


## Personal Profile

<b>Name of Faculty</b>	Dr. Priyashree S	
<b>Department</b>	Electrical & Electronics Engineering	
<b>Qualification</b>	B.E., M.E., (Ph.D)	
<b>Designation</b>	Associate Professor	
<b>Area of specialization</b>	Power Quality Analysis and Digital Signal Processing	
<b>Date of Joining BNMIT</b>	16.02.2004	
<b>Nature of Association (Regular/Contractual/Adjunct)</b>	Regular	
<b>e-mail</b>	<a href="mailto:piyashrees@bnmit.in">piyashrees@bnmit.in</a> , <a href="mailto:priyashree_suresh@yahoo.com">priyashree_suresh@yahoo.com</a>	
<b>No. of years of Experience</b>	Teaching:16 years	

### Academic Qualifications

- **Ph.D** (2019), Electrical & Electronics Engineering Sciences, VTU.
- **M.E.** (2004), Power & Energy Systems, UVCE, Bangalore University (**First Rank**).
- **B.E.** (2001), Electrical & Electronics Engineering, Dr. AIT, Bangalore University (FCD).

### Working Experience Details

- Associate Professor, Dept. of EEE, BNMIT, Bangalore, India, (5<sup>th</sup> March 2012 – Till date).
- Assistant Professor, Dept. of EEE, BNMIT, Bangalore, India, (17<sup>th</sup> January 2011 – 5<sup>th</sup> March 2012).
- Senior Lecturer, Dept. of EEE, BNMIT, Bangalore, India, (2<sup>nd</sup> January 2008 – 17<sup>th</sup> January 2011).
- Lecturer, Dept. of EEE, BNMIT, Bangalore, India, (16<sup>th</sup> February 2004 – 2<sup>nd</sup> January 2008).

### Courses taught

**UG Courses:** Signals & Systems, Digital Signal Processing, High Voltage Engineering, Power Electronics, Industrial Drives and Applications, Power System Analysis and Stability, Renewable Energy Sources, Transmission and Distribution, Switchgear and Protection, Electrical & Electronics Measurements.

**PG Courses:** Power Quality Issues and Mitigation, Electromagnetic Compatibility.

### Research Experience Details

#### Ph.D

The Thesis entitled “The Mathematical Modeling and Power Quality Improvement for Industrial Furnaces” was carried out under the guidance of Dr. Vidya H A, Professor, R&D, Department of EEE, Global Academy of Technology, Bengaluru, India. In this work, the SIMULINK model of Induction

Furnace and Electric Arc Furnace are developed using MATLAB/SIMULINK based on the schematic diagram at the installation. The implementation of passive and active filters was exhibited to reduce harmonics for the SIMULINK model of IF and EAF with SPWM, Hysteresis PWM and Sliding mode control PWM techniques. Also, Wavelet transform technique was applied to mitigate the harmonics for practically obtained data collected at the installation of IF and EAF. The implementation of wavelet transform technique for different wavelets was analyzed using Fuzzy Expert System.

#### **Academic Positions and other Responsibilities (University Level)**

1. **Deputy Chief Superintendent** (External) at SJB School of Architecture, Bangalore from 16 – 12 – 2019 to 28 – 12 - 2019 for the conduction of Dec / Jan 2019-2020 B.E./MBA examinations of VTU, Belgaum.
2. **Deputy Chief Superintendent** (External) at SJBIT, Bangalore from 26 – 05 – 2016 to 11 – 06 - 2016 for the conduction of June / July 2016 B.E./MBA examinations of VTU, Belgaum.
3. **Deputy Chief Superintendent** (External) at SJBIT, Bangalore from 15-07-2014 to 30-07-2014 for the conduction of June/July 2014 B.E. / MBA examinations of VTU, Belgaum.

#### **Academic Positions and other Responsibilities (College Level)**

1. Chief Test Coordinator: 2019-2020

#### **Academic Positions and other Responsibilities (Department Level)**

1. Department **Test** Coordinator: 2013-14
2. Department **Exam** Coordinator: 2014-15
3. Department Association (**ABEEE**) Coordinator: 2013-14, 2014-15
4. Department **Time Table** Coordinator: 2015-16
5. Department **VIII sem Technical Seminar** Coordinator: 2016-17
6. Department **Library** Coordinator: 2017-18, 2018-19, 2019-2020
7. Department **IQAC** Coordinator: 2018-19, 2019-2020
8. Department **Nature Club** Coordinator: 2018-19, 2019-2020
9. Department **IPL** Coordinator: 2017-18, 2018-19, 2019-2020
10. Department **VII & VIII sem Project** Coordinator: 2019-2020

#### **Experimental Skills**

- Capable of analyzing power quality of an electric system using power quality analyzer and provide suggestions / remedial measures for power quality improvement.

### **Software's handled:**

- **MATLAB / SIMULINK**
- **ORCAD / PSPICE**
- **MiPower**

### **Awards**

- **First Rank in M.E.**

### **Professional Memberships:**

- **Life Member, Indian Society for Technical Education (ISTE).**

### **Workshops /Seminars Organized:**

1. Convener-One week FDP on “AI applications in Electric Power Systems and Locomotives”, organized by BNMIT, Bengaluru, India, between 20<sup>th</sup> – 24<sup>th</sup> January 2020.
2. Convener-One week FDP on “Application of Computational Intelligence in Engineering”, organized by BNMIT, Bengaluru, India, between 24<sup>th</sup> – 29<sup>th</sup> June 2019.
3. Convener-One week FDP on “Modern Power Electronics: Design and Future Trends”, organized by BNMIT, Bengaluru, India, between 16<sup>th</sup>– 20<sup>th</sup>January 2017.
4. Convener –“International Conference on Power and Advanced Control Engineering 2015 (ICPACE 2015)”, 12<sup>th</sup>to 14<sup>th</sup>August 2015,BNMIT, Bengaluru, India.
5. Organizing Committee Member, Workshop on “Programmable Logic Controller & SCADA Systems” 19<sup>th</sup> to 23<sup>rd</sup>January 2015, BNMIT, Bangalore, India.
6. Organizing Committee Member, ‘Introduction to Research Investigations in Recent years in Electrical and Electronics Engineering’, 16<sup>th</sup>March 2009, BNMIT, Bangalore, India.

### **Research Publications:**

#### **I. National & International Journals**

##### **International Journals:**

1. Priyashree S, Vidya H.A, “Harmonic Reduction Analysis for Electric Arc Furnace using Passive Filters and DSTATCOM”, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-8 Issue-6, August 2019, Page No.:1620-1626.
2. **Priyashree S**, Vidya H.A, Sumathi S, Triveni M.T. “Wavelet Based Power Quality Analysis of Induction Furnace using Fuzzy Expert System”, International Journal of Scientific Research and Review(IJSRR), Volume 7, Issue 4, 2018 ISSN NO: 2279-543X, APRIL 2018.

3. **Priyashree S**, Harshithananda B, Vidya H.A, “Comparative Analysis of Hysteresis and Sliding Mode Controllers for Effective Reduction of Harmonics in Electric Arc Furnace Using APF”, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Vol. 5, Issue 4, ISSN(Online): 2320-9801, ISSN (Print): 2320-9798, APRIL 2017.
4. **Priyashree S**, Venkatesha K, Vidya H.A, Vijay kumar G, “Experimental Analysis of Single Phase Bidirectional AC Buck Converter for Power Quality Improvement”. International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol. 2, Issue 12, ISSN(Print) : 2320-3765, ISSN (Online) : 2278-8875, December 2013.
5. **Priyashree S**, Venkatesha K ,Vijay Kumar G, Vidya H.A, “Analysis and Mitigation of Harmonics in Non-Linear Loads using Passive Filters and Wavelet Transforms”. International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol. 2, Issue 12, ISSN(Print) : 2320-3765, ISSN (Online) : 2278-8875, December 2013.

## **II. National/International Conference Proceedings**

1. **Priyashree S**, Vidya H.A, Harshithananda B, “Mitigation of Harmonics using Hysteresis Control Technique of VSI Based Active Power Filter”, IEEE-International Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)”,GAT, Bengaluru, India, August 17 - 19th, 2017.
2. **Priyashree S**, Vidya H.A and K. Venkatesha, “Harmonic Analysis and its Elimination in Non Linear Loads Using Wavelet Transform”, International Conference on VLSI, Communication, Advanced devices, Signals & Systems And Networking, BNMIT, Bangalore, India, Jul 17<sup>th</sup> – 19<sup>th</sup> 2013.
3. **Priyashree S**, Vidya H.A, V Krishnan & K. Mallikarjunappa, “Denoising of Partial Discharge Signals in Epoxy Glass Mica Sheets using Wavelet Transform”, International Conference on Computer, Electrical and Systems Sciences, and Engineering, Penang, Malaysia, Feb 22<sup>nd</sup> – 24<sup>th</sup> 2011.

## **Papers presented in International/National Conferences**

### **International**

1. **Priyashree S**, Vidya H.A, Pooja A B and Mahesh E, “Harmonic Suppression in a Non-Linear Load using Three Phase Shunt Active Power Filter”, ISBN-978-93-84209-33-9,2016 Biennial International Conference on Power and Energy Systems:Towards Sustainable Energy (PESTSE), Amrita University, Bengaluru, India, 23<sup>rd</sup> Jan 2016.
2. **Priyashree S**, Vidya H.A and Triveni M.T, “Implementation of Wavelet Transform Technique for Detection and Reduction of Harmonics in an Induction Furnace”,ISBN-978-93-84209-33-9, ICITCE, IRAJ Research Forum, Bangalore, India, 5th July 2014.

### **National**

1. **Priyashree S**, Poornima, “Intelligent Hybrid DC Grid Realization for Solar Applications”, Two Day National Conference on “Emerging Trends in Engineering Sciences and Management NCESM-2016”,SIET, Tumakuru, India, 23<sup>rd</sup> and 24<sup>th</sup> Mar 2016.
2. **Priyashree S**, Pooja, Mahesh, “Performance Investigation of three phase shunt active power filter using Hysteresis Current Control Method”, 6<sup>th</sup> National Conference on “Advanced Technique in Electrical and Electronics Engineering NCATEE-15”,SJBIT, Bengaluru, India, 9<sup>th</sup> May 2015.
3. **Priyashree S**, Pooja, Mahesh, “Harmonic Suppression in Non-linear loads using three phase shunt active filter with sliding mode controller”, 6<sup>th</sup> National Conference on “Advanced Technique in Electrical and Electronics Engineering NCATEE-15”,SJBIT, Bengaluru, India, 9<sup>th</sup> May 2015.
4. **Priyashree S**, Vidya H.A, & Sujatha B.C, “ Performance Analysis of Three Phase Induction Motor Under V/F Control using MATLAB”, National Conference of Energy Systems and Energy Issues-2011 (ESEI-2011), BMSCE, Bangalore, India, February 18th and 19th 2011.

### **Invited Talks:**

1. Invited as resource person to deliver a talk on “Power Quality in Industrial Furnaces” during the Faculty Development Program on “Electrical Power Quality and Distributed Generation” at JNNCE, Shivamogga on **17<sup>th</sup> Dec 2019**.

### **Participation in ONLINE Training courses/ Webinars /Workshops**

1. Online Certification Program on “Artificial Intelligence”, held from 11<sup>th</sup> May 2020 to 15<sup>th</sup> May 2020, organized by AGIMUS Technologies, Bengaluru.
2. **Distinguished Webinar series, held from 29<sup>th</sup> May 2020 to 3<sup>rd</sup> June 2020, conducted by IEEE-BNMIT in Association with Nano Cell Technology.**
3. Webinar on “Operation & Maintenance of Solar Electric Systems”, conducted by Dept. of EEE, BIT, Bengaluru in Association with TATA POWER SOLAR SYSTEMS LTD, on 9<sup>th</sup> June 2020.
4. Webinar on “Industry 4.0”, conducted by Dept. of EEE, SJBIT, Bengaluru on 13<sup>th</sup> June 2020.
5. Webinar series on “Understanding Power System Simulation Concepts Through Case Studies”, organized by IEEE PES-IAS Chapter Delhi Section and PES India Chapter Council, held from 22<sup>nd</sup> June 2020 to 26<sup>th</sup> June 2020.
6. Webinar series on “Home Automation System - KNX”, organized by School of Electrical Engineering KIIT, Bhubaneshwar & Schneider Electric India, held on 1<sup>st</sup> and 2<sup>nd</sup> July 2020.
7. Webinar on “Power Monitoring Expert”, organized by School of Electrical Engineering KIIT, Bhubaneshwar & Schneider Electric India, held on 3<sup>rd</sup> & 4<sup>th</sup> July 2020.

8. Webinar on “Evolution of Modern Power Systems and it’s Challenges”, by Dr. Ramesh Babu, Professor, Dept. of EEE, St. Joseph College of Engineering, Chennai, organized by Department of EEE, St. Mother Theresa Engineering College, Vagaikulam ,Tuticorin on 15<sup>th</sup> July 2020.
9. Online FDP on “International Webinar on AI Applications in Industry 4.0”, organized by Dept. of EEE, BIT, Bangalore, from 13<sup>th</sup> July to 17<sup>th</sup> July 2020.
10. Webinar on “Human Values and Relationship between Student and Teacher”, organized by Department of EEE, VVCE, Mysore, on 23<sup>rd</sup> July 2020.
11. Webinar on “Role of the Smart Grid in Facilitating the Integration of Renewables”, organized by GU Centre of Excellence Power Engineering and Clean Energy Integration in collaboration with IIEEE SB Galgotias University, on 27<sup>th</sup> July 2020.
- 12.
- 13.

### **Online Quiz:**

1. Online Quiz on “Yoga Awareness”, conducted by Electrical & Electronics Engineering Outreach Club, Dept. of EEE, VVCE, Mysore, on 26<sup>th</sup> June 2020.
2. Online Quiz on “Ek Bharat Shreshtha Bharat - National Level e-Quiz on Uttarakhand”, conducted by BNMIT, on 16<sup>th</sup> July 2020.
- 3.

### **Participation in Training courses/Seminars/Workshops**

1. Faculty Development Program on “AI applications in Electric Power Systems and Locomotives”, organized by BNMIT, Bengaluru, India, 20<sup>th</sup> – 24<sup>th</sup> January 2020, organized by BNMIT, Bengaluru, India.
2. Industry Academia Interface on “Imperatives of Engineering Education: Enhancing Skills and Employability”, July 19<sup>th</sup> 2019, held at BNMIT, Bengaluru, India, in Association with The Institution of Engineers(India), Karnataka State Centre.
3. Faculty Development Program on “Working Model on Industry 4.0”, 08 – 07-2019 to 12- 07 - 2019, organized by Nettur Technical Training Foundation (NTTF), Bengaluru, India
4. Faculty Development Program on “Application of Computational Intelligence in Engineering”, organized by BNMIT, Bengaluru, India, 24<sup>th</sup> – 29<sup>th</sup> June 2019, organized by BNMIT, Bengaluru, India.
5. Two Day Workshop on “Assessments for the Introductory Programming Course”, Dec 18<sup>th</sup> & 19<sup>th</sup> 2018, organized by BNMIT, Bengaluru, India, in association with BITES.

6. One day Workshop on “New Model Curriculum for PG Course (MTech/MBA/MCA) CBCS Detailed Syllabus (2018-19) as per Outcome Based Education (OBE) format including Course Outcomes (CO) and Blooms’ Taxonomy”, under TEQIP-1.3, organized by VTU, Belagavi, 6th August 2018, BNMIT, Bengaluru, India.
7. Two Day Workshop on “A to Z Transformer Design”, Feb 17<sup>th</sup> & 18<sup>th</sup> 2018, BNMIT, Bengaluru, India.
8. Two Day Workshop on “Digital Signal Processing Lab”, 23<sup>rd</sup> to 24<sup>th</sup> January 2018, RNSIT, Bengaluru, India.
9. Faculty Development Program on “Modern Power Electronic Drives: Design & Future Trends”, Jan 16<sup>th</sup> to 20<sup>th</sup> 2018, BNMIT, Bengaluru, India.
10. Faculty Development Program on “Role of IT in Power Sector”, 9<sup>th</sup> to 13<sup>th</sup> January 2017, BNMIT, Bengaluru, India.
11. Conference on “CITIES IN TRANSITION” CWF-2016, 28<sup>th</sup> to 30<sup>th</sup> November 2016, held at Palace Grounds, Bengaluru, India.
12. Faculty Development Program on “Integration of Green Energy to Smart Grid – Opportunities and Challenges”, 11<sup>th</sup> to 16<sup>th</sup> July 2016, BNMIT, Bangalore, India.
13. Workshop on “Recent Trends in Power Quality Issues and Mitigations in Electrical Systems” 18<sup>th</sup> to 23<sup>rd</sup> January 2016, BNMIT, Bengaluru, India.
14. Workshop on “Preparation for Accreditation by NBA” 3<sup>rd</sup> to 5<sup>th</sup> December 2015, BNMIT, Bengaluru, India.
15. Workshop on “Programmable Logic Controller & SCADA Systems” 19<sup>th</sup> to 23<sup>rd</sup> January 2015, BNMIT, Bangalore, India.
16. Faculty Development Program on ‘IT Infrastructure Management Services’, 5<sup>th</sup> to 9<sup>th</sup> January 2015, BNMIT, Bangalore, India.
17. Workshop on ‘Power Quality and Custom Power Devices’, 3<sup>rd</sup> to 7<sup>th</sup> June 2013, RVCE, Bangalore.
18. International Workshop on ‘Power Quality Issues and Challenges’, 18<sup>th</sup> and 19<sup>th</sup> November 2011, CPRI, Bangalore, India.
19. Workshop on ‘Research Methodologies & Latex’, 5<sup>th</sup> and 6<sup>th</sup> August 2011, VTU e-learning center, VTU Belgaum, India.
20. ‘Research Workshop on Signal and Image Processing, 28<sup>th</sup> and 29<sup>th</sup> January 2010, BNMIT, Bangalore, India
21. ‘Introduction to Research Investigations in Recent years in Electrical and Electronics Engg’, 16<sup>th</sup> March 2009, BNMIT, Bangalore, India.
22. ‘Advancements in High Power Drives’, 21<sup>st</sup> and 22<sup>nd</sup> November 2008, UVCE, Bangalore.

23. 'Power Electronics and Power Management', 4<sup>th</sup> and 5<sup>th</sup> June 2008, SJCE, Mysore
24. 'Renewable Energy for Electrical Power Generation and Thermal Applications', 31<sup>st</sup> August to 1<sup>st</sup> September 2007, MSRIT, Bangalore
25. Workshop on 'Power System Protection', 23<sup>rd</sup> and 24<sup>th</sup> February 2007, SSIT, Tumkur, India.
26. Seminar on 'e- Education', 3<sup>rd</sup> June 2006, RVCE, Bangalore, India.
27. Seminar on 'Current Trends in Transmission and Distribution of Electrical Power', 10<sup>th</sup> to 11<sup>th</sup> March 2006, NHCE, Bangalore, India.
28. Workshop on 'Power System Protection – Recent Industrial Practices', 19<sup>th</sup> October 2005, MSRIT, Bangalore, India.
29. Workshop on 'Emerging trends in applications of Electrical and Electronics Engineering' 28<sup>th</sup> May 2005, MVJCE, Bangalore, India
30. Quality Improvement Program on 'Instructional Design and Delivery', 8<sup>th</sup> to 14<sup>th</sup> August 2004, BNMIT, Bangalore, India.
31. Short Term Training Program on 'Recent Trends in Electrical Engineering.' 23<sup>rd</sup> to 28<sup>th</sup> February 2004, Nitte Institute of Technology, Bangalore, India.

#### **Visits Abroad:**

14. Visited Penang, Malaysia, as a co-author along with guide Dr. Vidya H.A, to deliver lecture on "Denoising of Partial Discharge Signals in Epoxy Glass Mica Sheets using Wavelet Transform", at the International Conference on Computer, Electrical and Systems Sciences, and Engineering, held between 22<sup>nd</sup> to 24<sup>th</sup> February 2011.

#### **Personal Details:**

- **Date of Birth:** 02 - 10 - 1979
- **Gender:** Female.
- **Father's Name:** M.V. Suresh (Retd. JIO, Bharat Electronics, Bangalore)
- **Mother's Name:** Smt. S. Vasantha, Homemaker.
- **Husband's Name:** M.N. Sridhar (Regional Manager, Tungaloy India Pvt. Ltd, Mumbai)
- **Daughters' Name:** Ms. Dhanyatha S Sharma and Ms. Dheeptha S Sharma
- **Passport Number:** B3156667

**16<sup>th</sup> August 2020**

**Dr. Priyashree S**