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# Department of Electrical & Electronics Engineering

*The Official Department Newsletter*  
*July-December 2023*

**Volume-02**  
**Issue-01**

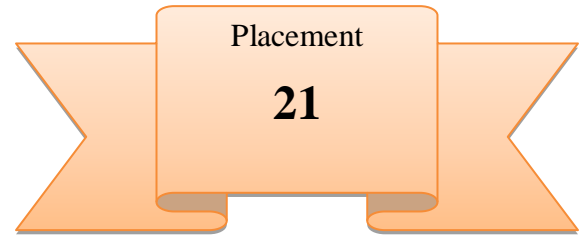


### **MESSAGE FROM HOD'S DESK**

We are happy to bring out our department E-Forum Newsletter, which showcases all the activities of the Department. I congratulate team for their continuous effort.



**Dr .M. S .NAGARAJ** Program Coordinator



### **VISION**

To train globally competent quality students in Electrical Engineering through excellent academic inputs, innovative ideas and team work”

### **MISSION**

**M1: To enhance the quality of life of students through Continuous learning & state-of-the-art technical education.**

**M2: To meet the long term needs of the industry & society.**

**M3: To inculcate leadership qualities & ethical values**

**M4: To serve the Community for the socio economic developments.**

### **Program Educational Objectives (PEOs)**

**PEO1-Successful in identifying, analyzing and solving variety of problems in the field of Electrical & Electronics Engineering.**

**PEO2-Apply acquired knowledge in solving technological challenges of the industry and society with professional ethics and accountability.**

**PEO3-Pursue a continual path of professional development along with advanced education and continuing enhancement programs, relevant to their specific career goals.**

**PEO4-Adapt to emerging technologies and opportunities to work as team on multidisciplinary projects with effective communication skills and leadership qualities**

## Program Specific Outcomes (PSOs)

**PSO1-Ability to analyse power systems that efficiently generate, transmit, distribute and utilize electric power.**

**PSO2-Able to design, develop and analysis of Modern Electric & Electronics systems and allied interdisciplinary areas using Conventional methods & Modern tools.**

**PSO3-Aware of the impact of professional engineering solutions in societal, environmental context, professional ethics and be able to communicate effectively.**

## PROGRAM OUTCOMES

**P1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.**

**P2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.**

**P3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.**

**P4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.**

**P5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.**

**P6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.**

**P7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.**

**P8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.**

**P9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.**

**P10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation., make effective**

**P11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.**

**P12:Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.**

### ***ABOUT THE DEPARTMENT***

The Department of Electrical & Electronics Engineering was started in the year 1979 with an intake of 40 students. Now the department has academic programme with an intake of 60. Department is duly recognized and accredited by National Board of Accreditation, AICTE, New Delhi and The Institution of Engineers (India), Kolkata.

The Department of Electrical Engineering has qualified and young faculty members. The average experience of teaching staff in the department is 12years. All the faculty committed to provide quality education in undergraduate studies. Department has state-of-the-art infrastructure.

### ***LABORATORY FACILITIES***

Department as a broad based UG curriculum & the syllabus of the courses are continuously updated and the laboratories modernized to reflect the rapid changes in technology. The department is equipped with the latest experimental and computational facilities meet the curriculum. The total expenditure on Instruments, Equipment's and Computers is Rs.52 Lakhs. The major laboratories in the department are Electronics, Microcontroller, Machines, Control system, Measurement, Power system simulation & High voltage & relay.

### ***DEPARTMENTAL LIBRARY***

We have department library with 1567 books with 424 titles. Every year books are added to the library from the forum. Every semester two books are issued to students. Electrical and

### ***MAJOR EQUIPMENT'S AND SOFTWARE***

Department has many major equipment's. Major equipment's are Digital trainer kits, Power Electronics Modules, 8051 Flash Programmable Microcontroller, Evaluation Board (MCB 51) with interfacing modules, DC and AC Machines sets, Transformers, Electrolytic Tank, Auto-Transformers, Servo Stabilizer, Air-Cooled Rectifier Unit, Phase-Shifting Transformer, HV Testing Transformer, 5-Stage Impulse Voltage Generator, Continuously Variable Auto-Transformer, 60kV HV Testing Transformer, Digital Storage Oscilloscope, HV Rectifier Unit, Computers, UPS, 200kVA diesel generator. Department has Mi-Power software Packages with 6 user, Microcontroller-Keiluvision#3(C51), Lab view with 10 Users, PSPICE Student Version.

### ***FDP/WORKSHOP ATTENDED BY THE FACULTY***

- ✚ Mrs Sowmya Anand Asst. Prof. participated in the Five Day FDP on "Trends in technological intelligence 2023" BBDNIIT, Lucknow from 21<sup>st</sup> -25<sup>th</sup> August 2023.
- ✚ Dr.S.R.Basavarajappa Associate Prof. participated in the 01 Month Internship program on "Electrical and EV Design using MATLAB" IETE Ranchi centre from 28th August - 28<sup>th</sup> September 2023.
- ✚ Dr.S.R.Basavarajappa Associate Prof. and Mr.Prashanth Kumar.H.K Assistant Prof. Participated in the 2 days workshop on "Skills for Quality Research and Publications" , KAAS AND IQAC on 8<sup>th</sup> - 9<sup>th</sup> September 2023.
- ✚ Dr.S.R.Basavarajappa Associate Prof. and Mr.T S Karibasavaraju Assistant Prof. participated in the 5 days FDP on "Emerging Trends in Signal Processing Image Processing and Artificial Intellifgence", SJMIT Chitradurga from 12<sup>th</sup> -16<sup>th</sup> September 2023.
- ✚ Mr.T S Karibasavaraju Assistant Prof. Participated in the 7 days FDP on "Recent Trends in renewable energy systems", Rajarshi Shahu College of engineering from 3<sup>rd</sup> - 9<sup>th</sup> October 2023.

- ✚ Mr. Prashanth Kumar.H.K Assistant Prof. participated in the 5 days FDP on “Artificial Intelligence”, Chirst Academy Institute,Banglore from 20<sup>th</sup> -24<sup>th</sup> November 2023.
- ✚ Dr.S.R.Basavarajappa and Mr.T S Karibasavaraju Assistant Prof. has been participated in the 7 days Master class on “Solar PV System Design”, Skill dzire Technologies Private Limited from 18<sup>th</sup> -22<sup>nd</sup> December 2023.

### ***FACULTY PAPER PUBLICATION***

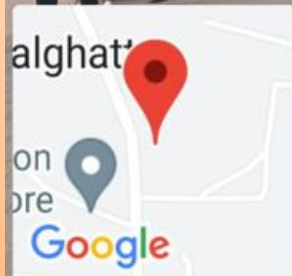
- ✚ Dr.M.S.Nagaraj, HOD, EEE Author published the paper “Power Management Algorithm for Standalone Operated Renewable Distribution Generator with Hybrid Energy Backup in Microgrid”, International Journal of Power Electronics and Drive Systems, Scopus Indexed Journal, June 2023.
- ✚ Dr. Manjunath H. M. Assistant Prof. Author published the paper, “Energy Management of Renewable Energy Resources Powered Distribution Storage IN Grid-tied Microgrid” published in Grenze International Journal of Engineering and Technology, June 2023.
- ✚ Mrs Sowmya Anand, Mr.Prashanth Kumar.H.K. and Mrs.Ashwini.A.R Assistant Prof. as Authors for paper entitled “Safety Precaution in Mining Industries to Refuge Miners from Hazardous Events Using Smart Helmet” published in International Research Journal of Modernization in Engineering Technology and Science ,September 2023.

## EVENTS ORGANIZED IN DEPARTMENT

Our Electrical Branch students participated in BPL Cricket Tournament at BIET Davangere on 17<sup>th</sup> January 2023 and won the **FIRST** place.



Our Electrical branch 5<sup>th</sup> semester students has visited PLC and SCADA Plant at Ace Designares at Bangalore on 21<sup>st</sup> November 2023.



Kalalghatta, Karnataka, India

Arivesandra, 58PF+FPX, Kalalghatta, Karnataka 562132, India

Lat 13.187385°

Long 77.325443°

21/11/23 05:47 PM

Our Electrical branch 7<sup>th</sup> semester students has visited VARAHI HYDRO ELECTRIC POWER PLANT on 8<sup>th</sup> December 2023.



Our Electrical branch students has been participated in Civil Big Blash Cricket Tournament on 10<sup>th</sup> October 2023 , BIET Davangere and won the **FIRST** place.





Our Electrical branch students has been participated in Chemical Cup Cricket Tournament on 8<sup>th</sup> November 2023 ,BIET Davangere and won the **SECOND** place (Runner up).



Our Electrical branch students has been participated in Galli Cricket Tournament on 19<sup>th</sup> June ,BIET Davangere and won the **SECOND** place (Runner up).



**PLACEMENT**

<b>Sl.No</b>	<b>Name of the Student</b>	<b>Company Placed</b>
1	DARSHANAGOUDA PATIL	Teachnook
2	DHANRAJ R R	Teachnook
3	K BHUMIKA	Teachnook
4	KARTHIK B	Teachnook
5	MOHAMMED HAROON U R	Teachnook
6	SAHANA B S	Teachnook
7	SNEHA RAMESH SORATUR	Teachnook
8	SURAJ PRAKASH KADUR	Teachnook
9	SURAJ R K	Destination Technology/ Talent Serve
10	RASHMI D	Talent Serve
11	AKASH K N	Talent Serve
12	MEGHNA P N	Talent Serve
13	MALATHESH M K	Talent Serve
14	YASHWNATH KUMAR K S	Talent Serve
15	LOTHIT KUMAR T	Talent Serve
16	NAGARAJA B M	Talent Serve
17	KHAJA HUSEIN	Talent Serve
18	VINAY PATEL	Talent Serve
19	DEEPIKA M	Talent Serve
20	SHEETAL B B	Talent Serve
21	MOHAMMED HAROON	Talent Serve

**Editorial Committee**

**Chief Editor**

**Dr. M S NAGARAJ**

Prof & HOD

**Staff Editor**

**SOWMYA ANAND**

Asst. Professor

**Student Editors**

Koushik A

Hanni Vinayaka