

Bharath Y.K.

Assistant Professor

Department of Electrical and Electronics Engineering

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Education	<p>(Ph.D.) in Electrical and Electronics Engineering (2022-pursuing) National Institute of Technology Karnataka, Surathkal - 575025 CGPA (Course Work): 9.66/10</p> <p>M. Tech in Computer Applications in Industrial Drives (2014-2016) National Institute of Engineering, Mysuru - 570 008 CGPA: 9.66/10 (First Rank with Gold medal)</p> <p>B.E. in Electrical and Electronics Engineering (2011-2014) Malnad College of Engineering, Hassan - 573 201 CGPA: 8.69/10</p> <p>Diploma in Electrical and Electronics Engineering (2008-2011) Smt. L.V. (Govt.) Polytechnic, Hassan - 573 201 Percentage: 84.8%</p> <p>Matriculation: SSLC CKS English Medium High School, Hassan - 573 201 Percentage: 88.64%</p>
Experience	<p>Assistant Professor, Department of E&E Engg., Malnad College of Engineering Salagame road, Hassan - 573 202. From 11 September 2019 - Present</p> <p>Assistant Professor (FTC), Dept of E&E Engg., National Institute of Engineering, Mananthavadi road, Mysuru - 570 008. From 31 August 2017 - 30 June 2019</p> <p>Assistant Professor, Dept of E&C Engg., R R Institute of Technology, Chikkabanavara, Bengaluru - 590. From 26 September 2016 - 28 July 2017</p> <p>Project Intern at DSP Laboratory, National Aerospace Laboratories (NAL), Bengaluru. From August 2015 - July 2016</p>
Research Interest	Battery Management Systems, Electric Vehicles, Active Noise Control, Renewable Energy Systems
Technical Skills	<p><u>Languages & Software:</u> Knowledge of Embedded C, MATLAB/Simulink, Labview, Latex, Proteus, Multisim, PSIM, Keil μ vision, CCS.</p> <p><u>Controllers and kits:</u> 8051, DSP C series and F series, Arduino.</p> <p><u>Algorithms:</u> ANN, Fuzzy Logic</p>

Awards	<p>First rank with Gold medal in M. Tech with CGPA of 9.66.</p> <p>First rank in Diploma CET under lateral entry scheme in Electrical and Electronics Engineering in the year 2011, conducted by Board of Technical Examinations.</p> <p>Best project award for the final year B.E. project titled “Enhancement of Power Quality by Optimal Placement of D-STATCOM to Mitigate Voltage Sags using Artificial Neural Networks”, from Malnad College of Engineering, Hassan.</p> <p>Teaching Assistantship under TEQIP-II from Dept. of E&E Engg, NIE, Mysuru during M.Tech.</p>
Projects	<p>M.Tech - “Robust Active Noise Control System for Fighter Aircraft Pilot Helmet Application” at National Aerospace Laboratories (NAL), Bengaluru.</p> <p>B.E. - “Enhancement of Power quality by optimal placement of D-STATCOM to Mitigate Voltage Sags Using Artificial Neural Networks”.</p> <p>Diploma - “PIC 16F72 Microcontroller based Dual Temperature Monitoring System”.</p>
Workshops Conducted	<p>Resource person for “One day workshop on Trends and Techniques in Artificial Neural Networks”, organized by Dept. of E&C Engg, RRIT, Bengaluru and sponsored by APPS Labz.</p>
Hobbies and interests	<p>Writing poems and short stories, reading novels, listening to music, hiking, trekking.</p>

Publications

Journals

1. Bharath Y.K., Purushothama G.K, **“Griffiths' Variable Learning Rate Online Sequential Learning Algorithm for Feed-forward Neural Networks”** - Automatic Control & Computer Science, Springer, Vol. 56, No. 2, pp 160-165, 2022.
2. Bharath Y.K., Veena S, **“Dynamic Active Noise Control for Broadband Noise in Fighter Aircraft Pilot Helmet”**, Sound & Vibration Journal, Tech Science Press.

Conferences

1. Bharath Y.K., Purushothama G.K, **“Power Quality Enhancement using ANN-based Optimal Placement of D-STATCOM in a Radial Distribution System”**, ISBN 978-93-84659-38-7, Proceedings of ICIAS-2015, pp-150-153, 28-29 Nov, 2015.
2. Bharath Y.K., Veena S, Nagalakshmi K.V, Manjunath Darshan, Rohini Nagapadma, **“Development of Robust VAD Schemes for Voice Operated Switch Application in Aircrafts”**, IEEE second International Conference on Applied and Theoretical Computing and Communication Technology (IEEE iCATccT 2016), ISBN 978-1-5090-2398-1, pp 189-193, 21-23 July, 2016.
3. Bharath Y.K., Chitrlekha G, Veena S, Loksha H, Nagalakshmi K.V, Dilna U, **“Robust Active Noise Control System for Fighter Aircraft Pilot Helmet Application”**, International Multi Conference on Information Processing, Published in Procedia Computer Science, Elsevier, Vol. 89C, pp 690-699, 19-21 Aug 2016.
4. Adithya Vyas, Radha R, Bharath Y.K., **“Development of Electrical Fence Energizer for a Farm Fencing System”**, IEEE fourth International Conference for Convergence in Technology (I2CT 2018), 27-28 Oct, 2018.
5. Sindhu Srinath, Bharath Y.K., **“A Multilevel Inverter Topology for Driving a Single Phase Induction Motor”**, IEEE fourth International Conference for Convergence in Technology (I2CT 2018), 27-28 Oct, 2018.
6. Amruta K.N., Bharath Y.K., Jayanthi J, **“Aircraft Engine Fuel Flow Parameter Prediction and Health Monitoring System”**, IEEE fourth International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT 2019), 17-18 May, 2019.
7. Balachandra R Jogi, Bharath Y.K., Anil A Kadle, **“A DC-DC Buck Converter for Standalone Solar DC Microgrid System using Perturb and Observe MPPT Algorithm”**, IEEE Global Conference for Advancement in Technology (GCAT), held on 18-20 October, 2019.
8. Bharath Y.K., Shruthi K.H., Dhavala R.K., **“Peltier Thermo-Electric Generator based Standalone Micro-Power Supply System”**, IEEE seventh International Conference on Electrical Energy Systems (IEEE-EES), 11-13 Feb, 2021.

FDPs and Workshops attended

1. One-week FDP on **“PLC & SCADA in Manufacturing”**, organized by Dept. of Mechanical Engg. and Industrial Production Engg., National Institute of Engineering, Mysuru Under TEQIP III, during 16/01/2018 to 20/01/2018.
2. One-week workshop on **“Smart Grid and Internet of Things”**, organized by Dept. of E&E Engg, National Institute of Engineering, Mysuru under TEQIP III, during 18/06/2018 to 22/06/2018.
3. AICTE Sponsored One-week STTP on **“Recent Developments in Renewable Energy Sources and Conversion System for On/Off Grid Applications”**, organized by Dept. of E&E Engg, Malnad College of Engineering, Hassan, during 09/12/2019 to 14/12/2019.
4. Two-week Swayam course on **“Digital Transformation in Teaching Learning Process”**, organized by IIT, Bombay, under TEQIP III, during 06/04/2020 to 22/04/2020.
5. One-week online certification course on **“Digital Teaching Techniques”**, organized by ICT Academy, during 29/06/2020 to 04/07/2020.
6. Five-day FDP on **“Power Electronic Applications to Renewable Energy Systems and Energy Storage Systems”**, organized by Dept. of E&E Engg, National Institute of Engineering, Mysuru under TEQIP III, during 06/07/2020 to 10/07/2020.
7. **IUCEE International Engineering Educator Certification Program Spring 2020**, conducted by Indo Universal Collaboration for Engineering Education (IUCEE), during December 2020 to August 2021.
8. Five-day online Short Term Training Programme on **“Power Electronics Applications to Industrial Systems”**, organized by Electrical Engineering Department, National Institute of Technology, Silchar under TEQIP III, during 07/09/2020 to 11/09/2020.
9. One-week online workshop on **“Inculcating Universal Human Values in Technical Education”**, organized by All India Council for Technical Education (AICTE), during 21/09/2020 to 25/09/2020.
10. One-week Faculty Development Program on **“Recent Developments in Power Systems”**, organized by Dept. of E&E Engg., Rajiv Institute of Technology, Hassan, during 23/11/2020 to 27/11/2020.
11. One-week STTP on **“Pedagogies of Online Teaching and Evaluation: Pre and Post COVID - 19”**, organized by Dept. of Management Studies, IIT Roorkee (TEQIP-III), during 07/12/2020 to 11/12/2020.
12. One-Week FDP on **“Recent Trends in Smart Grid & Renewable Energy Technology”**, organized by School of Electrical and Electronics Engineering, Reva University, Bengaluru, during 22/02/2021 to 26/02/2021
13. Five-day ATAL Academy online FDP on **“Recent Advancements in Sustainable Energy Storage and Conversion”**, organized by Manipal Institute of Technology, Manipal (AICTE), during 25/10/2021 to 29/10/2021.
14. Five-day ATAL Academy online FDP on **“ Research Perspectives: Renewable Energy in Electric Vehicle Charging”**, organized by Sri Ramakrishna Institute of Technology, Coimbatore (AICTE), during 22/11/2021 to 26/11/2021.
15. Five-day online FDP on **“Academic Writing”**, organized by St. Joseph Engineering College, Mangaluru, during 04/04/2022 to 08/04/2022.