

Dr. BASAVARAJAPPA. S. R.

B.E, M.E, Ph.D.

Associate Professor

Department of Electrical and Electronics

Bapuji Institute Engineering and Technology

DAVANAGERE - 577004

Mobile: +91-9448727573

Email: basavarajsr@gmail.com



RESEARCH INTEREST

- Electrical Power Systems, Control Systems, AI Techniques.

TEACHING EXPERIENCE: 25 Years

- Presently working as Associate Professor in E & E Department of B.I.E.T, Davanagere from 01/06/2023 to till date.
- Worked as Assistant Professor in E & E Department of B.I.E.T, Davanagere from 01/09/2008 to 31/05/2023.
- Worked as a Senior Lecturer in E & E Department of B.I.E.T, Davanagere from 01/03/2005 to 31/08/2008.
- Worked as a Lecturer in E & E Department of B.I.E.T, Davanagere from 28/08/1997 to 28/02/2005.

EDUCATIONAL QUALIFICATION

- Ph.D. (Electrical and Electronics Engineering) from VTU, Belagavi, in the year April – 2023.
- M.E (Electrical Power Systems) with first class from U.V.C.E, Bengaluru, Affiliated to Bangalore University, in the year 1996.
- B.E (Electrical) with first class from R.V.C.E, Bengaluru, Affiliated to Bangalore University, in the year 1993.

PROFESSIONAL MEMBERSHIP

- Life Member of Indian Society for Technical Education – LM-24945
- Member of Institution of Engineers (India) - M-1656206

PAPER PRESENTATION

In International Conference:

1. Presented and published a paper entitled “Load Frequency Control of Three Area Interconnected Power System using Conventional PID, Fuzzy Logic and ANFIS Controllers” on research work in 2nd International Conference of Emerging Technology (INCET 2021) held at Jain College of Engineering, Belagavi, Karnataka during 21st to 23rd May, 2021.
2. Presented and published a paper entitled “Load Frequency Control of Two-Area Interconnected Power System” on research work in Three Day International Conference on Smart Computing and Control of Systems (ICSCCS-2019) held at Sree Vidyanikethan Engineering College, Tirupati (Andhra Pradesh) during 17th to 19th October, 2019.

PAPER PUBLICATION

In International Journals:

1. Basavarajappa S R and Dr. M S Nagaraj, “Neuro-Fuzzy Intelligent Controller for LFC of a Four-Area Power System”, **International Journal of Engineering Technologies and Management Research** (ISSN: 2454-1907), vol. 9, no. 10, October 2022, pp. 50-60, doi.org/10.29121/ijetmr.v9.i10.2022.1235

2. Basavarajappa S R and Dr. M S Nagaraj, "An optimal artificial neural network controller for load frequency control of a four-area interconnected power system", **International Journal of Electrical and Computer Engineering** (E-ISSN: 2722-2578, P-ISSN: 2088-8708), vol. 12, no. 5, October 2022, pp. 4700-4711, doi.org/10.11591/ijece.v12i5.pp4700-4711
3. Basavarajappa S R and Dr. M S Nagaraj, "Load Frequency Control of Two-area Interconnected Power System Using Optimal Controller, PID Controller, and Fuzzy Logic Controller", Peer-Reviewed Bimonthly International Journal– **Helix -The Scientific Explorer** (E-ISSN: 2319-5592; P-ISSN: 2277-3495), vol. 10, no. 3, July 2020, pp. 30-35, doi.org/10.29042/2020-10-3-30-35

In International Conference:

1. Basavarajappa S R and Dr. M S Nagaraj, "Load Frequency Control of Three Area Interconnected Power System using Conventional PID, Fuzzy Logic and ANFIS Controllers," 2021 2nd International Conference for Emerging Technology (INCET-2021), **IEEE Xplore**, (E-ISBN: 978-1-7281-7029-9, P- ISBN:978-1-7281-7030-5), 22 June 2021, pp. 1-6, doi.org/10.1109/INCET51464.2021.9456120

BOOK CHAPTER PUBLICATION

1. Dr. Basavarajappa S. R. and Dr. M. S. Nagaraj, "Enhancing Load Frequency Control in a Four-Area Power System Network with an Optimal ANN Controller", Theory and Applications of Engineering Research Vol. 4, B. P. International, India and UK, January 2024, pp. 149-168, (ISBN: 978-81-969723-0-1), doi.org/10.9734/bpi/taer/v4/7161B

ACHIEVEMENTS

- Mission10X Certification course at U.B.D.T.C.E., Davanagere, from 05/01/2009 to 09/01/2009 has been successfully completed and approved by Mission10X group from Wipro Technologies Pvt. Ltd., Bengaluru.
- Awarded certificate of merit from B.I.E.T. for cent-percent result in the subject H.V.D.C. Transmission in the felicitation function on 19/08/2000.

Seminars/Workshops/Events Organized

- Organized a National Level Five Days Faculty Development Program on Operational Planning in Electric Distribution Systems in association with IE (India) from 11/01/2021 to 15/01/2021.
- Organized IMPULSE (2K7, 2K8 and 2K9) a State Level Technical Event in the years 2007, 2008 and 2009.

Seminar/Workshops/Webinar/Conferences Attended

- Participated in online Five Days Faculty Development Program on Research Methodology and Developing Research Skills held during 26th February to 1st March 2024 conducted by Shridevi Institute of Engineering and Technology, Tumkur.
- Participated in online Five Days Master Class on Solar PV System Design from 18/12/2023 to 22/12/2023 conducted by SkillDzire-Realtime Learning Platform, Hyderabad.
- Participated and completed one month Internship Program on Electrical & EV Design using MATLAB from 28/08/2023 to 28/09/2023 conducted by IETE Ranchi Centre and Pantech e-Learning, Chennai.
- Participated and successfully completed 5 days National Level Faculty Development Program on Emerging Trends in Signal Processing, Image Processing and Artificial Intelligence from 12th to 16th of September 2023 organized by department of Electronics and Communication Engineering, SJMIT, Chitradurga.
- Participated in the Two day's workshop on Skills for Quality Research and Publications organized by the Karnataka Association for the Advancement of Science (KAAS) and IQAC on 8th and 9th September, 2023 at Bapuji Institute of Engineering and Technology, Davanagere.

- Participated in the Two day's workshop on Interface of IPR in Academics and Entrepreneurship organized by the Karnataka State Council for Science and Technology on 2nd and 3rd March, 2023 at Bapuji Institute of Engineering and Technology, Davanagere.
- Attended 2 days online training on Data Analysis using Python held on 11th and 12th February 2023 organized by EduLakes Solutions LLP in association with National Service Scheme (NSS) - IIT Roorkee.
- Participated in the Five Day's Virtual Faculty Development Programme on Electrical Vehicle Technologies-A Future Transportation Tool organized by the Department of Electrical and Electronics Engineering, Bangalore Institute of Technology, Bengaluru, from 28/11/2022 to 02/12/2022.
- Attended the Webinar on Organizing the Thoughts and Results Towards a Possible Journal Publications: The Lifecycle on 8th November 2022 organized by IEEE Student Branch and Department of Electronics and Communication Engineering, NMIT, Bengaluru.
- Participated in the IE (India) Technical Webinar on the theme Increasing use of Electrical Vehicles and its Advantages, organized by Gorakhpur Local Centre of The Institution of Engineers (India) under the aegis of Electrical Engineering Division on 10/04/2022.
- Participated in the three days online STTP on Recent Trends in Electric Vehicle Technology (RTEVT-2022) from 15 - 17 March 2022 at Silicon Institute of Technology, Bhuvaneshwar, Odissa
- Participated in the one-day webinar on 5G Technology – An Overview organized by IEEE Information Theory Society (ITS) Bangalore Chapter on 5th March 2022.
- Participated in the one-week online faculty development program on AI Applications to Power Systems during 17 – 22 January 2022, organized by Department of Electrical and Electronics Engineering, Siddaganga Institute of Technology, Tumakuru.
- Attended a Two-day workshop on Implementation of National Education policy – 2020 organized by Bapuji Institute of Engineering and Technology, Davanagere in association with Visvesvaraya Technological University, Belagavi on 10th and 11th December 2021 at BIET, Davanagere.
- Participated in AICTE sponsored online Short Term Training Programme (STTP) on Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid organized by the Department of Electrical & Electronics Engineering, NMAM Institute of Technology, Nitte during 02 - 07 August 2021.
- Attended the Webinar on Effective Utilization of VTU Consortium E-Resources using RRCE jointly organized by Library and Information Centre & Department of Information Science & Engineering of Raja Rajeswari College of Engineering, Bangalore on 2nd July 2021.
- Participated in a One Week National Level FDP on Application of Data Science and Machine Learning in Engineering organized by the Department of Electrical and Electronics Engineering in association with Centre for Energy-SVEC, IEEE Student Branch and ISTE Student Chapter, Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh, during 14th to 18th June, 2021.
- Participated and presented a paper entitled “Load Frequency Control of Three Area Interconnected Power System using Conventional PID, Fuzzy Logic and ANFIS Controllers” on research work in 2nd International Conference of Emerging Technology (INCET 2021) held at Jain College of Engineering, Belagavi, Karnataka during 21st to 23rd May, 2021.
- Participated in the IE (India) Technical Webinar on the theme Smart Grid using Smart Meters and Smart Phone, organized by Meerut Local Centre of The Institution of Engineers (India) under the aegis of Electrical Engineering Division on 18/04/2021.
- Participated in a Three Days FDP on Artificial Intelligence using MATLAB organized by CoreEL Technologies, Bengaluru held for the period of 23rd February 2021 to 25th February 2021.
- Participated in the online webinar on AI Master Class on Matlab Simulink at Pantech Prolabs India Pvt. Ltd., Chennai from 18/01/2021 to 01/02/2021.
- Participated in the IE (India) Technical Webinar on the theme E-Bike Design, Retrofitting and EV Charging, organized by Kattankulathur Local Centre of The Institution of Engineers (India) under the aegis of Electrical Engineering Division on 12/01/2021.
- Participated in the online webinar on 30 Days Master Class on Matlab Simulink at Pantech Prolabs India Pvt. Ltd. In association with Andhra Pradesh State Skill Development Corporation (APSSDC) from 23/11/2020 to 22/12/2020.

- Attended 5-days online Faculty Development Program on Tools and Techniques for Effective Research Writing organised by Department of Electrical and Electronics Engineering, PES Institute of Technology and Management, Shivamogga from 7th to 11th December 2020.
- Participated in the webinar program on Remote Lab Platform for Hardware Circuit Experiments organized by the Department of Electronics and Communication Engineering, BIET, in association with Institution of Engineers (India), Davanagere Local center, Davanagere, held on 10/11/2020.
- Participated in one week online FDP on Recent Trends and Emerging Technologies in Solar and Wind Energy Conversion Systems conducted by Dept. of E&E Engineering, J.N.N College of Engineering, Shivamogga, in association with The Institution of Electronics and Telecommunication Engineers (IETE) held from 10th August 2020 to 14th August 2020.
- Participated in the webinar program on Problem Statement for Research in Electric Vehicles organized by Haritha TechLogix, Bengaluru, on 5th July, 2020.
- Participated in a National Webinar on Deep Learning in Visual Recognition organized by the Department of Electrical and Electronics Engineering in association with ISTE Student Chapter & IEEE Student Branch, Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh, on 2nd July, 2020.
- Attended three day International FDP on Recent Trends in Power System Security organized by Smt. Kamala & Sri Venkappa M. Agadi College of Engineering & Technology- Lakshmeshwar, Karnataka, India from 09/06/2020 to 11/06/2020.
- Participated and presented a paper entitled Load Frequency Control of Two-Area Interconnected Power System using Optimal Controller, PID Controller and Fuzzy Logic Controller on research work in Three Day International Conference on Smart Computing and Control of Systems (ICSCCS-2019) held at Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh, during 17th to 19th October 2019.
- Attended a VTU-TEQIP-1.3 sponsored Two-day workshop on Deliberation of 3rd to 8th semester 2018 Scheme, Syllabus at B.N.M.I.T, Bengaluru from 29th to 30th April, 2019.
- Attended one day FDP on Computer Vision in Industry, Cloud and Microservices an API organized by TCS, Bengaluru, at B.I.E.T, Davanagere on 16th February 2019.
- Attended One-day workshop on Industry Institute Innovation Interaction organized by KSCST, Bengaluru and Research and Development cell of B.I.E.T, Davanagere on 11th October 2017.
- Attended One-day workshop on Intellectual Property Rights, organized by Research and Development cell of B.I.E.T, Davanagere on 6th April 2017.
- Participated and presented abstract of research work in Two Day International Symposium on Smart Grid Technologies: Recent Initiatives, Challenges and Opportunities (ISSGT 2017) held at N.I.E Institute of Technology, Mysuru during 27th to 28th January 2017.
- Attended One-day workshop on Research Methodology organized by R & D cell and ISTE, BIET chapter, B.I.E.T., Davanagere on 28th October 2015.
- Attended a Four-day workshop on Training of Evaluators on Outcome Based Education and Accreditation organized by NBA, New Delhi & B.I.E.T, Davanagere on 5th March 2014 (Phase-I) and from 21st to 23rd March 2014 (Phase-II).
- Attended One-day workshop on Research Add-Ons organized by Department of Computer Science and Engineering, B.I.E.T., Davanagere on 19th March 2014.
- Attended a TEQIP-II sponsored One-Week workshop on Recent Trends in Power System Operation and Control conducted by the Department of E & E Engg., N.I.E., Mysuru, from 08/07/2013 and 12/07/2013.
- Attended a National Level Three-day workshop on Modeling, Simulation and Analysis of Modern Power Systems conducted by the Department of E & E Engg., R.V.C.E., Bengaluru, from 27/06/2012 and 29/06/2012.
- Attended the Two-day workshop on Advanced Electrical Power Systems and Artificial Intelligence Techniques, conducted by the Department of E & E Engg., B.I.E.T., Davanagere, during 11/02/2011 and 12/02/2011.
- Attended the AICTE sponsored QIP short term course on Analysis of Modern Power Systems conducted by Center for Continuing Education, I.I.Sc., Bengaluru, from 16/03/2009 to 20/03/ 2009.

- Attended the Five-day Workshop – Mission 10X conducted by Wipro, at U.B.D.T.C.E., Davanagere, from 05/01/2009 to 09/01/2009.
- Attended the National Conference on Advances in Electrical Engineering (NCAEE08) held at N.M.A.M.I.T, Nitte on 14th and 15th November 2008, funded by TEQIP.
- Attended the AICTE – ISTE sponsored STTP on Virtual Instrumentation conducted by the Department of IT & EC Engg., S.I.T., Tumkur, from 29/01/2007 to 03/02/2007.
- Attended a National Level Two-day workshop on Recent Trends in Electrical Engineering conducted by the Department of E & E Engg., J.N.N.C.E., Shivamogga, 10/11/2006 and 11/11/2006.
- Attended the AICTE sponsored QIP short term course on Analysis of Modern Power Systems conducted by Center for Continuing Education, I.I.Sc., Bengaluru, 06/02/2006 to 10/02/2006.
- Attended the AICTE – ISTE sponsored STTP on Recent Trends & Applications in H.V. Insulation conducted by the Department of E & E Engg., B.I.E.T., Davanagere, from 13/01/2003 to 24/01/2003.
- Attended the AICTE – ISTE sponsored STTP on Recent Trends in Renewable Energy Sources conducted by the Department of E & E Engg., B.E.C., Bagalakote, from 03/09/2001 to 15/09/2001.

RESPONSIBILITIES

- Department Library In-charge
- VTU Valuation Coordinator
- AICTE Activity Points Programme In-charge
- Worked as NBA Criterion-3 Coordinator
- Worked as NAAC Extended Profile Coordinator
- Worked as Assistant Co-ordinator, IGNOU from June – 2011 to February-2013
- Worked as Electrical Forum In-charge from Aug–2007 to July – 2011
- Worked as Timetable In-charge from 2001 to 2007

PROJECT GUIDED:

- For UG – 38 Batches

SUBJECTS TAUGHT

Research Methodology and IPR, Power System Operation and Control, Power System Analysis – 2/Power System Analysis and Stability, Power System Planning, Linear Control Systems / Control Systems, Power Electronics, Industrial Drives and Applications, and Electric Motors, Electrical Machines/Transformers & Induction Machines/DC & Synchronous Machines, Optimization Techniques, H.V.D.C Transmission, Electrical Power Generation, Electric Circuits/Network Theory / Network Analysis, Electrical and Electronics Measurements, Elements of Electrical Engg. / Electrical Science / Basic Electrical Engg.

EXTRA/CO-CURRICULAR ACTIVITIES

- Judge for the COGNITION 2K24 a State Level Project Exhibition for UG and PG on 5th January 2024 at E and C Department, BIET, Davanagere.
- Worked as Deputy Chief Superintendent (External) for B.E, M.Tech, M.C.A & M.B.A examinations from 7th to 18th August 2023 at UBDT College of Engineering, Davanagere.
- Worked as a Convener for National Level Five Days Faculty Development Program on Operational Planning in Electric Distribution Systems in association with IE (India) from 11/01/2021 to 15/01/2021.
- Worked as Internal Deputy Chief Superintendent for June-July-2018 and Dec-2018-Jan-2019 VTU examinations at B.I.E.T., Davanagere.
- Deputy Chief Superintendent (External) for B.E, M.Tech & M.B.A examinations during May - June 2015 at G.M.I.T, Davanagere.
- Judge for the ILLUMNATI-2014 National Level Student Technical Symposium on 28th March 2014 at S.K.S.V.M.A College of Engg, and Technology, Lakshmeshwar.
- Worked as Internal Deputy Chief Superintendent for Dec-2013 & Jan–2014 VTU examinations at B.I.E.T., Davanagere.
- Worked as Member of BOE of Kuvempu University (2012 and 2013)
- Deputy Chief Superintendent (External) for M.Tech examination during June - July 2007 at J.N.N.C.E, Shivamogga.

- Executive Committee Member for Staff Association B.I.E.T from October - 2006 to July – 2007.

RESIDENTIAL ADDRESS

Dr. BASAVARAJAPPA. S. R.

1962 / 36, 5th Cross, 2nd Main

Vinayaka Badavane, Vidyanagara, DAVANAGERE – 577 005