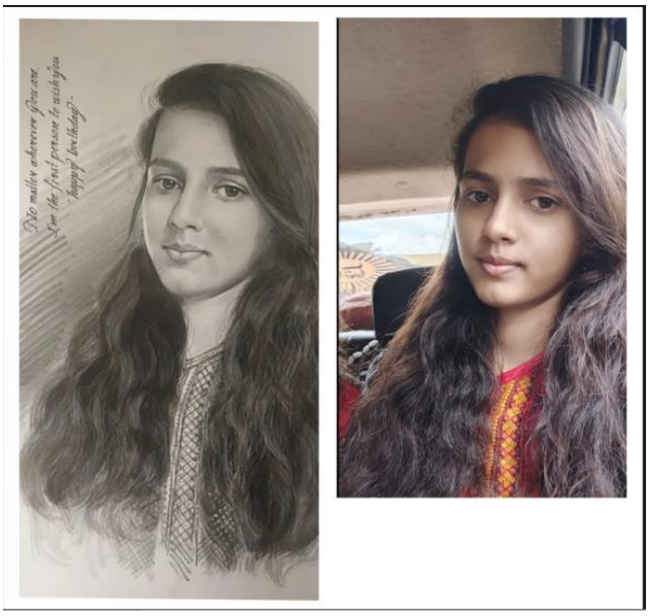
- Dr. B.M. Jayadevappa, Dr. Kiran Kumar G H, Smt. Vanishree H V and Poornima G N have attended the **Online FDP** on **Data science using machine learning, Pravara Engineering College, Pune** from 2nd to 6th January 2023.

- Dr. Kiran Kumar G H et.al. Published the paper on **Alveolar Bone Loss Detection and Localization in Dental X-Ray Images using YOLOv5 in AJCST Vol. 12, Issue** 1 Jan-June 2023.

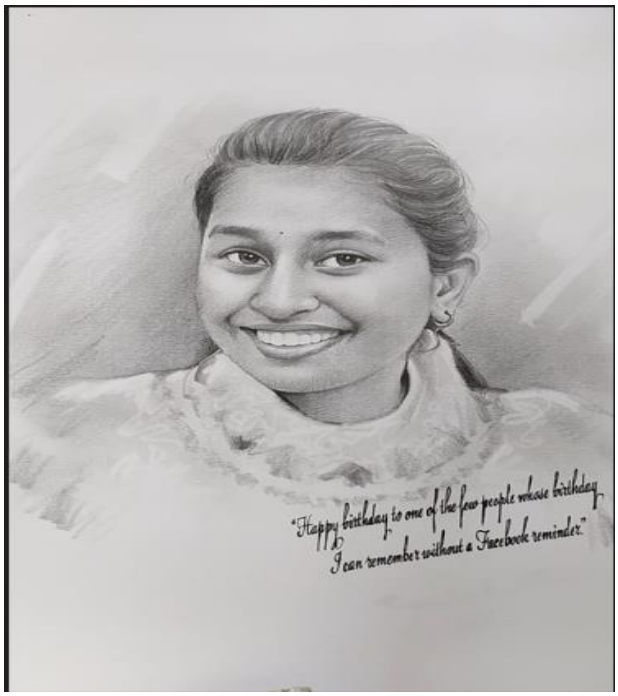
LITERARY CONTRIBUTIONS

By Prajwal S of IV Semester

By Prajwal S of IV Semester



By Prajwal S of IV Semester



By Prajwal S of IV Semester

ALUMNI CORNER

Shivakumar S Patil Alumnus of 1997

Scientist/Engineer SG, ISRO-U R Rao Satellite Centre, Bangalore

Shivakumar S. Patil is from Kudalasangam of Bagalkot district. He had finished his school education from Govt Kannada medium school at Kudalsangam. He completed his pre university education from Karnataka college, Dharwad in 1992. Then he completed his Bachelor of Engineering degree at this college Bapuji Institute of Engineering and Technology (BIET) Davangere in 1997 by securing 5th rank for Kuvempu University. He completed his Master of Engineering at Birla Institute of Technology (BIT) Ranchi, Jharkhand in 2007 by securing 1st rank.

Biography:

Sri. Shivakumar S. Patil joined Indian Space Research Organization (ISRO) as Scientist/Engineer 'SC' in 1998. Initially he worked as Reliability, Test and Evaluation engineer for Power Subsystem of ISRO satellites for about 10 years. During this time, he had contributed towards realization of Power Subsystem for about 30 to 40 satellites like INSAT-2E, INSAT-3A to 3E, TES, IRS-P5/P6, Cartosat-2A to 2E etc.,

Presently, he is Head of Power System Realization and Test & Evaluation Division (PSRD) of System Engineering and Manufacturing Group (SEMG). He is responsible for realization of Power Electronics subsystem for remote sensing, communication, scientific and Gaganyaan series spacecrafts. Most of this flight hardware is being delivered using the support from external industries.

He was also part of launch campaign for GSAT-17 communication satellite launched from French Guiana (Kourou) in 2017. He has participated many launch campaigns conducted at Indian space-port Shriharikota of AndraPradesh. He was instrumental in delivery of Power subsystem for the historical scientific missions namely Chandrayaan 1, 2 & 3, Mars Orbiter Mission (MOM) and Aditya-L1 satellites. The performance of all the subsystems in these missions is as expected and very satisfying. These satellites brought laurels to India and fellow Indians. The celebrations of these scientific missions success is overwhelming, heart touching and it is really a proud moment for every Indian.

He had received Team Excellence award for the successful launch of GSAT-12 satellite in record time. He had also received Glasgow AULD student award in 2007 by Institute of Engineers (Kolkata) India for securing highest marks in Master of Engineering. He has contributed about 10 technical papers in international/national journals and conferences.