

Newsletter

JANUARY
2024

"If am anything,
which highly
doubt I have
made myself so
by hard work."



"My power are
ordinary. Only
my application
brings me
success."

Sir Isaac
Newton



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
Professor & Head
Dept. of E&CE
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



Mrs ANUSHA K
Assistant Professor
Dept. of E&CE,
JIT, Davangere



Mr SUNIL M
Assistant Professor
Dept. of E&CE,
JIT, Davangere

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

We are pleased to share with you the January issue of the newsletter for the year 2024 with a Heartfelt New-year and Republic Day wishes. 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 We build too many walls and not enough Bridges– Sir Issac Newton, Father of Physics

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.*

A Webinar on "Mastering Cloud Database Management & Seamless Data Integra"

08/01/2024

JGI Jain Institute of Technology, Davangere
(A Unit of Jain Group of Institutions, Bangalore)
Approved by AICTE, & UGC under 2F, New Delhi
Affiliated to VTU, Belagavi, Recognised by Government of Karnataka

Webinar on
Mastering Cloud Database Management & Seamless Data Integra

Organized by
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Online Registration **FREE** | **9AM** | **YouTube Live**

Organizers
Prof. Ravikumar K I
Prof. Anusha K
Prof. Anusha T S
Prof. Shilpa M

Resource Persons
Manu K M
Technical Lead, HCL Technologies
Punith Kumar H J
IT Analyst, Tata Consultancy Services
Amruth H Handral
Technical Account Manager
Check Point Software Technologies, Ltd.

Dr. Santosh Herur
Professor & Head
Dept. of E&CE, JITD

Dr. Manjappa Sarathi
Advisor
JIT, Davangere

Dr. Ganesh D B
Principal & Director
JIT, Davangere

For any Queries: +91-9916247923 | ravikumark@jitd.in | DO REGISTER FOR FREE & GET CERTIFIED

A screenshot of a Zoom meeting interface. The main window shows a grid of video thumbnails for participants. On the right, there is a 'People' sidebar with a search bar and a list of participants including Anusha K (You), Adarsh Sa, Akshatha H, Amruth Handral (Meeting host), Amruth, Ananya Venkatesh, and Arith Suba A. The meeting title at the bottom is 'Webinar on Mastering Cloud Database Manage...'. The time shown is 9:28 AM.

A screenshot of a Zoom meeting showing a slide titled "What Happens When You Type a URL into a Browser?". The slide is from a blog by bytebytego.com and contains a detailed diagram of the browser request-response cycle. The diagram is divided into three main sections: 1. Request: Look up IP address (DNS), Resolve IP address, and Establish connection (TCP). 2. Send Request: HTTP GET request. 3. Handle Response: Receive response (HTTP 200 OK), Parse response (HTML, CSS, JS, etc.), and Render page. The diagram also shows the flow of data between the browser, the local cache, the DNS server, the web server, and the browser's cache. The meeting interface shows Amruth Handral as the presenter.

A screenshot of a YouTube live stream interface for the webinar. The main video player shows a slide titled "APPLIED CONNECTIVITY". The chat window on the right contains several messages from participants, including requests for certificates and feedback. The video title is "Mastering Cloud Database Management & Seamless Data Integra". The channel name is "RAVIKUMAR K I".

A Webinar on “**Mastering Cloud Database Management & Seamless Data Integra**” was organized by the Department of Electronics & Communication Engineering on 07th January 2024 in Online mode. The Alumni’s of E&CE, **Mr. Amruth H Handral**, Technical Account Manager, Check Point Software Technologies, Ltd., Bangalore, **Mr. Punith Kumar H J**, IT Analyst, Tata Consultancy Services, Bangalore and **Mr. Manu K M**, Technical Lead, HCL Technologies, Bangalore were the Resource Persons of the Webinar.

Dr. Santosh Herur, Professor & Head, Dept. of E&CE addressed the participants regarding industry demands of Cloud computing and its career in IT. He also asked student’s to get practical exposure to such booming technologies by making best use of this webinar. All the Resource persons conducted different sessions on Cloud Computing, Data Base Management and Data Integration. During the Sessions they briefly explained about the trending tech topics like Cloud Computing, Cloud services, AWS,DNS Servers, SQL, its Architecture, Enterprise Integration, its Architectures, API’s etc,. They also conducted hands-on session on data integration using Anypoint Software. Assignments were given and a online Quiz was conducted for the participants.

Prof. Ravikumar K I, Prof. Anusha K, Prof. Anusha T S and Prof. Shilpa M organized this webinar. Over 250 Participants from Jain Institute of Technology, Davangere, Hubli, Belgaum, Nagarjuna College of Engineering and GMIT attended the webinar through Google meet and YouTube Live. Online Certificates were made to send to all the attendees. The webinar got a total of 588 views in YouTube Live.

Faculty's Participation

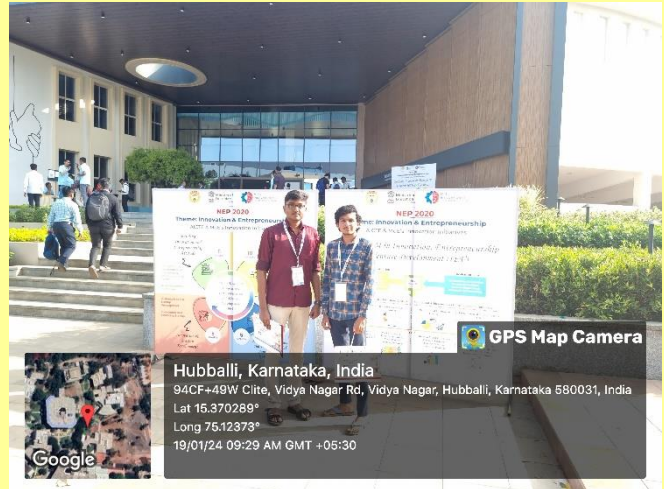
17/01/2024



Mrs. Savita Mamadapur and Mr. Sharanabasaveshwara H B, Assistant Professor, Dept. of E&CE has Participated in the High-End-Workshop sponsored by DST-SERB under Accelerate Vigyan Scheme on “Recent Trends on Applied Machine Learning for Speech and Bio-Signal Processing” held during 02nd to 07th January 2024 at the Indian Institute of Information Technology, Dharwad.

Student's Participation

19/01/2024.



Two teams from Department of E&CE, under the guidance of Dr. Santosh Herur, Professor & Head, Dept. of E&CE and Dr. Ravirayappa, Associate Professor, Dept. of E&CE, Participated and Presented their ideas in **Yukti, Innovation/idea Challenge** at KLE University, Hubli.

JIT Celebrates Lord Sri Rama Prathistapana at Ayodhya.

22/01/2024



On the Occasion of Lord Sri Rama Prana Prastistapana at Ayodhya, the students and staff members of Jain Institute of Technology celebrated this special day at College by offering pooja to Lord Sri Rama and lightening Diya's in college campus. Sweets were distributed and annasantarpana was arranged by the students to remark this day. Dr. Ganesh D B, Principal & Director, Dr. Manjappa Sarathi, Advisor, JITD, Deans and heads of various departments, Teaching and Non-teaching staff members and students were present to witness this auspicious day.

JITD in Media.

29/01/2024



Jain Institute of Technology, Davangere Students Innovative Projects Exhibition at KLEIT, Hubli,
In Janthavani newspaper.

A Visit to Aikanthika Natural Farm





3rd semester students of E&CE and ISE visited to Alkanthika Natural Farm, In connection with Organic farming and waste management of SCR course at Mallanayaka village, Coordinated by E&CE, ISE & NSS Unit on 24/01/2024. An enthusiastic educator on the many advantages of adopting organic and natural agricultural methods, Mr. Raghava is a supporter of natural farming. He underlined how chemical farming harms ecological balance overall, water supplies, and soil health. The need of implementing sustainable alternatives to guarantee a more robust and healthy agricultural system was covered in detail throughout the session. The engaging programme also encouraged pupils to make educated food choices by focusing on the lifestyle modifications needed to support organic farming.

Mr. Raghava emphasised on how important it is to choose organic, locally grown vegetables in order to lessen carbon emissions and encourage a healthy diet. The topic of developing one's skills in natural farming was one of the session's main points. He also encouraged students to think about the possibilities of becoming entrepreneurs in this rapidly growing industry by providing insights into the many talents needed to thrive in organic agriculture. Prof. Sharanabasaveshwara H B, Prof. Rajeshwari H M, Prof. Saraswathi, Prof. Vinutha, Coordinated the visit.

Patent Granted

29/01/2024



Mr. Sharanabasavehwara H B, Assistant Professor, Dept. of E&CE is delighted to announce that he has been granted an Indian patent for his innovative creation: **The Gaze-Controlled Electric Iron Box**. This groundbreaking invention represents a culmination of dedication, ingenuity, and a deep commitment to advancing technology. By harnessing the power of gaze control, this iron box revolutionizes the way we interact with everyday appliances, offering unparalleled convenience and efficiency. This patent not only recognizes the uniqueness of the product but also underscores its potential to transform households worldwide. I am immensely proud of this achievement and excited about the possibilities it holds for enhancing the lives of individuals everywhere.

I would like to thank the Principal, Dr. Ganesh D B, HoD of E&CE Department, Dr. Santosh Herur and all my dear staff and student fraternity for giving me an opportunity to work on my patent.



(12) PATENT APPLICATION PUBLICATION	(21) Application No.202041046240 A
(19) INDIA	
(22) Date of filing of Application :23/10/2020	(43) Publication Date : 30/10/2020
(54) Title of the invention : GAZE CONTROLLED ELECTRIC IRON BOX	
(51) International classification :G06F 3/01 NA 5/00-SOMASHEKHAR K	(71)Name of Applicant : 1) Dr. NAGARAJA B.G. Address of Applicant :DEPT. OF E&CE, IAIN INSTITUTE OF TECHNOLOGY, DAVANGERE-577003, Karnataka India 2)Dr. ARUN KUMAR G 3)Dr. SPOORTI J JAINAR 4)Dr. RAJASHEKHAR B SOMASAGAR
(31) Priority Document No :NA	5)Dr. SOMASHEKHAR K
(32) Priority Date :NA	6)Mr. VIKAS C. VATNALLI
(33) Name of priority country :NA	(72)Name of Inventor : 1)Dr. H. S. JAYANNA
(36) International Application No :NA	2)Dr. C.N. PATIL
Filing Date :NA	3)Dr. GEETHASHREE A.
(37) International Publication No :NA	4)Mr. SHARANABASAVESHWARA H B
(61) Patent of Addition to Application Number :NA	5)Dr. BASAVARAJ G M
Filing Date :NA	6)Dr. T. C. MANUNATH
(62) Divisional to Application Number :NA	7)Mr. VIKAS C. VATNALLI
Filing Date :NA	8)Dr. SOMASHEKHAR K
	9)Dr. RAJASHEKHAR B
	10)Dr. SPOORTI J JAINAR
	11)Dr. ARUNKUMAR G
	12)Dr. NAGARAJA B.G.
(57) Abstract : The proposed invention generally relates to the design and development of a gaze controlled electric iron box circuitry to avoid accidental burning of clothes during clothes ironing or clothes pressing process. The operation of the iron box circuitry involve the process of continuous monitoring of positions, movements, and user attentions associated with the iron box during the process of ironing or pressing. The iron box circuitry automatically controls or disables the power supply to the iron box if any discrepancy is found in combination with the said position, movement, and user attention associated with the iron box to avoid the accidental burning of the clothes.	
No. of Pages : 17 No. of Claims : 10	
The Patent Office Journal No. 44/2020 Dated 30/10/2020	
55399	

Student Achievement

31/01/2024



Mr. Kiran Kumar S H, 5th Semester student from Electronics and communication Engineering Department, Attended Linked-in Learning Campus Ambassador Program in Linked-in Head-office, Bengaluru on 29/01/2024. And Successfully Completed Linked- in Campus Ambassador Program, and Became Certified Linked-in Learning Campus Ambassador for our college. Dr. Ganesh D.B, Principal and Director, Dr Prakash M Walavalkar, Dean-Training & Placement Cell, Dr. Santosh Herur, Professor & Head, Department of ECE. Dr. Rajendra Soloni, Associate Professor, Department of ECE, Congratulated him for his achievement.