


Faculty Profile

Name of Faculty	Dr. R V Parimala	
Department	Electrical & Electronics Engineering	
Qualification	B.E., M.Tech., Ph.D.	
Designation	Professor & Head	
Area of specialization	Power System, Distribution Automation Artificial Intelligence application to Power System An Colored Petri Net	
Date of Joining BNMIT	20.01.2016	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
e-mail	rvparimala@bnmit.in parimalaritti@gmail.com	
No. of years of Experience	Teaching:30 years Research:6 years	

Academic Qualifications

- **Ph.D.** in the field Distribution Automation at Research centre of Sri Jayachamarajendra College of Engineering, Mysore under Visveswaraya Technological University (2004-2014), India
- **M.Tech** in Power System at National Institute of Engineering, Mysore under Mysore University (1994-1996) **FCD** India
- **B.E.** Electrical & Electronics at Sri Jayachamarajendra College of Engineering, Mysore under Mysore University (1981-1985) **FCD** India

Working Experience Details

- Professor & HOD B N M Institute of Technology, Bengaluru 20th Jan 2016 Till date
- Professor & HOD, Dayananda Sagar Academy of Technology & Management, Bangalore Dec 2014 - 18th Jan 2016
- Associate Professor & HOD, Dayananda Sagar Academy of Technology & Management, Bangalore 2012-2014
- Asst. Professor, Dayananda Sagar College of Engineering, Bangalore 2007-2012
- Selection Grade Lecturer, Dayananda Sagar College of Engineering, Bangalore 2005-2007
- Lecturer, Dayananda Sagar College of Engineering, Bangalore **1996***-2005
- Lecturer, Dayananda Sagar College of Engineering, Bangalore 1991-**1994***
- Lecturer – Adhoc, BMS College of Engineering, Bangalore 1989-1991
- Lecturer on contract basis, Sri Jayachamarajendra College of Engineering, Mysore 1986-1989

***Break from 1994 to 1996 to facilitate completion of M.Tech**

Courses Taught:

1. Undergraduate Courses: Basic Electrical Engineering, Network Analysis, Electrical & Electronics Measurements, DC Machines & Transformers, Analog Electronic Circuits, Microprocessor 8085, Microcontroller, Control Systems, Switchgear & Protection, Utilization of Electrical Power, Management, Operational Amplifiers & Linear Integrated Circuits, Computer Organization, Computer Techniques in Power System Analysis, Power System Operation & Control, Estimation & Costing.

2. Post Graduate Courses: Power Electronic System Design using ICs, Digital Measurements, Power Supply Systems, and Dynamics of Linear Systems.

Research Experience Details:

Research conducted on the topic “**Knowledge Based Optimal Method of Service Restoration at Substation using Petri Net Model**”. This research concentrated on (i) Developing an artificially intelligent colored Petri net (CPN) model to find optimal switching operations for service restoration during overload condition and system contingency i.e. line open condition and for load balancing among the feeders of the distribution system. (ii) Modeling several distribution systems available in the literature and the rural distribution systems of India using CPN modeling technique. (iii) Developing an algorithm for unbalanced three phase load flow problem and testing the algorithm on power systems.

Research Supervision

Sl. No.	Name of the student	Ph.D	University	Year of completion	Title of Research Topic
1	Ratna. B	Ph.D.	VTU, Belgaum	pursuing	Optimal Restructuring of Distribution Network with Dispersed Distributed Generation
2	K Raghunath Reddy	Ph.D.	VTU, Belgaum	pursuing	Real Time Distribution System State Estimation using Synchrophasor Measurement

Research Projects

Completed

Title: Development of Appropriate Algorithms for Efficient Management of Energy Control Centres

Funding Agency: CPRI, Under RSoP, Government of India.

Amount: 9.5 Lakhs

Duration: 02 years (2011–2013)

Academic Positions and other Responsibilities (University Level):

- Member – BOS, VTU for the term 2016-2019
- Course coordinator - EDUSAT program, VTU e-learning center for the course Electrical Circuit Analysis of 3rd Semester.
- Member – BOE, VTU for the academic year 2015-16.
- Member, Ph.D. synopsis scrutiny committee, VTU (scrutinized on 13th December 2016).

Academic Positions and other Responsibilities (Institute Level):

1. **Chief Superintendent** at BNMIT, Bangalore from 06-07-2017 to 17-07-2017, for the conduction of June 2017 B.E. examinations of VTU, Belgavi.
2. **Member**, Anti ragging Committee, BNMIT (2016-17).
3. **Member**, Research Committee, BNMIT (2016-17).

4. **Chairman**, College Internal Complaints Committee for Anti Sexual Harassment, BNMIT (2017-18)
5. **Chief Superintendent** at DSATM, Bangalore from 26-12-2015 to 10-01-2016 for the conduction of Dec 2015 B.E. examinations of VTU, Belgavi.
6. **Chief Superintendent** at DSATM, Bangalore from 11-06-2015 to 20-06-2015 for the conduction of May-June 2015 B.E. examinations of VTU, Belgaum.
7. **BOS Member**, Electrical & Electronics, Board of Studies, Alliance College of Engineering Design, Alliance University, Bangalore.
8. **Member – BOE**, Dayananda Sagar College of Engineering (Autonomous), Bangalore 2017-18.

Awards/ Achievements/Memberships:

Best research paper award for the technical paper “**Optimal switching operation using knowledge based colored Petri net**”, presented in international conference held from 20th -22nd July 2011, **IET Chennai 2nd International Conference SEISCON 2011 (Sustainable Energy and Intelligent System Conference)**, Dr.M.G.R Educational and Research Institute- University, Maduravoyal, Chennai-600095, .Tamil Nadu, India.

Workshops /Seminars Organized:

- Organising Chair for Four Days Workshop on “**Design & Development of Embedded System for Real life Application** ” during 10th & 13^h July 2018 at BNMIT campus
- Organising Chair for Two Days Workshop on “**A-Z of Transformer Design**” during 17th & 18th February 2018 at BNMIT campus
- Organising Chair for Five Day Faculty Development Program on “**Modern Power Electronic Drives: Design & future Trends** ” during 16th to 20th January 2018 at BNMIT campus
- Organising Chair for Five Day Faculty Development Program on “**Role of IT in Power Sector**” during 9th to 13th January 2017 at BNMIT campus.
- Organising Chair for Five Day Faculty Development Program on "Integration of Green Energy to Smart Grid - Opportunities & Challenges" during 11th to 16th July 2016 at BNMIT campus

Research Publications:

I. In National & International Journals

International Journals:

1. Mrs. R.V.Parimala & Dr. K.L.Puttabuddhi, “**Knowledge Based Colored Petri Net Approach for Deciding Distribution System Switching Operation.** ”, IJEEE, ISSN 0974-2042, Vol. 8, Issue No.1, pp.11-19, Dec. 09-Feb. 10.
2. Kiran. R, Dr.B.R.Lakshmikantha & R.V. Parimala, “**Observability and Controllability of a power system by optimizing the performance of PMUs and FACTS controllers.**”, Published in IJAREEIE, volume 2, issue 6, june 2013, pp.2601-2610
3. Akshay B & Dr. R V Parimala, “The Modified SEPIC Converter with Extra Boost Unit and Without Coupling Inductor for PV Application”, IJRASET, Volume 5, Issue V, May 2017

II. In National/International Conference Proceedings

- Mrs. R.V.Parimala & Dr. K.L.Puttabuddhi, “**Petri Nets – A Powerful Tool**”, National level seminar in November, 2005 titled “Modern Trends in Power Systems” conducted by Dept. of E&EE, Dayananda Sagar College of Engg. Bangalore.

- Mrs. R.V.Parimala & Dr. K.L.Puttabuddhi, “**Three Phase Load Flow for Distribution System**”, during a National Symposium on “**Scenario of Scientific & Information Technology in Power & Electronic Systems**” conducted by Dept. of E&EE, DSCE, Bangalore & co sponsored by CPRI, Bangalore during 3rd & 4th April 2008.
- Mrs. R.V.Parimala & Dr. K.L.Puttabuddhi, “**A fast power flow algorithm for radial distribution system**”, National Conference on Soft Computing Techniques in Power System Operation and Control. SoftComp’09, Vellore *Institute of Technology, Vellore University, Vellore. Tamilnadu.* during 22 - 24 July 2009.
- Mrs. R.V.Parimala & Dr. K.L.Puttabuddhi, “**Colored Petri Net Approach for Distribution System Network Reconfiguration**”, 19th -22nd Aug. 2010, International conference on System dynamics and control, **Manipal Institute of Technology, Manipal University, Karnataka - India 576 104.**
- Mrs. R.V.Parimala, Manasa.S & V. Chayapathi, “**Advanced Pulse Width Modulation Techniques for Cascaded Multilevel Inverters**” in National Conference on Advances in Electronics & Intelligent computing 2011 held on 2-05-2011 at East West Institute of Technology, Bangalore.
- Mrs. R.V.Parimala & Dr. K.L.Puttabuddhi, “**Optimal switching operation using knowledge based colored Petri net**”, IET Conf. Pub. **CP583**, 826 (2011), 20th -22nd July 2011, IET Chennai 2nd International Conference SEISCON 2011 (Sustainable Energy and Intelligent System Conference), Dr.M.G.R Educational and Research Institute- University, Maduravoyal, Chennai-600095, .Tamil Nadu, India, **Awarded as the Best research Paper.**
- Mrs. R.V.Parimala, Manasa.S & V. Chayapathi, “**Advanced Pulse Width Modulation Techniques for Cascaded Multilevel Inverters**” Second International Conference on Sustainable Energy and Intelligent System (SEISCON 2011), held on July 20-22, 2011 at Dr. M.G.R. University, Maduravoyal, Chennai, Tamil Nadu, India 2011. (CP583), ISBN: 978-9-38043-000-3 , p259 -264, I1.
- Mrs. R.V.Parimala, Manasa.S & V. Chayapathi, National Conference on “**Advanced Control in Engineering Systems (NACES-11)**” held on September 21-23, 2011 at M.S Ramaiah Institute of Technology, Bangalore.
- Mrs. R.V.Parimala, Manasa.S & V. Chayapathi, “**Multicarrier based Pulse Width Modulation Techniques for Cascaded Multilevel Inverters**”, Conference on Recent Investigations in Electrical Engineering using Experimental and Computational Techniques (NCRE³CT-2011), held on October 14, 2011 at B.N.M Institute of Technology, Bangalore
- Kiran. R & R.V. Parimala, “**Optimal placement of PMUs for system monitoring and FACTS devices in the power system for voltage stability**”, 4th National Conference on Power sector scenario and Challenges (NPSS 2012), organized by Dept. of E&EE, Vasavi College of Engineering, Hyderabad, Andhra Pradesh on 4th April 2012.
- Kiran. R & R.V. Parimala, “**Placement of PMUs and FACTS controllers in the power system**”, National Conference on Emerging trends in Engineering & Technologies, organized by Jyoti institute of Technology, Bangalore.
- Kiran. R & R.V. Parimala, “**Optimal placement of PMUs and FACTS controllers in the power system for the complete system observability and stability**”, 8th National Conference on Efficient Power Generation and Conversion “Efficient Electrical Systems” (NCEPGC – 2012), organized by Dept. of E&EE, K.S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India, on 16th March 2012.
- Kiran. R , Dr.B.R.Lakshmikantha & Dr.R.V. Parimala “**A Novel Software Model for Enhancement of System Performance and Security through an Optimal Placement of PMU & FACTS.**”, 3rd IEEE International Students’ Conference on Electrical, Electronics and Computer, Science (SCEECS-

2016), held on 5-6 March 2016, at Maulana Azad National Institute of Technology(MANIT) Bhopal, India.

- Kiran. R , Dr.B.R.Lakshmikantha & Dr. R.V. Parimala “**A Software Model for power system operation & control.**” International Conference on Intelligent and Autonomous Systems (ICIAS2015) at MCE, Hassan under TEQIP on 28th, 29th November 2015.
- Dr. R V Parimala, “**Smart DC micro grid for effective utilization of solar energy**” 1st International Conference on reliable Technologies in Power & Energy Systems, held on 4th April 2016 (RTPES-2016) at AMC college of Engineering, Bengaluru
- Mr. K Raghunath Reddy, Dr. R V Parimala “Identification Faults on Transmission Line by using Phasor Measurement Unit (PMUs)” IJLRET ISSN: 2454 -5031 PP. 140-144 NC3PS-Aug-2016.

Invited Talks Delivered:

- Delivered the lectures for the course “Electrical Circuit Analysis” through **EDUSAT program-21, VTU e-learning center, Bangalore on 21st, 22nd, 23rd, 26th, 27th, & 28th of September & 2nd, 3rd, 4th, & 5th of November 2016.**
- Delivered the lectures for the course Electrical & Electronic Measurement through **EDUSAT program, VTU e-learning center, Bangalore from 04/08/2011 to 11/11/2011.**
- Delivered a Lecture on “**Distribution Automation**” at a National Workshop on 2nd March 2012, Conducted by the department of E&EE, DSCE.
- Delivered a Technical Talk on the topic “**Microprocessor**” for Mechanical students on 18th April 2009, Department of Mechanical Engineering, DSCE
- Delivered guest lectures for students of **IGNOU** and taught BTCM 1st year students “**Principle of Electrical Sciences**” during April 2010 to June 2010.

Chairmanships at National/International Conference/Seminars:

1. Session Chair for third edition of **Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE-2018)** on 19th January 2018 at Amrita School of Engineering, Bengaluru .
2. Session Chair for Second National conference on “**Sustainable Emerging Intelligent Technologies**” (SEITCON-2017) on 26th to 28th May 2017 at DSCE campus.
3. Session Chair for the National Conference on “**Convergence of Science, Technology & Management**”, held at DSATM, Bengaluru on 05/05/2016.
4. Session Chair for National conference on '**Sustainable Emerging Intelligent Technologies**' (SEITCON-2016) on 22nd and 23rd Feb. 2016 at DSCE campus.
5. Session Chair for the National Conference on “**Green Computing Technologies**” held at DSATM, Bengaluru on 07/05/2015.
6. Session Chair for the National Conference on “**Horizons in Power Engineering**” held at KSSEM, Bengaluru on 29/04/2015

Participation in Training courses/Seminars/Workshops

- Workshop on **AICTE Model Curriculum** on 6th August 2018 at BNMIT, Bengaluru
- Workshop on **AICTE Model Curriculum** on 14th May 2018 at MSRIT, Bengaluru
- Workshop on **AICTE Model Curriculum** on 12th March 2018 at BMSCE, Bengaluru
- Workshop on “Patenting” on 11th April 2018 at BNMIT, Bengaluru sponsored by NSTEDB Department of Science & Technology, Government of India,
- Two day **Workshop on Taxonomy & Course Outcomes** on 9th and 10th January 2017 at VTU regional Office, Bengaluru.
- Three days training programme on **Power System Simulation Studies using MiPower™ software** from 16th to 18th Oct 2014 at DSATM, Bengaluru

- One day training programme on “**Empowered Leadership Program**” on 31st July 2012 at DSATM, Bengaluru
- Mission 10X workshop for “**Innovation & leadership**” from 18th Feb. 2008 to 22nd Feb. 2008 at DSCE, Bengaluru
- Short term training programme on “**Microcontrollers & HDL Lab**” from 30th Jan to 1st Feb 2008 at RNS Institute of Technology, Bengaluru.
- One day training on ISO9001:2000 **QMS Internal Audit Course** by Qualinit Consultants on 26th May 2004 at DSCE, Bengaluru.
- Two day workshop on “**Microprocessor Laboratory**” on 20th & 21st April 2001 at Basaveshwara Engineering College, Bagalkot.
- Two day workshop on “**PSPICE Simulation**” on 12th & 13th April 2000 at BMS College of Engineering, Bengaluru

Personal Details:

- **Date of Birth:** 26 - 05 –1963; **Sex:** Female.
- **Husband:** Sri. Suresh Katte
- **Daughter:** Aishwarya S

13th August 2018

R V Parimala