



Arka Educational and Cultural Trust ®
JAIN INSTITUTE OF TECHNOLOGY, DAVANGERE-577 003
(A Unit of Jain Group of Institutions, Bangaluru)



JIT,EEE News Letter

BI ANNUAL FEBAVARY 2022 - JULY 2022

Visit us at: www.jitd.in

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Department of Electrical and Electronics Engineering

“VISION”

“To create technically superior, highly competent, ethically strong and socially responsible Electrical and Electronics Engineers with innovative and entrepreneurship qualities.”

“MISSION”

To impart excellent Electrical and Electronics Engineering Education by providing Innovative teaching, career focused education and experiential learning.

To create an environment for innovative thinking and contribute to the advancement of science and technology to meet the ever changing needs of society.

To provide student centric platform to produce socially responsible, competent engineers and entrepreneurs with ethical standards.

EDITORIAL TEAM

Prof. Pradeep Kanavi, Assistant Professor

Mr. Sandeep Patil M S, Instructor

PROGRAM OUTCOMES

- An ability to apply knowledge of mathematics & science to electrical engineering.
- An ability to identify, formulate and solve complex electrical engineering problems.
- An ability to design electrical systems to meet desired needs with appropriate considerations for public health and safety.
- An ability to use research based knowledge to design and conduct experiments.
- An ability to use techniques, skills and modern electrical engineering tools like MATLAB, CAED, etc. for engineering practice.
- To understand the impact of engineering solutions in a global, economic, and societal contexts.
- Understand the impact of the electrical engineering solutions in environmental contexts & demonstrate the knowledge for sustainable development.
- An understanding of professional and ethical responsibility.
- An ability to function on multidisciplinary teams.
- Ability to communicate effectively with the engineering community and with society.
- Develop an appreciation for principles of managerial skills and entrepreneurship.
- Ability to develop confidence for self-education and to understand the value of life-long learning.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- ♦ To become the resource of Electrical and Electronics engineering.
- ♦ To work in multidisciplinary areas involving core engineering and engaged.
- ♦ To be successful in taking leadership roles and entrepreneurial positions.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- ♦ Apply the knowledge of mathematics, Science and electrical engineering fundamentals to solve complex problems in electrical machines, control systems, power systems and electronics.
- ♦ Specify, architect and analyze power systems that efficiently generate, transmit, distribute and utilize electrical power in the present context.
- ♦ Analyze, design & maintenance of modern electrical drives system and modern lighting system to conserve electrical energy.

Message from the Principal



It's my pleasure to introduce this latest issue of the JIT, EEE Newsletter. I would like to congratulate Editorial team for bringing out a beautiful and informative EEE newsletter which has showcased the various activities, events in the department, and the achievements of students. and faculties. I look forward to achieve greater heights in the years to come.

Dr. Ganesh D B
Principal & Director, JIT, Davangere



Message from the Head of the Department

Welcome to the Department of Electrical and Electronics Engineering at JIT Davangere. We started our journey in the year of 2011 with an intake of 60 students. The department has full-fledged laboratories as prescribed by VTU syllabus with modern equipment's. We have grown our expertise ,competence

Core Electrical and Electronics Engineering curriculum and research. We have a strong undergraduate program in Electrical and Electronics Engineering in B.E. We conduct many activities throughout the academic year like Workshops, Seminars, technical talks, skill enhancement programs and other co-curricular activities under the department Form "POTENZA" .We are happy to bring out our department EEE newsletter, which showcases all the activities of the department. I congratulate the team for their continuous effort.

Dr. Santosh M Nejakar
Associate Professor & Head,
Dept. of Electrical & Electronics Engineering,JIT

"World Water Day" in EEE Dept..

25th March 2022



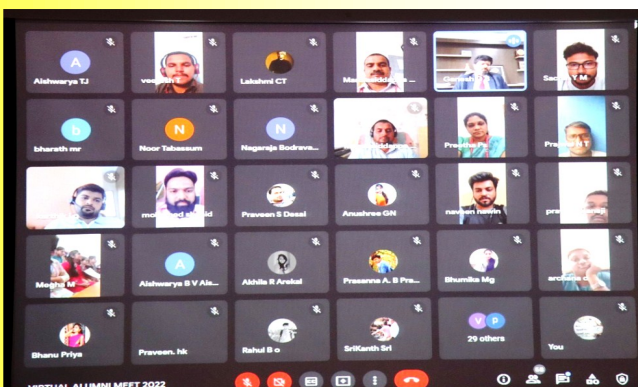
Dept. of EEE Forum Potenza Conducted "Water day" on March 25th 2022 in the EEE Seminar Hall. The chief guest Dr. Ganesh D B, Principal and Director, who spoke about the importance of water, World Water Day celebrates water and raises awareness of the 2.2 billion people living without access to safe water. It is about taking action to tackle the global water crisis. Dr. Santosh M Nejakar HOD EEE, Staff and students from EEE dept. were present in the function.

“Swatch JIT” Abhiyaan 7th March 2022



Swatch Bharat campaign was administered by the Indian government and was introduced by the Prime Minister, Narendra Modi. As of social responsibility Students of Electrical and Electronics engineering department participated in “Swatch J IT” abhiyaan organized by the Prof. Veeresh, NSS Unit Coordinator JIT, Prof. Shwetha J, EEE Dept. NSS Coordinator NSS unit, JIT Davanagere.

Virtual Alumni Meet - 2022 9th April 2022



Department of Electrical & Electronics Engineering, JITD organized Virtual Alumni Meet-2022, Principal Dr. Ganesh D B and HoD Dr. Santosh M. Nejekar addressed the gathering and highlighted the importance of Alumni Meet & NBA. Many alumni shared their Views, experiences

and interacted with final year students. Alumni guided final year students about career opportunities and challenges that they face in industries and how to get prepared to face the challenges. The interaction was good and students of final year gain the best of this platform. Alumni Coordinator Mr. Praveena Anaji organized well and final year Student Miss. Adithi S Renke hosted the occasion. All the department staffs were actively participated in the Interaction.

“Placement Boot Camp” 26th May 2022



Department of EEE was organized one day “Placement boot camp” for 6th semester students. Principal Dr. Ganesh D B, Placement Office Mr. Prakash C H and Dr. Santosh M Nejekar Professor and Head of the Department addressed the gathering and motivated the students. Placement Coordinator Mrs. Shwetha J guided the students regarding placement activities also conducted group discussion session and group activities for the students. Mrs. Umarani T G, Assistant Professor, EEE department conducted a session on effective resume building. Mrs. Sujata Eresimi, Assistant Professor, conducted a session on Aptitude skills.

NDLI (NATIONAL DIGITAL LIBRARY OF INDIA) USER AWARENESS PROGRAM'

28th April 2022



Department of Electrical & Electronics Engineering & Department of Library was organized “NDLI User Awareness Program” under NDLI Club, JIT for EEE department staffs and students.

National Digital Library of India Club (NDLI Club) is an enabler of career progression for students, job seekers, researchers and briefly about the information of NDLI club and its usage to all the audience. Audience cleared their doubts about the usage of NDLI club website. JIT Librarian Ms. Renuka B.C suggested the students to make best utilization of facilities in NDLI website. Placement officer Mr. Prakash participated and addressed the students. EEE dept. HOD Dr. Santosh M. Nejekar, Staffs and the students participated in the program.

KANNADA KAVI GOSTI

27th March 2022



Mr. Marulasiddappa H B , Assistant professor, EEE department participated in the event Kavi gosti- 11th Zilla Kannada Sahitya Sammelana held in Elebethur, Davanagere District on 27th March 2022. He presented Kavana with the title “Bharata Maata”. Event is presided by a well known poetess of Davangere. Mrs.Sushila Devi and also Mr.Vamadevappa , President of Davanagere Zilla Sahitya Parishat addressed the gathering.

“TECHNICAL PAPER WRITEING FOR BEGINNERS & PLAGIARISM CHECK USING TURNITIN”

27th May 2022



Mr. Marulasiddappa H B, Assistant Professor, EEE department delivered a talk on how to check plagiarism using TURNITIN software during Webinar on “Technical paper writing for beginners and Plagiarism Check Using Turnitin” organized by Department of Computer Science and Engineering, Jain Institute of Technology, Davangere.

“INTELLECTUAL PROPERTY RIGHTS AND IP MANAGEMENT FOR STARTUPS”

27th May 2022



Department of Electrical and Electronics Engineering jointly in association with IIC-JITD organized a workshop on “Intellectual Property Rights and IP Management for Startups”. Principal Dr. Ganesh D B, HODs of all the departments, Faculties of various departments, IIC Coordinators and Students present. Function was inaugurated by watering the plant. Resource person Mr. Abhishek Singh, Examiner of patent and Designs, NIPAM Officer, Patent Office IP, Chennai delivered a knowledgeable content on Intellectual Property Rights.

“VISIT TO LINGANAMAKKI POWER HOUSE”

8th & 9th June 2022



JIT, Electrical and Electronics department 4th sem students and staffs are visited Linganamakki power Station On 8 and 9th June 2022 as a part of industrial tour. Prof. Chetan H R and Prof. Nandish B M accompanied the students. This visit provided an opportunity to learn practically through interaction, working methods and employment practices. It gives the students an exposure to current work practices of power plant as opposed to theoretical knowledge being taught at their college classrooms.

International Conference on Engineering Innovation-ICEI-2022

3rd June 2022



Jain Institute of Technology, Davanagere in association with Technical Institute for Engineers, Bangalore organized the “International Conference on Engineering Innovation-ICEI-2022” on 3rd June 2022. Dr. Shadi Aljawarneh, Jordan University of Science and Technology, Jordan and Mr. Rahul Mishra, Vice Chair, IEEE-ITS Bangalore Chapter Scientist, ISRO, Bengaluru were the Chief Guests for the Inauguration of the conference. Dr. Parameshachari B. D, Professor and Head, GSSSIETW, Mysuru, Dr. Hemalatha K L, President, TIE, Bengaluru, Dr. J Shivakumar, Principal, Jain College of Engineering, Belagavi were the Guest of Honour for the Inauguration of the conference. The Technical Chair of the conference Dr. Santosh M Nejekar, Professor and HoD, Dept. of EEE, JITD briefed about the conference. Dr. Ganesh D B, Principal, JIT, Davangere motivated the authors to effectively participate in the conference. During the Inauguration of the conference, a proceeding was released. Total 300+ research articles were received from various places namely Singapore, Malaysia, Indonesia and Ethiopia across the globe and also Odisha, Uttar Pradesh, Madhyapradesh, Maharastra, Kerala, Delhi and Noida across India. Out of these around 200 research articles were shortlisted based on standard review process and presented during the conference. The conference is coordinated by Prof. Marulasiddappa H B and Prof. Praveena Anaji, Department of Electrical & Electronic Engineering.

Ethnic day celebration

18th June 2022



Department of EEE represented the theme of “Halli Sambhrama” in the Shrunga college fest Ethnic Day celebration. All the staffs and students participated by wearing Village Dress.



Shrunga 2022

19th June 2022



P-Expo 2022 Project and Product exhibition

22nd June 2022





All the final year students of Electrical and Electronics Department participated in P-Expo 2022 Project and Product exhibition event with their project models. Chief Guest of the event Dr. Kumaraswamy B G, HOD of SJM Institute of Technology, Chitradurga appreciated the effort of students for their innovative projects.

Prize	Project Title	Project Associates
1 st	"Electric Vehicle"	♦ Rihan mallick ♦ Chaya ♦ Syed Anwar ♦ Shashank K
2 nd	"Automatic Vehicle over speed detection on Highway alerting system"	♦ Chaitra K T ♦ Chaitra K B ♦ Bhoomika M G ♦ Lakshmi C T

Farewell for the Final Year Students

9th July 2022





EEE Forum Potenza organized the farewell event for the EEE final year students. The students were addressed and inspired by Dr. Ganesh D.B., The principal and director of the Jain Institute of Technology, Davangere. . He advised the students to always view the past as a lesson learned and to remain positive. As the chief guest, Mr. Shashikiran Bisleri, Lead Engineer, TCS, Bangalore, spoke to the audience and covered the goals and aspirations of the recently graduated engineers to ensure that the finished product satisfies both the needs of the customer and the requirements of the company. To guarantee that it adheres to the BRS and SRS (System Requirement Specifications), to win the public's trust. Dr. Santosh M. Nejakar HOD, EEE department, Jain Institute of Technology in Davangere spoke to the students and emphasized the value of alumni. Final-year students provided input and talked about JIT's four-year journey. The Department staffs and students were present in function.

“Industrial visit to Supa Hydro Electric Power Plant”

15th & 16th June 2022



EEE department 8th sem students are visited Supa Hydro Electric Power Plant, Kali River in Joida taluk of Uttara Kannada district of Karnataka, as a part of industrial visit on 15th and 16th June 2022. Prof. Nagaraja Bodravara & Prof. Praveena Anaji accompanied the students. This industrial visit is to provide students an insight regarding internal working of power plant. We know, theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics.

“Students Academic Achievements”



Place	Name	Semester	Percentage
1 st	Usha V	7 th	86.12%
2 nd	Chaitra K T	7 th	84.25%
1 st	Vijayalakshmi S	5 th	85.88%
2 nd	Sreedevi M	5 th	80.75%
1 st	Ayesha Nausheen	3 rd	72.13%
2 nd	Muskan	3 rd	71.75%

Karnataka State council for science and technology (KSCST) sanctioned Students projects 2021-2022

The Principal, management, HOD, and all the staff are congratulating the below mentioned project batch of students and their guides on getting sanctioned for **Karnataka State Council for Science and Technology (KSCST)-45th series of student project program (SPP): 2021-22.**



Sl. No.	Project title	Guide	Students	Sanctioned amount (Rs.)
01	Seeds dryer using solar system	Mrs. Shailaja B M	Mr. Manjunatha G R Mr. Akash prakash D Mr. Manoj S N Mr. Sanjay H S	6,000/-
02	RFID based smart trolley for automatic billing system	Mrs. Vijayalakshmi A K	Mr. Basavaraja S A Mr. Mohan Naik K Mr. Manjunath P Mr. Ramesh S M	6,000/-

List of Paper Publications by the Faculty and Students

SL. No	Publisher Name	Titles of the Paper Published in International Conference -ICEI-2022
01	Nandish B M, Shashank N S, Praveen H K, Govindappa C G and Sudarshan D S	Simulation For Domestic Load Forecasting
02	Chetan H R, Akhila A R, Bhoomika M N, Priyanka K and Adithi S Renke	Smart Helmet To Refuge Miners From Hazardous Event In Mining Industry
03	Nandish B M, Ekanth Babu R J, Ganeshanaik S S, Shambhulingeshwara K O and Sriganesh G	Accident Detection & Rescue System Using IOT

04	Marulasiddappa H B, Nagaraj H, Rithish K A, Sainath B and Rahul B O	DTC-Based Performance Analysis Of A Permanent Magnet Synchronous Motor
05	Chetan H R, Spandana G, Megha M, Soumya P M and Suman Y J	Tomato And Chilli Plant Disease Detection Using CNN
06	Shwetha J, Sushma H P, Prathibha S and Vijay V	Foot Step Power Generation Using Piezoelectric Sensor
07	Pradeep Kanavi, Bhoomika M G, Chaitra K T, Chaithra K B and Lakshmi C T	Automatic Vehicle Over Speed Detection Alert And Controlling System On Highway
08	Nagaraja Bodravara, Usha V, Niharika M Gandoli, Mamatha S Kambalimata and Rajeshwari D V	Designing And Modeling Of High-Voltage Power Lines Using Matlab / Simulation Techniques
09	Nagaraja Bodravara, Basavaraj S Angadi, Ramesh Shankrappa Menasinahal, Manjunath Pasigar and Mohan Naik K	RFID Based Smart Trolley For Automatic Billing System
10	Pradeep Kanavi, Nikhath Anjum M Y, Poornima C, Uzama Khanum, Vinutha B B	Women Safety Device With GPS
11	Shwetha J, Santosh M Nejakar, Archana C Pardeshplar, Aishwarya B V	Energy Production From Moving Vehicles
12	Preetha P S, Vinod Kumar M, Tajuddin R Nadaf, Sayed Tahir M Kittur	Contactless Temperature Sensor
13	Praveena Anaji, Anjum Banu, Abhilasha S, Niveditha P A, Shafiya Sharmeen M S	Three Phase Fault Analysis And Detection In Transmission Line Based On IOT
11	Shwetha J, Santosh M Nejakar, Archana C Pardeshplar, Aishwarya B V	Energy Production From Moving Vehicles

11	Shwetha J, Santosh M Nejakar, Archana C Pardeshplar, Aishwarya B V	Energy Production From Moving Vehicles
12	Preetha P S, Vinod Kumar M, Tajuddin R Nadaf, Sayed Tahir M Kittur	Contactless Temperature Sensor

13	Praveena Anaji, Anjum Banu, Abhilasha S, Niveditha P A, Shafiya Sharmeen M S	Three Phase Fault Analysis And Detection In Transmission Line Based On IOT
14	Praveena Anaji, Niveditha K M, Pooja S, Karunya B, Himabindu T V	Multilevel Inverter Topology With Self Voltage Balancing Technique
15	Nagaraja Bodravara, Vinay Kumar T J, Vinay Kumar G, Prasanna A B, Abhishek M D	Simulation Of Domestic Utility To Improve The Voltage Stability Using AI Controller
16	Marulasiddappa H B, Mehak Tabassum, Noor Tabassum, Thaimin Banu, Ashwini T	Design Of Hybrid Electric Vehicles Using Mat lab/ Simulink

EEE Department 2018-22 Placed students



SL.NO.	STUDENT	COMPANY	JOB DESCRIPTION	PACKAGE
1	Sriganesh G	Herin Electronics	Application Engineer Trainee	2.5LPA
		Infosys	System Engineer	3.6LPA
2	Chaya N	Mu Sigma	Trainee Decision Scientist	3LPA
		ATOS	Junior Trainee	3.1LPA
3	Priyanka K	HCL Technologies	Graduate Engineer Trainee	4.25 LPA
4	Himabindu Tv	Mu Sigma	Trainee Decision Scientist	3LPA

5	Thaimin Banu	GRIFEO MM media and Management	Project Manager	4.8 LPA
		Byju's	Sales Associate	3.5LPA
6	Vinod Kumar M	HERIN ELECTRONICS	Application Engineer Trainee	2.5lac P.A
7	Adithi S Renke	CAPGEMINI	Analyst	4 LPA
8	Nivedita Km	WIPRO	Project Engineer	3.5 LPA
		NTT DATA	Associate Engineer	3.5 LPA
9	Vinutha Bb	WIPRO	Project Engineer	3.5 LPA
		CAPGEMINI	Analyst	4 LPA
10	Shambhu Lingeshwara K O	Q SPIDER	Trainee cum Placement	
11	Nagaraj H	Q SPIDER	Trainee cum Placement	
12	Noor Tabassum	Q SPIDER	Trainee cum Placement	
13	Archana C Pardesh-plar	Q SPIDER	Trainee cum Placement	
14	Mehak Tabassum	Q SPIDER	Trainee cum Placement	
15	Usha V	Q SPIDER	Trainee cum Placement	
		Kirloskar ferrous	Graduate engineer trainee	4 LPA
16	Abhishek M D	Q SPIDER	Trainee cum Placement	
17	Chaithra Kb	Q SPIDER	Trainee cum Placement	
18	Prathibha S	Q SPIDER	Trainee cum Placement	
19	Shashank K	Q SPIDER	Trainee cum Placement	
20	Shafiya Sharmeen Ms	Q SPIDER	Trainee cum Placement	
21	Bhoomika M G	Q SPIDER	Trainee cum Placement	
22	Basavaraj S Angadi	Q SPIDER	Trainee cum Placement	
23	Anjum Banu	Q SPIDER	Trainee cum Placement	
24	Ramesh Shankrappa Menasinahal	Q SPIDER	Trainee cum Placement	
25	Manjunatha G R	Q SPIDER	Trainee cum Placement	
26	Ashwini T	Q SPIDER	Trainee cum Placement	
27	Sayed Tahir M Kittur	Infosys	System Engineer	3.6 LPA
28	Poornima C	Infosys	System Engineer	3.6 LPA
29	Rithish KA	PENTAGON	Trainee cum Placement	
30	Vinay Kumar G	PENTAGON	Trainee cum Placement	

FACULTY ACHIVEMENT

AWARDED DOCTOR OF PHILOSOPHY



Santosh M Nejakar, HOD, Electrical and Electronics Engineering department has been conferred with the degree of Doctor of Philosophy in faculty of Electrical and Electronics engineering sciences for the thesis entitled “**Design and Implementation of Network based routing algorithms suitable for 5G System**”, From Visvesvaraya Technological University (VTU), Belgaum

RESOURCE PERSON FOR “INTELLECTUAL PROPERTY RIGHTS”

15th & 16th March 2022



Dr. Santosh M Nejakar, HOD, Electrical and Electronics Engineering Department Was a **Resource Person** for a two day workshop on “**Intellectual Property Rights**” organized by Department of R&D, Don Bosco Institute of Technology (DBIT), Bangalore on 15th and 16th March 2022.

EEE DEPT. FACULTY COMPLETED THE COURSE WORK

14th March 2022



Electrical and Electronics Engineering department Faculties Mr. Praveena M Anaji, and Mr. Nagaraj Bodravara successfully completed course work of Phd from Jain Deemed to be University Bangalore.