

Newsletter

MAY
2023

"Adversity is that power which evaluates a man's true worth and takes him further."



VINAYAK DAMODAR SAVARKAR
(28 May 1883 - 26 Feb 1966)

"The practice of untouchability is sin, a blot on humanity and nothing can justify it."

Vinayak
Damodar
Savarkar



ARKA Educational & Cultural Trust (Regd.)

Jain Institute of Technology, Davangere

(A Unit of Jain Group of Institutions, Bangalore)



*Department of Electronics and
Communication Engineering*



Electro Infinity

Create, Enhance and Sustain



About the Department



*Dr. Santosh Herur
HOD, Dept. of ECE
JIT, Davangere*

Department of Electronics and Communication was started in the year 2011-12. The department emphasizes on imparting advanced technical knowledge in various fields like signal processing, VLSI Technology, Embedded system, wireless technology, microwave engineering, optical communication, and microelectronics and control systems. Highly qualified, experienced and dedicated staff members are the backbone of the department. Well equipped, sophisticated, precision and state of the art laboratories are centre of attraction in the campus. Another major strength of the department is its extensive collection of technical books, periodical and journals, ENCORE association of the department of E & CE aims at targeting innovations in the field of advanced communication and networking.

The Department has MOU with Karunadu Technologies Pvt. Ltd, Bengaluru, Abiyantrix, Soft Solutions, Davangere, Sai Tech, Mysore and PSN Hub IT consultancy services. The MOU organizations provide Internship training and conduct workshops on recent trends and organize seminars for the students to enhance their industrial exposure.

Editor's desk



Ms ANUSHA K
Assistant Professor
Dept. of ECE,
JIT, Davangere



Mr SUNIL M
Assistant Professor
Dept. of ECE,
JIT, Davangere

*Warm greetings to the readers of **Electro Infinity**!!*

We are pleased to share with you the May month issue of the newsletter for the year 2023 with a warm Heartfelt wishes to all the readers. We express our considerable gratitude and appreciation to everyone who have contributed to this Newsletter magazine. These contributions have required a generous amount of time and effort. It is this willingness to share knowledge, concerns and special insights with fellow beings that has made this magazine possible.

*Finally we would like to conclude with these words "Calmness in preparation but boldness in execution, this should be the watchword during the moments of crisis." – **Vinayak Damodar Savarkar, Indian Freedom fighter.***

Happy reading

Thank you
ANUSHA .K
SUNIL .M

Vision of the Department

Endeavours to achieve academic excellence by providing value based education to the students of Electronics and communication engineering and enable them to meet the ever changing needs of the society.

Mission of the Department

- ❖ *To emphasize on student focus learning environment.*
- ❖ *To prepare graduates who surpass in the engineering career, qualified to acquire technical knowledge and ethical values.*
- ❖ *To provide a platform to inculcate team spirit and leadership qualities to succeed in professional career.*

Program Specific Outcomes (PSOs)

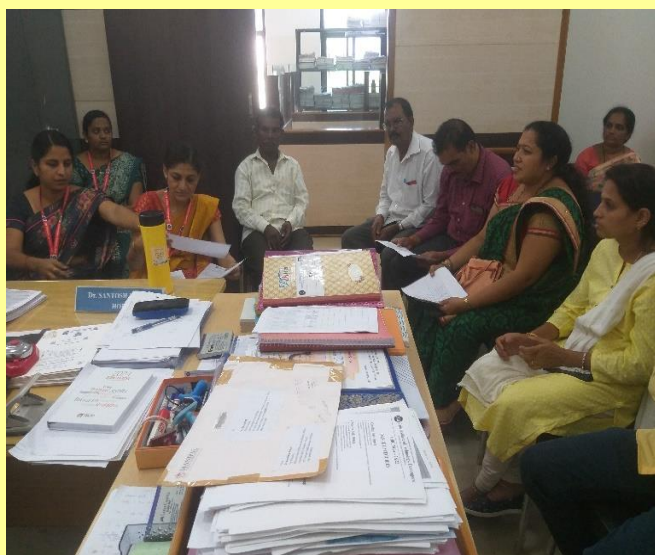
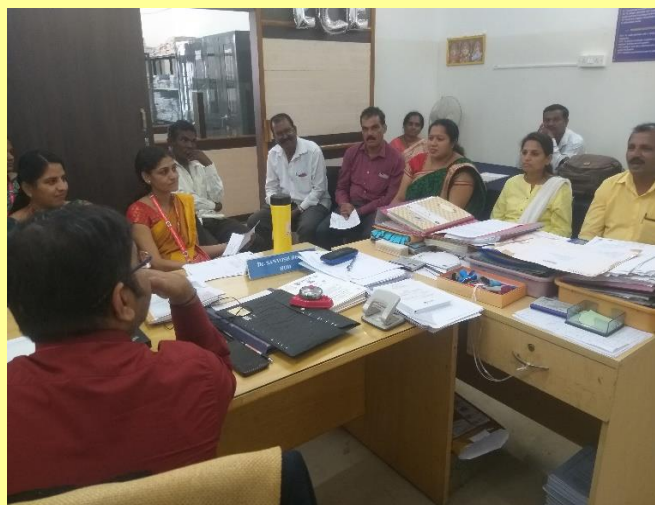
- ❖ *PSO1: Analyze, simulate and design electronic and communication circuits for given specifications.*
- ❖ *PSO2: Design and test processor based systems*

Program Educational Objectives (PEOs)

- ❖ *PEO1: To create graduates with a strong base in Electronics & Communication Engineering.*
- ❖ *PEO2: To produce technically competent graduates with the ability to understand, analyse & develop electronic systems.*
- ❖ *PEO3: Ability to work with professional ethics and as a team member to realize the goals of the projects.*
- ❖ *PEO4: Excellence in professional career by attaining higher education.*

Parent's Meeting: 6th Semester

4th May 2023



A Parent's meeting was arranged by the department of ECE for 6th semester students. In the meeting, Dr.Santosh Herur, HOD, Dept. of ECE, addressed the parents and briefed them about the academic status of the students. He also highlighted on the placement and internship trainings providing at the college and asked the parents to keep followup with students regarding placement activities. Prof. Deepthi G B, Dept., Placement coordinator gave report about student's participation in the online aptitude and softskills training provided by the college TPO. The parents also discussed with the faculty members and gave their valuable suggestions. All the 6th semester handling faculties and counsellors were present during the meeting.

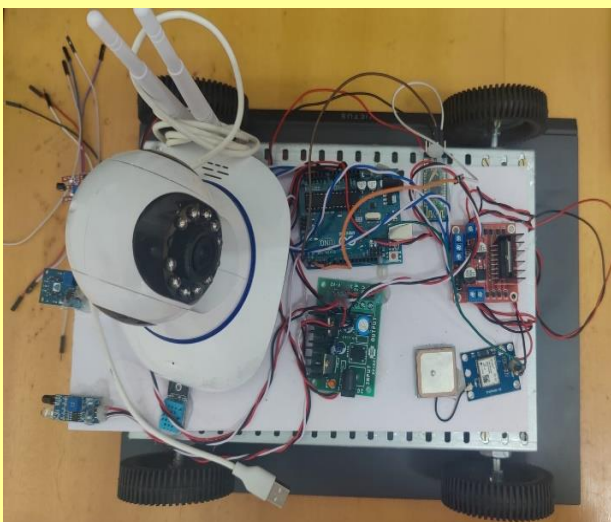
Project Exhibition: P-EXPO-2023

5th May 2023

P-EXPO-2023, A Project and Product Exhibition was organized at JIT. All the final year students of ECE Department actively participated and displayed their projects with physical models and exhibited posters. A Total of 14 teams participated in the event.

Dr. Ganesh K, Assistant Professor, Dept. of ECE, BIET, Davangere has been invited as the external examiner for the evaluation of projects. He appreciated the efforts of the students and encouraged them.

Dr. Ganesh D B, Principal & Director, JIT and **Dr. Santosh Herur**, HOD, Dept. of ECE were also examined the student's projects.



Among all the projects exhibited, the following **Two projects** were ranked as first and second by the Evaluator.

First Place:

The Project work entitled **“Quadcopter for modified transport system in villages with unlimited range”** presented by Mr. Sahil khan S J and Mr. Subramanya B S Under the guidance Mr. Sharanabasaveshwara H B, Assistant Professor, Dept. of ECE has got First place in the exhibition.



Second Place:

The Project Work entitled **“Crop recommendation using IoT and Machine Learning”** presented by Ms. Anusha D J, Ms. Sunidhi K R, Ms. Trupthi G G and Mr. Kiran Kumar K M Under the guidance of Ms. Anusha K, Assistant Professor, Dept. of E&CE has got Second place in the exhibition.




Photo Session for Final Year Students




Student's Achievement

9th May 2023



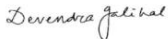
Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)




This certificate is awarded to
SUVARNA KOPPAD
for successfully completing the course
Python for Data Science
with a consolidated score of **60** %



Online Assignments	20.67/25	Proctored Exam	39.25/75
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Total number of candidates certified in this course: **4711**


Prof. Devendra Jaliha
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2023
(4 week course)


Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

**Indian Institute of Technology Madras**

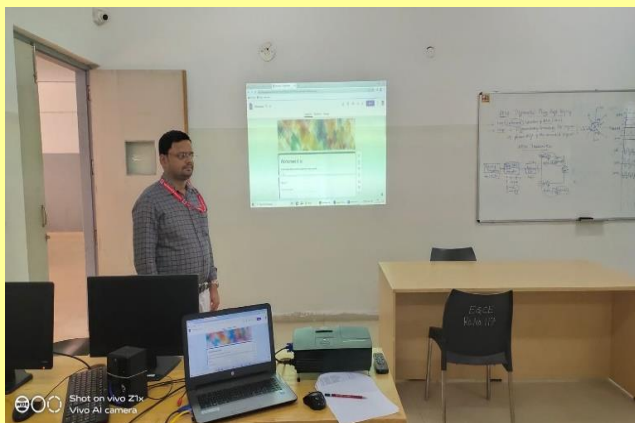
Roll No: NPTEL23CS21S34400035To validate the certificateNo. of credits recommended: 1 or 2

Suvarna Koppad student from 3rd sem, E&CE department has successfully completed 4 week NPTEL Online Course on “Python for Data Science” awarded with Elite NPTEL online certification (Funded by the MoE, Govt. of India). Hearty Congratulations to the student on achieving Good Milestone on behalf of College Management, Principal, HOD, Teaching and Non-teaching staff .

INTERNSHIP TRAINING FOR 3rd SEM LATERAL ENTRY STUDENTS

Session on Document & Poster Preparation using MS Word & Google Form Sites.

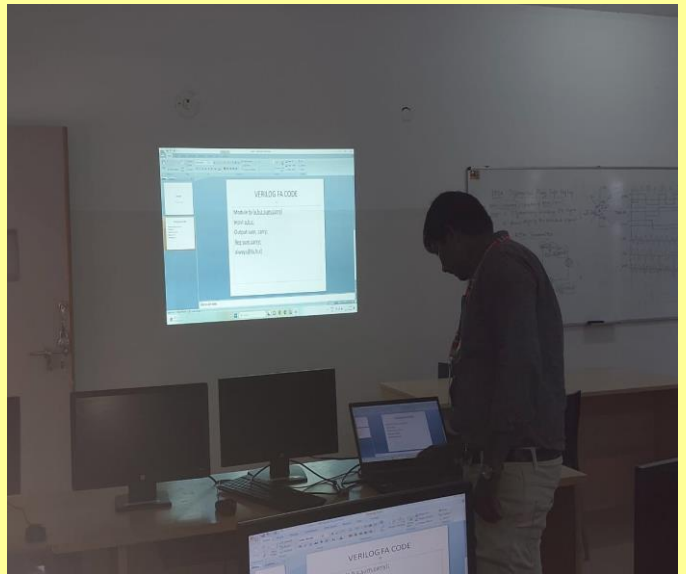
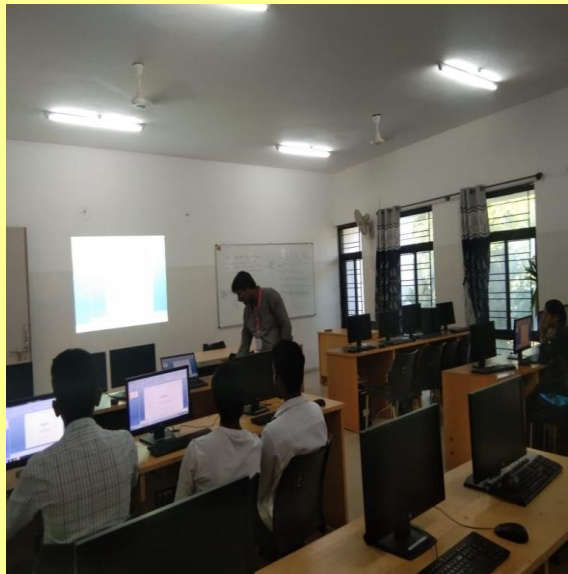
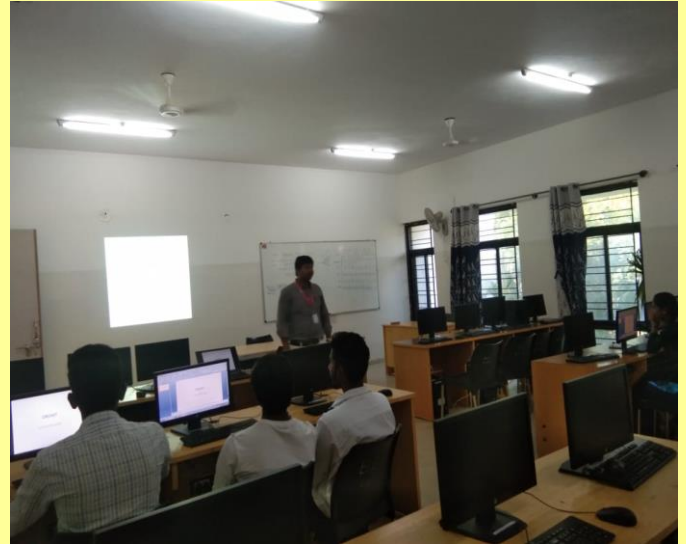
16th May 2023



A Session on Document and Poster Preparation was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Ravikumar K I**, Assistant Professor, Dept. of ECE was the Resource Person for the Session. He enumerated on the features and uses of Microsoft Word. He also highlighted on the preparation of the Resumes, Letters, Reports, Poster using MS Word & also on how to create Google forms. A total of 06 students attended the session.

Session on Powerpoint Presentation & VLSI.

17th May



A Session on Powerpoint Presentation & VLSI was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Sharanabasaveshwara H B**, Assistant Professor, Dept. of ECE was the Resource Person for the Session who highlighted the usage of MS Powerpoint and Presentation skills & also Introduced VLSI basics to the students. A total of 07 students attended the session.

VTU 3rd Semester Results



1st Topper
Sudeep Reddy K
(86.87%)



2nd Topper
Sindushree M J
(85.87%)



3rd Topper
Akshatha H
(85.87%)



3rd Topper
Chandrika N S
(85.87%)

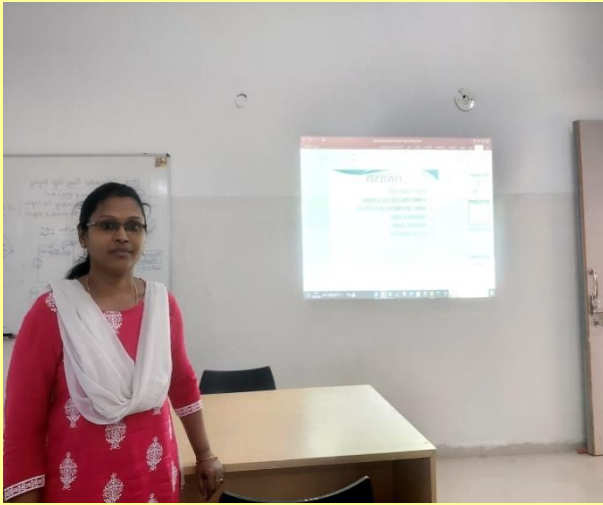


3rd Topper
Lingaraj B
(85.87%)

VTU Examination results are announced for **3rd semester**. Hearty congratulations and best wishes for topper's from College Management, Principal, HOD, Teaching and Non-teachning staff Members.

Session on MS Excel & Digital Circuits

18th May 2023



A Session on MS Excel was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mrs. Pushpalatha O**, Assistant Professor, Dept. of ECE was the Resource Person for the Session. She enumerated on the features and uses of Microsoft Excel. She highlighted on the data formatting and usage of formulae, creating tables, charts using Excel and also Basics of Digital Circuits. A total of 08 students attended the session.

Session on Computer Hardware

19th May 2023



A Session on Computer Hardware was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr.Kotresh K**, Instructor, Dept. of ECE explained about the computer hardware, dismantled the CPU and explained the different parts of CPU. A total of 08 students attended the session.

Internship Training- Basics of Embedded Systems and Arduino

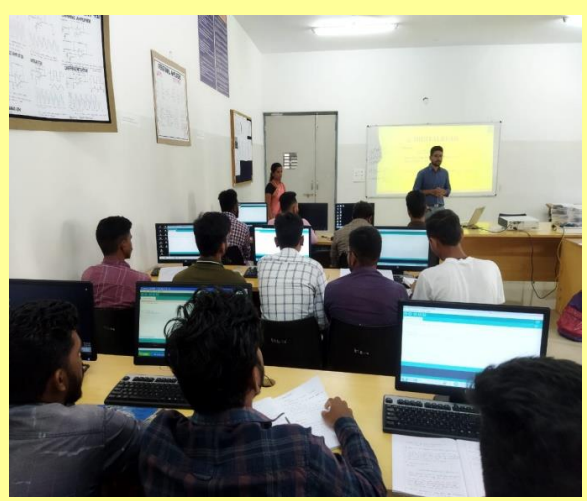
22nd May 2023



A Session on **Basics of Embedded Systems, Introduction to Arduino and Its Programming** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere gave introduction about basics of Embedded system, its application areas with real life examples and briefed about different types of microprocessors and microcontrollers. He also gave introduction to Arduino , its types ,Arduino software installation and programming.

Internship Training- Arduino Basics and Programming

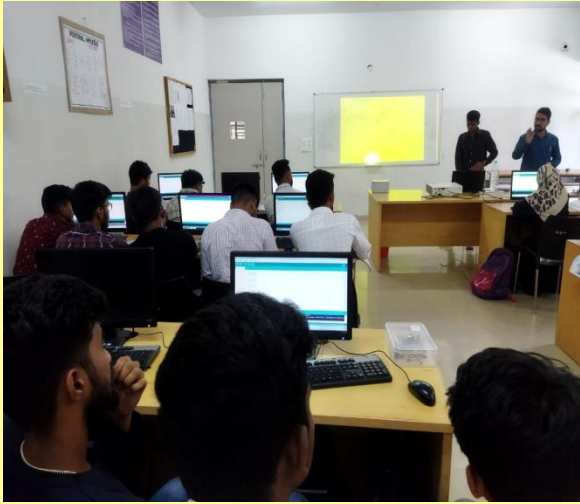
23rd May 2023



A Session on **Arduino Basics and Programming** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He explained the Arduino programming syntaxes, registers, Arduino software and hardware communication settings. Also illustrated Arduino Blink LED project and other basic projects using Arduino.

Internship Training- C Programming.

24th May2023



A Session on **C Programming** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He explained the basics of C programming, its syntaxes, different loops ,conditional statements and control commands used in C and also illustrated some basic programs using C Programming.

Internship Training- Embedded Programming

25th May 2023



A Session on **Embedded Programming** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He explained about the basics of Embedded programming, sensors, ports and also illustrated some of the basic projects like counter program, two input- two output using Embedded Programming.

Internship Training- Arduino Programming

26th May 2023



A Session on **Arduino Programming** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He explained about the basics of Arduino programming and illustrated some of the basic Arduino projects like LCD interfacing, LCD scrolling display using C, LCD print Hello World etc and solved some assignments on C Programming.

Farewell Function – 2023 Output Batch

27th May 2023





Department of Electronics and Communication Engineering organized a **Farewell Function** for the final year students at JITD Auditorium. **Mr. Pavan Kumar H B**, Cyber Security Specialist & Alumni of ECE invited as chief guest for the event. **Dr. Ganesh D B**, Principal & Director, JIT presided over the function. **Dr. Prakash M Walavalkar**, Dean, Training and Placement, JIT, invited as the guest of Honour. **Dr. Santosh Herur**, HOD, Dept. of ECE, **Mr. Sharanabasaveshwara H B**, Forum coordinator, Dept. of ECE also chaired the stage.

All the dignitaries inaugurated the function by watering the plant. Mr. Pavan Kumar H B addressed the students and guided them to choose better career in the domain of individual's interest. Dr. Prakash M Walavalkar, Dean, Training and Placement, congratulated the students and encouraged them to make best use of placement training providing by the college.

Dr.Santosh Herur, HOD, Dept. of ECE gave an overview about student's participation in academics and co-curricular activities and wished the best for their career and profession. Mr. Sharanabasaveshwara H B, Forum coordinator presented a report on forum activities conducted in the department. Dr.Ganesh D B, Principal & Director, JIT gave presidential remarks and wished the best for all outgoing students and asked students to be in association with the college and also assured all support from the institution for their future endeavours.

Academic toppers, placed students, winners of forum events, Placement coordinators, Forum representatives and class representatives were felicitated. A memento was presented to all the final year students. Final year student, **Chandana G P** awarded as Best outgoing student of the year. All the Teaching and Non-teaching staff members, 2nd and 3rd year students of the department were present during the event.

Student's Achievement



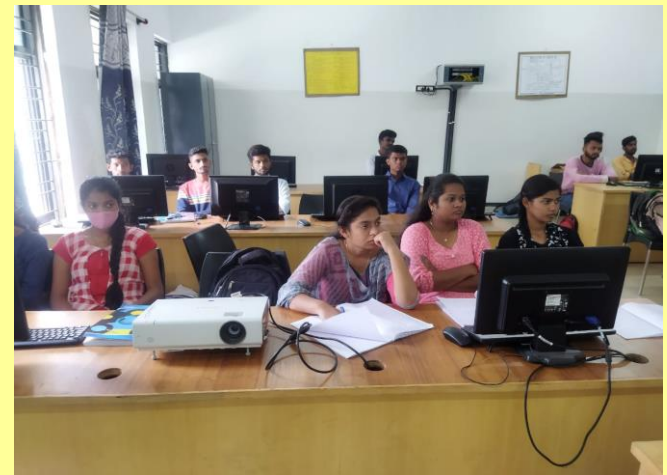
6th semester students of ECE Department participated in **MELANZE-2023**, A National level Techno Cultural Fest organized by TORQUE Association, Dept. of ME,SKSVMACET, Lakshmeshwar, Gadag.

Manjunath M, Akash G J, Anith Baba A, Sagar M G, Karibasaiah T M participated in **Group discussion** event of MELANZE-2023 and **Manjunath M Secured 2nd place** in the event and won a prize amount of Rs.800.

Mallikarjun M and Varun K participated in **Paper presentation** event and presented a paper titled **"IoT Driven Automation"** under the guidance of **Mr.Ravirayappa**, Assistant Professor, Dept. of ECE. Hearty congratulation to all the participants.

Internship training- Arduino Programming

29th May 2023



A Session on **Arduino Programming** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He illustrated some of the basic projects using Arduino like Analog read function to read input devices, Analog Write function to control output ,Interfacing LM35 Temperature sensor to control fan and buzzer,LDR Interfacing to control LED brightness etc.,

Student's Achievement

30th May 2023

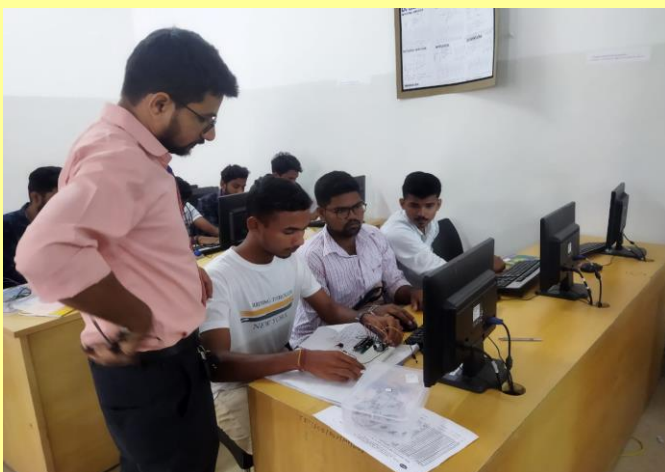


Manjunath M and Bharath B P of 6th sem ECE participated and won **2nd prize** in the **COGNITION**, a state level Project Exhibition held at BIET, Davangere on their mini-project titled ” **Robust motion detection using deeplearning in computer vision**” under the guidance of **Dr. Santosh Herur**, HOD, Dept. of ECE. The students won a cash prize of Rs. 500.

Prathibha M H of 6th sem ECE participated and won **Consolation prize** in the **PAPYRUS**, a state level Technical paper presentation event held at BIET, Davangere on presenting paper titled ” **A convolutional neural network-based method for early prediction of covid-19 from chest X-rays**” and got a cash prize of Rs. 350. Hearty congratulations and best wishes to all the participants.

Internship training- Mini-Projects using Arduino

31st May 2023



A Session on **Mini Projects using Arduino** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He demonstrated some of the mini-projects using Arduino namely, Temperature monitoring system, Distance measuring using ultrasonic sensor.

Student's Achievement

31st May 2023

VTU 8th Semester CBCS Results for May 2023 Examinations have been released for all regions on 30th May 2023. Department of Electronics & Communication Engineering has achieved remarkable passing percentage of **94.33%** in 8th semester results. **ARPITHA K R and BHAVANA T M** has secured 1st place with 89.2%, **KAVYA JAIN A and VIMARSHA S P** has secured 2nd place with 88.6% and **TRUPTHI G G** has secured 3rd place with 87.4%. Hearty Congratulations to all the toppers of E&CE Department on behalf of College Management, Principal, HOD, Teaching and non-teaching staff members.



ARPITHA K R
(4JD19EC005)
89.2%



BHAVANA T M
(4JD19EC009)
88.6%



KAVYA JAIN A
(4JD19EC017)
89.2%



VIMARSHA S P
4JD19EC050
(88.6%)



TRUPTHI G G
4JD19EC048
(87.4%)

Internship training- Mini-Projects using Arduino

31st May 2023



A Session on **Mini Projects using Arduino** was conducted in the Department of Electronics and Communication Engineering for the 2nd year Lateral entry students as a part of their Internship training. **Mr. Shivaraj V. S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was the resource person for the session. He demonstrated some of the mini-projects using Arduino namely, Pulse width modulation in arduino , Car reverse parking using ultrasonic sensor and buzzer, Line following robot without pwm and Line following robot with pwm etc.,

Internship Valedictory Programme for Lateral Entry Students

31st May 2023

An Internship Valedictory Programme for Lateral entry students was arranged in the department of ECE. **Mr. Shivaraj V S**, Product Application manager, Abeyantrix Softlab OPC Pvt. Ltd., Davangere was invited as the chief guest for the function. **Dr.Santosh Herur**, HOD, Dept. of ECE, **Mrs. Preetha P S**, Assistant Professor, Dept. of EEE were present during the function. **Mr.Ravikumar K I**, Assistant Professor, Dept. of ECE presented a report on the Internship training conducted from 17-05-2023 to 31-05-2023. Internship Certificates were distributed to the students of ECE and EEE department. The students shared their experience and opinion about internship training. All the Teaching staff and Non Teaching staff members of ECE and EEE department were also present during the function.



