

S.B.BHARATHI

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Career Objective

To contribute meaningfully to an academic career as an Assistant Professor by combining technical expertise, a passion for teaching and a commitment to supporting institutional growth.

Summary of Qualification:

- Completed **M.E. in Power Electronics and Drives** from *Alagappa Chettiar College of Engineering and Technology, Karaikudi* with **82%**.
- Completed **B.E. in Electrical and Electronics Engineering** from *Syed Ammal Engineering College, Ramanathapuram* with **85.4%**.
- **Second Rank holder** in undergraduate studies at the college level.
- Achieved **13th rank** in *Madurai Kamaraj University*.
- Strong interest in exploring and applying new trends and techniques in **Electrical Power Generation, Transmission, and Distribution**.
- Proven ability to **work under pressure and meet tight schedules**.

Professional Experience

Assistant Engineer, TANTRANSCO Ltd.

(i) Substation Maintenance (2020-2025)

- Performing preventive maintenance and diagnosing electrical faults to ensure optimal system performance.
- Provided technical guidance to maintenance technicians to improve diagnostic accuracy and equipment performance.

(ii) Distribution (2017-2020)

- Section Engineer in TNPDC plays a vital role in maintaining uninterrupted power supply to the consumers.
- Responding immediately in clearing the fault while strictly adhering to safety protocols.

Associate Professor (2012-2017)

- Committed to student learning and success.
- Taught courses at under graduate level
- Contributed as Project coordinator for the under graduate student.

Assistant Professor (2010-2012)

- Advised and mentored students of Electrical Engineering
- Contributed to a strong commitment to teaching
- Contributed to the department in the NBA Accreditation and ISO works.

Lecturer (2003-2010)

- Participated in various faculty development programs to enhance subject knowledge.

- Trained in MATLAB and AUPower Lab software in applied to solve power system problem.

Summary of Education

Alagappa Chettiar College of Engineering & Technology

Karaikudi

Master of Engineering in Power Electronics and Drives

2006-2008

- *Percentage of marks-82%*

Syed Ammal College of Engineering

Ramanathapuram

Bachelor of Engineering in Electrical & Electronics

1998-2002

- *Percentage of marks-85.4%*

Project Works

- **UG Project**
Digital Based Solar Power Generation and Auto Tracking System
Maximization of efficiency in Solar power module by using auto tracking system.
- **PG Project**
Bifurcation Analysis and Control of Chaos in DC-DC Buck converter
Nonlinear behaviour of Buck converter is simulated using MATLAB and experimentally Verified. Time Delay controller implemented in Buck converter to control the Bifurcation and Chaos.

Subjects Handled

- **UG Level**
Circuit Theory
Electrical Machines –I
Power System Analysis
Electronic Devices and Circuits
Transmission and Distribution
Control System
Power Plant Engineering
Static Relays
Special Machines
- **PG Level**
Modeling and Analysis of Electrical Machines
- **Areas of Interest**
Power electronics
Electrical machines
Circuit theory
Power systems

Membership in Professional Bodies

- Life Member of the Indian Society for Technical Education (ISTE)
- Associate Member of The Institution of Electronics and Telecommunication Engineers

Papers Published in Journals

1. Bharathi, Jessi Sahaya Shanthi “Analysis and Control of Bifurcation in Permanent Motor DC Drive”, Journal of Electrical Engineering, Vol. 20, Iss.1, pp 59-71, 2020.
2. Ramela, Bastin, Bharathi “Maintaining Constant DC Link Voltage of Adjustable Speed Drive using CUK Converter”, Asian Journal of Research in Social Sciences and Humanities, Vol.6, Iss. No.7, Pp 608-617, July 2016.
3. Jeya Saravanan, Bharathi, Karthikeyan, Samuel “Influence of Site Roughness Parameters on the Energy Efficiency on Single and Multiple Column Wind Farms”, International Journal of Applied Engineering Research, Vol.10, Iss. No.55, Pp. 3583-3590, May 2015.
4. Vinoth, Mathankumar, Saravanan, Bharathi, “Enhancement of Road Service Utilisation by Inductive Loop Method”, International Journal of Applied Engineering Research, Vol.10, Iss. No.55, Pp. 947-952.
5. Ilango, Jeyasaravanan, Bharathi, “Encryption on Prediction of Medical Data for CVD Disease in Cloud Environment”, International Journal of Applied Engineering Research Vol.10, Iss. No.55, Pp 2398-2402, May 2015.

Papers Published in Conferences

1. Ramela, Bharathi, Karthick, “Evolutionary Algorithm Based Optimal Design of PMBLDC using COMSOL”, ICDASDC 2016 Conference Proceedings.
2. Ramela, Bharathi, Karthick, “Ride Through of Adjustable Speed Drive during Dip and Swell Conditions”, ICDASDC 2015 Conference Proceedings.
3. Ramela, Bharathi, Karthick, “Nine Level Voltage Source Inverter with Single DC Source Using Minimum Number of Bidirectional Switches”, NCEPEER 2016 Conference Proceedings.
4. Bharathi, “Bifurcation Analysis and Control of Chaos in a DC-DC Buck Converter”, PCTCON 2008 Conference Proceedings, Pp. 86-91.
5. Bharathi, Jessi Sahaya Shanthi, “Analysis and Control of Chaos in Switched Reluctance Motor Drive”, ICIEES 2013 Conference Proceedings, Pp. 96-101.
6. Bharathi, Jessi Sahaya Shanthi, “Comparative Evaluation on Converters of SRM Drive under Various Loading Conditions”, ICACCCT 2016, IEEE Explore, Vol.26, Iss. No.39, Pp 416-421, Jan 2017.

Programs Attended

FDPs Attended

- Power Electronics conducted by Centre for Faculty Development, Anna University, MEPCO SCHLENK Engineering College, 09 -13 June 2003.
- Power System Analysis conducted by KLN College of Information Technology, 19-23 January 2010.
- High Voltage Engineering conducted by KLN College of Information Technology, 31 August 2012.
- Solid State Drives conducted by Centre for Faculty Development, Anna University, Syed Ammal Engineering College, 30 Nov -06 December 2015.
- Transmission and Distribution conducted by Centre for Faculty Development , Anna University at KLN College of Information Technology, 29 December 2014-04 January 2015.

- SCILab for Engineers conducted by KLN College of Information Technology, 23-24 January 2017.
- Embedded Systems conducted by KLN College of Information Technology, 30 Aug 2013.
- Flexible AC Transmission Systems conducted by KLN College of Information Technology, 30 January 2014.
- Advanced Control Systems conducted by KLN College of Information Technology, 30 September 2015.
- Foundation Course in Computational Algorithm and MATLAB Applications conducted by KLN College of Information Technology, 5-6 November 2009.
- Renewable Energy Sources conducted by KLN College of Information Technology, 25 January 2011.
- Recent Trends in Power System and Electronics conducted by KLN College of Information Technology, 28-29 September 2011.

Workshops Attended

- TEQIP Sponsored workshop on Signal Processing conducted by Algappa Chettiar College of Engineering and Technology on 20 April 2007.
- TEQIP Sponsored Special Lecture on Power Electronics and Drives conducted by Algappa Chettiar College of Engineering and Technology on 6 October 2006.
- TEQIP Sponsored workshop on embedded systems conducted by Algappa Chettiar College of Engineering and Technology on 11 May 2007
- TEQIP Sponsored workshop on insight into PLC and its applications conducted by Algappa Chettiar College of Engineering and Technology on 18 May 2007
- TEQIP Sponsored workshop on MATLAB in engineering applications conducted by Algappa Chettiar College of Engineering and Technology on 24-25 September 2008
- TEQIP Sponsored short term course on special machines and drives conducted by Algappa Chettiar College of Engineering and Technology from 13-17 November 2006
- Short term course on real time controller design using TI C2000 Microcontroller organised by National Institute of Technology Trichy during 26-28 September 2014
- TEQIP Sponsored workshop on design of electric drives conducted by Thiagarajar college of Engineering on 31 January 2014-1 February 2014
- TEQIP Sponsored workshop on research paper writing conducted by Thiagarajar college of Engineering on 29 August 2016
- TEQIP Sponsored workshop on evolutionary optimization algorithms and applications conducted by Thiagarajar college of Engineering on 4-5 March 2016

Seminars Attended

- National Seminar on “Advanced Power Conversion Concept for Motor Drives” conducted by velammal college of engineering and technology on 4 January 2008
- Complimentary seminar on MATLAB and Simulink for engineering education conducted by Mathworks India on 11 November 2011

Personal Details

Name	: S.B.Bharathi
Date of Birth	: 11.09.1981
Marital Status	: Married
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