



BAPUJI EDUCATIONAL ASSOCIATION(R)
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY,
DAVANAGERE.

ELECTRICAL NEWS

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WE LIGHT THE WORLD

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.

The Department Newsletter
June 2024



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 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 presentations, and give and receive clear instructions.

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. effective presentations, and give and receive clear instructions.

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.

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.

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, which has renowned as well as qualified and dynamic faculty. Department is providing quality education to undergraduate (UG) as well as PhD. The average experience of staff is 17 years. The enrolment ratio of students is 100%.

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 Electronics Engineering books available in the Central Library with 8685 with 1426 titles.

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.

FACULTY PAPER PUBLICATION

- ✚ Dr .Shivakumaraswamy, “Agricultural Utility vehicle with field monitoring using IoT”, IJERT ,vol.13 issue. 4, April 2024.
- ✚ Dr.Manjunatha H M , “ Auction-Based Single-Sided Bidding Electricity Market: An Alternative to the Bilateral contractual energy trading model in a Grid-Tied Microgrid " IEEE Access 2024.
- ✚ Mrs.Sowmya Anand, “A Comprehensive Investigation of DG Integration with DC Microgrid”, World Journal of Advanced Research and Reviews(WJARR) 2024
- ✚ Mrs.Shilpa S K, “ IoT based monitoring of Distribution Transformer ”, World Journal of Advanced Research and Reviews(WJARR) 2024.

FACULTY BOOK PUBLICATION

- ✚ Dr.M.S.Nagaraj & Dr.Basavarajappa S R, “ **Enhancing Load Frequency Control in a Four-Area Power System Network with an Optimal ANN Controller**”, Theory and Application of Engineering Research, 2024.



FDP/WORKSHOP ATTENDED BY THE FACULTY

Sl No .	Title of Paper	Name of the author/s	Name of Institute	Year of Publication	Is it listed in UGC care list/scopus/Web of Science/other, mention
1	Research Methodology and	Dr.Basavarajappa S R	Shridevi Institute of Engineering and Technology, Tumakuru	26/02/2024 to 01/03/2024	5 days FDP
2	Developing Research Skills	Karibasavaraju T S			
3	Recent Trends and Applications in Data Science	Ashwini.A.R	Sister Nivedita University,Chitoor,kol kata	26/02/2024 to 01/03/2024	5-days online FDP
4	Mentors Of Standards Clubs	Karibasavaraju T S	Bureau of Indian standards in Goa	13/02/2024 to 14/02/2024	2-days training
5	The Future of Generative AI in Academic Research and Publishing	Ashwini A R	Institute of Engineering and Management,Kolkata	02/01/2024 to 06/01/2024	5-days online FDP
6	Master Class on Solar PV System Design	Dr.Basavarajappa S R	SkillDzir	18/12/2023 to 22/12/2023	5-days
7	Distribution Storage Energy Management in Grid-tied Micro-grid	Dr.Manjunatha H M	GSSS Institute of engineering and Technology for women, Mysuru	26/04/2023	Project Exhibition Shakthistaavara-2023

EVENTS ORGANIZED IN DEPARTMENT

Our Electrical branch 3rd semster students and four faculties has visited Srinivasapura, Harihareshwara temple, Veerabadreshwara Temple, Malebennur to study organic forming, water conservation and Historical on 3rd Febraury 2024.



Our Electrical branch 5th semester students has visited Southern Load Distribution Centre at Bangalore on 1st March 2024 followed by Mysore Visit on 2nd March 2024.



To Enhance entrepreneurial mindsets among the students, organize various workshops, conduct practical trainings our department had **Memorandum Of Understanding with UNIVERSAL ELECTRICAL WORKS, Harihara** on 18th May 2024.



Electrical Forum Organised an Technical Talk ‘**Introduction to Industrial IoT**’ on 29.06.2024 at BIET Davangere



STUDENT ACTIVITIES

- ✚ R Abhishek and Pavan Chandu M participated in KHEL UTSAV and secured **first place** in Badminton tournament doubles held by CSDS Dept B.I.E.T on 5-9th june 2024.
- ✚ Pavan Chandu M participated in KHEL UTSAV and secured first place in Badminton tournament singles held by CSDS Dept B.I.E.T on 5-9th june 2024.
- ✚ Bhanupriya .T participated in 100 metres Running Event organised by B.I.E.T -Davana-24 on 09/05/2024 sports and secured **second place** .
- ✚ Bhanupriya .T participated in Long jump Event organised by B.I.E.T -Davana-24 sports on 09/05/2024 and secured **third place** .
- ✚ Bhanupriya .T participated in 1000 meters organised by B.I.E.T -Davana-24 sports on 09/05/2024 and secured **third place** .
- ✚ Bhanupriya .T participated in Disc throw Event organised by B.I.E.T -Davana-24 sports on 09/05/2024 and secured **second place**.
- ✚ Bhanupriya .T participated in Shortputt throw Event organised by B.I.E.T -Davana-24 sports on 09/05/2024 and secured **first** place.
- ✚ R Abhishek attend the N.C.C. camp from 02/05/2024 to 11/05/2024 at Toranagallu Ballari.

- ✚ Priyanka Ningappa Naregal ,Sahana Ramesh Meti ,Sneha Ramesh Soratur of 8th semester students published paper entitled "**Agricultural Utility vehicle with field monitoring using IoT**" in IJERT ,vol.13 issue 4, April 2024.
- ✚ Priyanka Ningappa Naregal ,Sahana Ramesh Meti ,Sneha Ramesh Soratur of 8th semester students has presented a paper entitled " **Agricultural Utility vehicle with field monitoring using IoT** " in IEEE PROJECT EXPO and secured **First place** organized by GSSS institute of engineering and technology for women Mysore on 3rd May 2024.
- ✚ Umesh T.B, Avinash Abraham, of 8th semester students has presented a paper entitle "**Solar powered Smart Waste Management system using IoT**" in E-BELAKU 2024 National Level Technical Symposium and organized by Adichunchanagiri Institute Of Technology on 3rd May 2024.

PLACEMENT

S.#.	Full Name	Company Placed
1	ANANYA P GUJJAR	Accenture
2	CHANDANA S M	Accenture
3	CHAYA G MELAGIRI	Teachnook/Talent Serve
4	DARSHANAGOUDA PATIL	Teachnook
5	DHANRAJ R R	Teachnook
6	K BHUMIKA	Teachnook/CuraTeQ
7	KARTHIK B	Teachnook
8	MOHAMMED HAROON U R	Teachnook/Talent Serve/CuraTeQ
9	SAHANA B S	Teachnook
10	SNEHA RAMESH SORATUR	Teachnook
11	SURAJ PRAKASH KADUR	Teachnook/PRDC
12	SURAJ R K	Destination Technology/Talent Serve
13	RASHMI D	Talent Serve
14	AKASH K N	Talent Serve/CuraTeQ
15	MEGHNA P N	Talent Serve/CuraTeQ
16	MALATHESH M K	Talent Serve
17	YASHWNATH KUMAR K S	Talent Serve/CuraTeQ
18	LOHITH KUMAR T	Talent Serve
19	NAGARAJA B M	Talent Serve
20	KHAJA HUSEIN	Talent Serve
21	VINAY PATEL	Talent Serve
22	DEEPIKA M	Talent Serve
23	SHEETAL B B	Talent Serve
24	SHIVARAJ R AMBIGER	ROYALOAK INCORPORATION PVT.LTD.(OFF)
25	BHOOMIKA M	FOXCONN HON HAI TECHNOLOGY INDIA MEGA DEVELOPMENT PVT LTD(OFF)
26	UMESH T B	PRDC
27	PRIYANKA NINGAPPA NAREGA L	FOXCONN HON HAI TECHNOLOGY INDIA MEGA DEVELOPMENT PVT LTD(OFF)
28	VAISHNAVI B	PRDC

