Dr.B.KUNJITHAPATHAM

Address: 155, 8TH Street, Bharathi Nagar, Thanjavur, Tamilnadu 613 010
Phone: +91 86102 99405 / 98944 27542
Email: patham_84@yahoo.com
Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur

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OBJECTIVE

Intend to build a career with leading Engineering institute environment with committed and dedicated people, which will help me to explore myself fully and realize my potential.

WORK EXPERIENCE

12 Years 11 Months

17/12/2011 to Till Date

Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur

Roles & Responsibilities:

- Assistant Professor in EEE Department
- Head of the Department (i/c)
- Exam cell Coordinator
- Chief Superintendent for University Examinations
- IQAC (Internal Quality Assurance Cell) Coordinator
- ISO Co-coordinator

04/06/2007 to 16/12/2011

P.R.Engineering College,Thanjavur

Roles & Responsibilities:

- Assistant Professor in EEE Department
- NSS Programme Officer

EDUCATION

FEB – 2019 — **Doctor of Philosophy in Electronics and Instrumentation Engineering,** Annamalai University, Chidambaram

2007- 72% — **Master of Engineering in Power Electronics and Drives,** Saranathan College of Engineering, Trichy.

2005- 7.7CGPA — **Bachelor of Engineering in Electrical and Electronics Engineering**, Annamalai University, Chidambaram

2001-70% — **Higher Secondary**, Nadesanar Govt. Higher Secondary School, Ayakaranpulam

1999-77% **SSLC**, John De Britto High School,Pallankoil

PAPER PRESENTATIONS

International Conference: 5

12th -13th March 2020
- Presented a paper titled "Dynamic response of small scale Wind Generator fed Multilevel Converter" in International Conference on Empowering Engineering and Technology held at Parisutham Institute of Technology, Thanjavur.

12th -13th March 2020
- Submitted a paper titled "Power Quality Improved Single Stage High gain DC to DC converter" on International Conference on Empowering Engineering and Technology held at Parisutham Institute of Technology, Thanjavur.

26th - 27th Aug 2016
- Presented a paper titled "Real-Time Implementation of Three Phase 27-Level Multilevel Inverter with Dc Carrier PWM Technique" in "IEEE international conference on Inventive Computation Techniques" organized by IEEE-IRO.

29th March 2016
- Presented a paper titled "21-Level Inverter formed by cascading flying capacitor and floating capacitor H-Bridges" in "International conference on Emerging Engineering Trends and Science" organized held at Latha Madhavan Engineering College, Madurai.

08th – 09th May 2015
- Presented a paper titled " DSP based Three Phase neutral point clamped inverter fed Induction motor" on international conference on innovative research in electrical sciences held at E.G.S Pillay engineering College-ICIRES'15, Nagapattinam

National Conference: 3

21st Jan 2011
- Presented a paper Titled "Modeling and control of Three phase Multilevel inverter based STATCOM" on National conference IEEE-11 at M.P.Nachimuthu Engineering Collge, Erode.

22nd-23rd March 2007
- Presented a paper Titled "Dynamic model analysis of wind turbine driven self excited Induction generator" on National conference EIEEE –2007 at Dhanalakshmi Srinivasan Engineering College, Perambalur.

24th March 2007
- Presented a paper Titled "Dynamic model analysis of wind turbine driven self excited Induction generator"

on National conference ITAE–2007 at Saranathan College of Engineering, Trichy.

PUBLICATIONS

2015

1. Kunjithapatham.B, Anandhi.T.S, (2015), DSP Based Three Phase Neutral Point Clamped Fed Induction Motor, International Journal of Applied Engineering Research , Vol.10 No.51, pp.368-372 UGC Sl.no 1, Journal no-64529. ISSN-09734562. https://www.ripublication.com/Volume/ijaerv10n51spl.htm

2016

2. B. Kunjithapatham, T. S. Anandhi and J. A. V. Selvi, "Real-time implementation of three phase 27-level multilevel inverter with DC carrier PWM Technique," 2016 IEEE-International Conference on Inventive Computation Technologies (ICICT), Coimbatore, 2016, pp. 1-7. https://ieeexplore.ieee.org/document/7830177

2017

3. Kunjithapatham, B. Anandhi, T.S. (2017), Comparative analysis of various asymmetrical configurations of cascaded H-Bridge multilevel converter, IOSR-Journal of Electrical and Electronics Engineering, Vol.12 Issue.5 Ver. II, pp. 35-50, http://www.iosrjournals.org/iosr-jeee/Papers/Vol12%20Issue%205/Version-2/F1205023550.pdf

2017

4. P.Sivakumar , B. Kunjithapatham, “Advanced control Scheme of unified power quality Conditioner with Sliding Mode Approach” International Journal Advanced Research in Basic Engg. Sci.& Tech. (IJARBEST), International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST) Vol.3, Issue.10, pp-25-34, October 2017. https://ijarbest.com/journal/v3i10/1531

2018

5. Kunjithapatham.B, Anandhi.T.S, Arputha Vijaya Selvi, J. (2018), An investigation on H-Bridge based Neutral Point Clamped Multilevel Inverter Topology, International Journal of Recent trends in Engineering & Research, Vol.04,Issue.01,pp.264-274, UGC Sl.No-1, Journal no-63398, ISSN-24551457. https://www.ijrter.com/published-papers/volume-4/issue-1/an-investigation-on-h-bridge-based-neutral-point-clamped-multilevel-inverter-topology/

2018

6. P. Ravichandran and B. Kunjithapatham, “Design and Implementation of a Single-Phase Active Device Controller

for Power Quality Improvement", Journal of Advanced Research in Dynamical and Control Systems, Issue: 11-Special Issue, 2018, Pages: 692-700, ISSN-1943-023x. https://www.jardcs.org/backissues/abstract.php?archiveid=5326

2018

7. P.Sivakumar , B. Kunjithapatham, Hardware Implementation of Advanced Control Scheme of Unified Power Quality Conditioner with Sliding Mode Approach, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 11 (2018) pp.9123-9126 https://www.ripublication.com/ijaer18/ijaerv13n11_50.pdf

2019

8. B. Kunjithapatham, S. Gnanapragash, "Power Quality Improved Single Stage High Gain DC to DC Converter", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 5, Issue 3, pp.308-313, May-June-2019. https://doi.org/10.32628/CSEIT195373

2019

9. Ndagijimana, B. Kunjithapatham "Design and Implementation PV Energy System for Electrification Rural Areas" , International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, Volume-8 Issue-5, June 2019. Pp 2340-2352. https://www.ijeat.org/wp-content/uploads/papers/v8i5/E6953068519.pdf

2020

10. B. Kunjithapatham, G.Krithiga, "Dynamic Response of Small Scale Wind Generator Fed Multilevel Converter", Studies in Indian Place Names (SIPN), ISSN: 2394-3114 Vol-40-Issue-74, March -2020. Pp 1160-1167. https://archives.tpnsindia.org/index.php/sipn/article/view/8739

2020

11. S. Gnanapragash, B. Kunjithapatham, "Power Quality Improved Single Stage High Gain Dc To Dc Converter", Studies in Indian Place Names (SIPN), ISSN: 2394-3114 Vol-40-Issue-74, March -2020. Pp 1201-1206. https://archives.tpnsindia.org/index.php/sipn/article/view/8746

PhD THESIS

- Performance evaluation of Solar and Wind energy fed Multilevel Converters

PG PROJECT

- Dynamic model analysis of wind turbine driven self

UG PROJECT

excited Induction generator

- Density Based Traffic Signal System

AWARDS

2018

- "Best Teacher Award" for the year 2017-2018 by PRIST Deemed to be University on 5th Sep, 2018.

2020

- "Best Paper Award" in International Conference on Empowering Engineering and Technology held on 12th - 13th March 2020 at Parisutham Institute of Technology, Thanjavur.

JOURNAL REVIWER

- Journal Reviewer of "IET Power Electronics"

PARTICIPATION IN

WORKSHOPS

- UGC sponsored workshop on " Embedded control of PV fed Electrical drives",9th-14th March 2015, Annamalai University
- Two weeks workshop on "Role of power electronics in wind energy system" 4th to 17th Jun 2013, Sudharshan Engineering College, Pudhukottai.
- NPTEL workshop organized by IIT Madras on 12.04.13 held at PRIST University, Thanjavur.
- Workshop on "Distributed Generation", 14th -15th Dec-2008,NIT-Trichy
- Workshop on "Applications of MP lab to power electronics" Jun-12 2011,NIT- Trichy

TRAINING PROGRAMMES

- STP on " PIC Microcontroller applications in power electronic circuits" 22nd -23rd Jun 2012, NIT-Trichy
- FDP on "Electrical machine Design" 2nd April 2011, Kings college of Engineering- Thanjavur
- Training programme on "Instructional Design and delivery systems, 7- 9th Jan 2009, PRIST University

- National level Seminar on "Sustainable Energy for green

SEMINARS

environment, 29th , 30th April 2011, Starlion College of Engg &Tech-Thanjavur

CONFERENCES

- International conference on the "Applications of the Digital information and Web Technologies, 17th -19th Feb 2014, PRIST University
- National conference on “Renewable energy” on 25th-26th March 2009, PRIST University
- International conference on photonics and Nano-technology, 25-28 Feb 2009, PRIST University

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PROJECTS GUIDED

- PG: M.Tech- 20
- UG: B.E/B.Tech- 15

ADDITIONAL SKILLS

- Programming: MATLAB – Simulink, ETAP
- Microsoft Office package: Microsoft Word, Excel, Access
- Database operation: Microsoft Office Access

ORGANIZATIONAL SKILLS

- Collaboration with team members
- Planning and strategizing goals
- Leading and managing teams
- Consistently meeting deadlines
- Conflict management
- Constant Communication with stakeholders
- Critical thinking
- Problem solving
- Detail-oriented

CONTRIBUTION IN EVENTS ORGANIZED

- Event Co-coordinator of district level science exhibition
- Refreshment committee chairperson of various events
- Discipline committee chairperson of various events
- Amenities committee chairperson of various events
- Convener of workshops
- Convener of Symposium
- Organizer of Conference
- Coordinator roles
- Industrial Visits

FIELD OF INTEREST

- Power Electronics
- Electrical Machines
- Renewable energy.

CONCEPTUAL KNOWLEDGE IN SUBJECTS

- Circuit Theory
- Field Theory
- Electrical Machines and its Design
- Power Electronics
- Transmission and Distribution
- Solid state Drives
- Power Quality
- Switched mode power supplies
- Advanced Dc to AC conversion
- Solar energy
- Wind energy conversion system

PERSONAL DETAILS

- Date of Birth : 12-04-1984
- Marital Status : Married
- Gender : Male
- Nationality : Indian
- Mother Tongue : Tamil
- Languages known : Tamil & English

MEMBERSHIP ISTE Life Term member

REFERENCES References available on request

DECLARATION I hereby declare that the above written particulars are correct and true to the best of my knowledge and belief.

Sincerely

(Dr.B.Kunjithapatham)

Date: 30.05.2020