



Accredited by NAAC with 'A' Grade and Accredited by NBA
Department of Electrical & Electronics Engineering

The Official Department Newsletter
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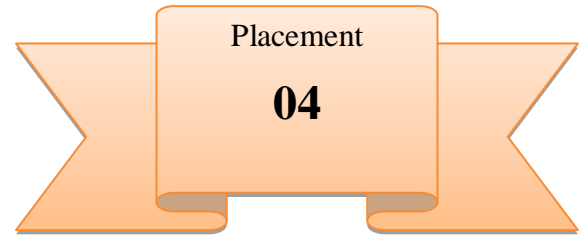


MESSAGE FROM HOD'S DESK

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 12 years. 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

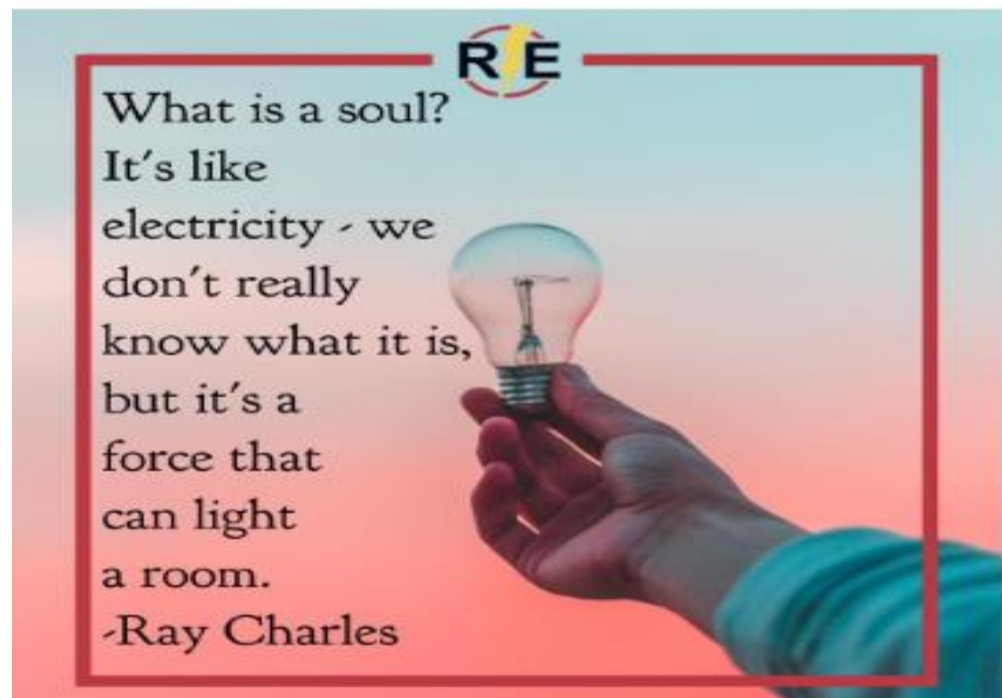
Department has many major equipment's. Major equipment's are Digital trainer kits, Power Electronics Modules, 8051 Flash Programmable Microcontroller, Evaluation Board (MCB 51) with interfacing modules, DC and AC Machines sets, Transformers, Electrolytic Tank, Auto-Transformers, Servo Stabilizer, Air-Cooled 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

- ✚ Dr.S.R.Basavarajappa, Associate Prof. participated in the Two Days Online Faculty Development Program on "Data analysis using Python", Edulakes solutions, LLP ,IIT Roorkee on 11th & 12th February 2023.
- ✚ Mrs Ashwini A R, Assistant Prof. Participated in the Six Days Online Faculty Development Program on "UHV-II", AICTE, New Dehli from 13th -18th February 2023.
- ✚ Dr.S.R.Basavarajappa, Mr.T S Karibasavaraju and Mrs Sowmya Anand, Assistant Prof. participated in the Workshop on "Interface of IPR in academics and entrepreneurship", BIET Davangere on 2nd & 3rd March 2023.
- ✚ Mrs Priyanka.S.M, Assistant Prof. participated in the Six Days Online Faculty Development Program on "UHV-II", AICTE from 10th & 15th April 2023.
- ✚ Mrs Sowmya Anand and Mrs Priyanka.S.M, Assistant Prof. Participated in the One Day Webinar on "Current status and future prospects of GaN power HEMTS", Sreenivasa Institute Of Technology And Management Chittor on 15th June 2023.

FACULTY PAPER PUBLICATION

- ✚ Mr Shadaksharaiah C. and Mr. Karibasavaraju T. S. Assistant Prof. as Authors for paper entitled: “Auction Based Single Buyer Energy Trading Model in Grid-tied Microgrid with Active” published in e-Prime-Advances in Electrical Engineering, Electronics and Energy, Elsevier's e-Prime, March 2023.
- ✚ Dr Anjaneya L.H Associate Professor and Dr.Manjunath.H.M, Assistant Prof. as Authors for paper entitled: “Auction Based Single Buyer Energy Trading Model in Grid-tied Microgrid with Active Sellers and Buyers” published in e-Prime-Advances in Electrical Engineering, Electronics and Energy March 2023.
- ✚ Dr.Manjunath.H.M, Mr. Karibasavaraju T.S. and Mr.Arun Kumar.P Assistant Prof. as Authors for paper entitled: “Auction Based Single Buyer Energy Trading Model in Grid-tied Microgrid with Active” published in Journal of Recent Trends in Electrical Power System-HBRP Publication August 2023.



EVENTS ORGANIZED IN DEPARTMENT

Electrical Forum Organised INDUSTRIAL TRIP to 400/220k GI substation, KPTCL, Jagalur on 06.01.2023



Electrical Forum organised an interbranch Electrical Thunder Cricket Tournament from 6th-10th April 2023, 16 Teams registered , participated in the Tournament.



Glimpses of interbranch Fest inauguration and Badminton event

Electrical Forum Organised an Vidyuth-2023 an interbranch Fest on 17th April 2023 ,BIET Davangere

Following activities are conducted :

- Badminton
- Quiz
- Optical illusion
- Chess
- Filmy Funda



Electrical Forum Organized célébration of 'National Energy Conservation week' on 27th May2023 BIET Davangere.



STUDENTS ACTIVITIES

Our Electrical branch students participated in Aravinda Cup Cricket Tournament on 17th March.2023 BIET Davangere and won the second place (Runner Up).



Our Electrical branch students Raju.G.J and Sagar.G.G participated in Project presentation title 'Energy management in Grid tied Microgrid' Electrical and Electronics Department AIT Chikmanglur held on 3rd May.2023 and won the **THIRD** place.



PLACEMENT

Sl.No	Name of the Student	Company Placed
1	ANANYA P GUJJAR	Accenture
2	CHANDANA S M	Accenture
3	MOHAMMED JAFAR SADDIQ JAMKHANDI B	Vibs Infosol Pvt.Ltd
4	CHAYA G MELAGIRI	Teachnook/Talent Serve

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Prof & HOD

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