

CURRICULUM VITAE



Dr.C.NAGARAJAN, M.Tech, Ph.D,MIEEE

Professor and Head

Department of Electrical and Electronics Engineering

Muthayammal College of Engineering

Rasipuram-637408

Namakkal(Dt)

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AREAS OF INTEREST / RESEARCH :

- Power Electronics and Drives
- Intelligent control Techniques

EDUCATION:

Ph.D, Electrical Engineering

Bharath Institute of Higher Education and Research (BIHER) University,
Chennai. 26th September 2011.

Research Title: Analysis and Design of Series Parallel Resonant Converter
with Fuzzy Controller using State Space Techniques

M.Tech.,Power Electronics

Vellore Institute of Technology, Vellore, Tamilnadu with **7.9 CGPA**, May
2004.

B.E., Electrical and Electronics Engineering

K.S.Rangasamy College of Technology, affiliated to Madras University, **63%**,
April 2001.

STATUS OF THE RESEARCH CANDIDATES

- **One Candidate have been awarded Ph.D in Anna University, Chennai**
- **Provisionally confirmed 12 candidates are pursuing under Anna University, Chennai.**

PROFESSIONAL EXPERIENCE:

- Currently working as a Professor and Head in **Muthayammal College of Engineering**, in Rasipuram, from 01.06.2012 to till date.
- Worked as a Professor in **Muthayammal Engineering College**, in Rasipuram, from 19.06.2006 to 30.05.2012.
- Worked as a lecturer in **R.V.S College of Engineering and Technology** in dindigul from 28.07.2001 to 30.06.2006.

INTERNATIONAL JOURNAL PUBLICATION

Cumulative Impact Factor: 2.119

Impact factor Journals:

- **C. Nagarajan**, M.Madheswaran and D.Ramasubramanian- ‘Development of DSP based Robust Control Method for General Resonant Converter Topologies using Transfer Function Model’- *Acta Electrotechnica et Informatica Journal* , Vol.13 (2), pp.18-31, April-June.2013 (**Impact factor: 0.2**)
- **C.Nagarajan** and M.Madheswaran - ‘Experimental verification and stability state space analysis of CLL-T Series Parallel Resonant Converter’ - *Journal of ELECTRICAL ENGINEERING*, Vol.63 (6), pp.365-372, Dec.2012. (**Impact factor: 0.546**)
- **C.Nagarajan** and M.Madheswaran - ‘Performance Analysis of LCL-T Resonant Converter with Fuzzy/PID Using State Space Analysis’- *Springer, Electrical Engineering*, Vol.93 (3), pp.167-178, September 2011. (**Impact factor: 0.303**)
- **C.Nagarajan** and M.Madheswaran - ‘Stability Analysis of Series Parallel Resonant Converter with Fuzzy Logic Controller Using State Space Techniques’- *Taylor & Francis, Electric Power Components and Systems*, Vol.39 (8), pp.780-793, May 2011. (**Impact factor: 0.67**)
- **C.Nagarajan** and M.Madheswaran - ‘DSP Based Fuzzy Controller for Series Parallel Resonant converter’- *Springer, Frontiers of Electrical and Electronic Engineering*, Vol. 7(4), pp. 438-446, Dec.12. (**Impact factor: 0.3**)
- **C.Nagarajan** and M.Madheswaran - ‘Experimental Study and steady state stability analysis of CLL-T Series Parallel Resonant Converter with Fuzzy controller using State Space Analysis’- *Iranian Journal of Electrical & Electronic Engineering*, Vol.8 (3), pp.259-267, September 2012. (**Impact factor: 0.10**)

- M.Anto bennet, I.Jacob Raglend, **C.Nagarajan**, “Performance Analysis of Image Quality Assessment Using Deblocking filter for the Reduction of Block Artifacts”, *Wulfenia Journal,Austria*, Vol. 20 (2), pp.26-34, Feb 2013.
- M.Anto bennet,I.Jacob Raglend, **C.Nagarajan**, P.Prakash, “Low Complexity Video Coding on Block based Singular Value Decomposition (SVD) Algorithm”, *International Journal of Computer Applications*, Vol. 77 (6), pp.1-8, September 2013.
- I. Thangaraju, M. Muruganandam and **C. Nagarajan** ,- ‘Implementation of PID Trained Artificial Neural Network Controller for Different DC Motor Drive’ Middle-East Journal of Scientific Research,Vol. 23 (4), 606-618, 2015
- **C.Nagarajan**, S.Madhusudan – ‘Dynamic Programming Based Unit Commitment Methodology’- *International Journal of Applied Engineering Research*, Vol. 10 (9), pp.9073-9080,(2015)
- E.Geetha,**Dr.C.Nagarajan** – ‘Embedded Controller Integrated into a Wireless Sensor Network for Induction Motor Parameter Monitoring using ZIGBEE’, *International Journal of Applied Engineering Research*,Vol.10(9),pp.9343-9346,(2015)
- K.Umadevi, **Dr.C.Nagarajan** – ‘A PV based high efficiency Boost Step-Up DC–DC Converter’ *International Journal of Applied Engineering Research*, Vol. 10 (9),pp.9347-9354, (2015)
- G. S. SatheeshKumar, **Dr. C. Nagarajan**, M. Lizzy Nesa Bagyam – ‘Smart Grid: A Renovation of Power Network’ *International Journal of Applied Engineering Research*, Vol. 10 (9),pp.9355-9358,(2015)
- C.Santhana Lakshmi, **Dr. C. Nagarajan** – ‘Control of Voltage Fluctuation In Wind Power Plant Using Flywheel Energy Storage System’ *International Journal of Applied Engineering Research*, Vol.10(9),pp.9359-9362,(2015)
- S.Thirunavukkarasu, **Dr.C.Nagarajan** - ‘Design and Analysis of Multilevel Inverter fed BLDC Motor’ *International Journal of Applied Engineering Research*, Vol. 10 (9),pp.9363-9367, (2015)
- M.Sheelasankari, **Dr.C.Nagarajan** – ‘Hybrid MPPT Technique with Fuzzy System for PV System’ *International Journal of Applied Engineering Research*, Vol. 10 (9),pp.9368-9372, (2015)
- A.P.Sugany, Mrs. C.Santhana Lakshmi, **Dr. C. Nagarajan**,- ‘Power Flow Control with Battery Storage Application for Residential Grid connected PV System’ *International Journal of Applied Engineering Research*, Vol.10(9), pp.7778-7782, (2015)
- **C.Nagarajan** and M.Madheswaran – ‘Analysis and Implementation of LLC-T Series Parallel Resonant Converter with Fuzzy controller’- *International*

Journal of Engineering Science and Technology (IJEST), Applied Power Electronics and Intelligent Motion Control. Vol.2 (10), pp 35-43, December 2010 (Indexed in Scopus)

- **C.Nagarajan** and S.Sathiskumar – ‘Performance Analysis of Series Parallel Resonant Converter with Digital Signal Processor based Fuzzy Controller for Stand Alone Wind Energy System’ *Journal of Applied Sciences Research*, Accepted for publishing (Indexed in Scopus) (SJR: 0.029)
- **C.Nagarajan**, M.Muruganandam and D.Ramasubramanian – ‘Analysis and Design of CLL Resonant Converter for Solar Panel - Battery systems- **International Journal of Intelligent systems and Applications (IJISA)**, Vol.5 (1),pp.52-58, 2013. (Indexed in Scopus)
- **C.Nagarajan** and M.Madheswaran - ‘Experimental Study and Comparative Analysis of CLL-T and LCL-T Series Parallel Resonant Converter with Fuzzy/ PID Controller’- *Journal of Electrical Engineering*, Vol.11 (3), pp.122-129, 2011. (Indexed in Scopus)

Referred Journals:

- **C.Nagarajan**, R.Srinivasan, V.R.Anand – ‘Analysis and Design of Series Inverter Based Load Reactive Power Compensation’- *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*, Vol.4 (6), pp.2060-2068, May 2015
- **Dr.C.Nagarajan**, D.Vinoth , R.Saranya – ‘A Wide Area Monitoring System Base Load Restoration Method’- *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*, Vol.4 (6), pp.2069-2072, May 2015
- **Dr.C.Nagarajan**, R.Srinivasan, M.Suritha– ‘Design and Analysis of Active Filter based Unbalanced Load Correction’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2073-2078, May 2015
- **Dr.C.Nagarajan**, D.Vinoth, R.Kayalvizhi – ‘Design and Analysis of Genetic Algorithm to Solve Economic Load Dispatch Problem in the Power System’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2079-2087, May 2015
- **Dr.C.Nagarajan**, G.Neelakrishnan, P.Ganeshkumar, D.Vinoth – ‘Power Quality Improvement Using Multi Level Inverter Operated In Grid Connected Mode ’- **International Journal of Innovative Research in Science,**

- Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2088-2097, May 2015
- **Dr.C.Nagarajan**, G. Neelakrishnan, V.Sundarajan, D.Vinoth – ‘Simplified Reactive Power Control for Single-Phase Grid-Connected Photovoltaic Inverters ’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2098-2104, May 2015
 - **Dr.C.Nagarajan**, M.Kannan, D.Pushpha – ‘A Novel STATCOM Model for Dynamic Power System Simulations’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2105-2111, May 2015
 - **Dr.C.Nagarajan**, D.Kalidass, C.Manivannan – ‘Hybrid Power System Using Current Fed Inverter’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2112-2117, May 2015
 - **C.Nagarajan**, S.Madhusudan – ‘Dynamic Programming Based Unit Commitment Methodology ’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2118-2123, May 2015
 - **Dr.C.Nagarajan**, V.S.Karthikeyan, R.Suguna – ‘Power Synchronous Control for Weak Grid Using DFIG ’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2124-2131, May 2015
 - **Dr.C.Nagarajan**, Poorani.B, R.Suguna – ‘Grid Connected Wind-Hydro Hybrid System with Battery Energy Storage for Critical Load’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2132-2141, May 2015
 - **Dr.C.Nagarajan**, M.Kannan, D.Vijay – ‘Design and Modeling of UPFC Using MPC and Bacterial Forging Algorithm’- **International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)**, Vol.4 (6), pp.2051-2059, May 2015
 - R.Mahendran, Mr. J. Praveen Daniel, **Dr. C. Nagarajan**,- ‘A Power Quality Compensator With Renewable Energy Source Interface Capability Using Active Power Filter’ **International Journal of Innovative Research in Science, Engineering and Technology**, Vol.3 SPL.1,pp.920-929, Feb.2014
 - S. Sathish Kumar, B.Swapna, **Dr.C.Nagarajan**,- ‘Modeling and Control for Smart Grid Integration with MPPT of Solar/Wind Energy Conversion System,

International Journal of Innovative Research in Science, Engineering and Technology, Vol.3 SPL.1,pp.1151-1159, Feb.2014

- **C.Nagarajan** and C.Mathiyalagan - ‘Design and Implementation of Bridgeless Buck Converter with Fuzzy Controller Fed PMDC Drive’- *Journal on Soft Computing*, Vol. 2 (3), pp.337-340, April 2012, (ISSN: 2229-6956)
- **C.Nagarajan** and M.Madheswaran - ‘Performance Estimation of LCL-T Resonant Converter with Fuzzy / PID Controller’- *International Journal of Computer and Electronic Engineering (IJCEE)*, Vol.2 (3), pp.534-542, June 2010 (ISSN: 1793-8198, EISSN: 1793-8163)
- M.Anto bennet,I.Jacob Raglend, **C.Nagarajan**, P.Prakash “Performance and Analysis of Blocking Artifacts Reduction using Parallel Deblocking Filter For H.264/AVC On Low Bitrate Coding” *International Journal of Engineering and Computer Science*, Vol. 2 (6), pp.1834-1844, June 2013.
- M.Anto bennet, I.Jacob Raglend, **C.Nagarajan**, P.Prakash “Performance and Analysis of Ringing Artifacts Reduction Using Deblocking Filter”, *International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)*, Vol.2(6), pp.611-618, June 2013.
- M. Anto Bennet, R. Nithyadevi, I. Jacob Reglend, **C. Nagarajan**, “Performance and Analysis of Video Compression Using Block Based Singular Value Decomposition Algorithm”, *International Journal of Modern Engineering Research (IJMER)*, Vol. 3 (3),pp-1482-1486, May.-June. 2013.
- **C.Nagarajan** and M.Madheswaran - ‘State Space Analysis of LCL-T Resonant Converter with Fuzzy Controller’- *International Journal of Recent trend in Engineering and Technology (IJRTET)*, Vol.3 (3), pp. 131–135, May 2010 (ISSN: 0975 – 6450)
- **C.Nagarajan** and M.Madheswaran - ‘Performance Evaluation and Stability Analysis of LCL-T and LLC-T SPRC with Fuzzy Logic Controller’- *International Journal of Modern Engineering Research (IJMER)* (Accepted for publishing)
- **C.Nagarajan** and M.Madheswaran – ‘Performance Analysis of LCL-T Resonant Converter with Fuzzy Controller Using State Space Analysis’- *International Journal of Electronic Engineering Research (IJEER)*, Vol. 2 (1), pp. 51–70, 2009 (ISSN: 0975 – 6450)

Communicated

- **C.Nagarajan** and M.Thivakaran - 'Analysis and Implementation of Generalized Model for Resonant Converter Topologies using Closed Loop Control Techniques'- *Taylor & Francis, Electric Power Components and Systems*, (Impact factor: 0.67)

INTERNATIONAL / NATIONAL CONFERENCE PAPER PRESENTATION:

- **C.Nagarajan**, S.Madhusudan – 'Dynamic Programming Based Unit Commitment Methodology' has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015. pp.9073-9080
- E.Geetha,**Dr.C.Nagarajan** – 'Embedded Controller Integrated into a Wireless Sensor Network for Induction Motor Parameter Monitoring using ZIGBEE', has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015. pp.9343-9346.
- K.Umadevi, **Dr.C.Nagarajan** – 'A PV based high efficiency Boost Step-Up DC-DC Converter' has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015.pp.9347-9354
- G. S. SatheeshKumar, **Dr. C. Nagarajan**, M. Lizzy Nesa Bagyam – 'Smart Grid: A Renovation of Power Network' has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015.pp.9355-9358
- C.Santhana Lakshmi, **Dr. C. Nagarajan** – 'Control of Voltage Fluctuation In Wind Power Plant Using Flywheel Energy Storage System' has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015.pp.9359-9362
- S.Thirunavukkarasu, **Dr.C.Nagarajan** - 'Design and Analysis of Multilevel Inverter fed BLDC Motor' has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015. pp.9363-9367
- M.Sheelasankari, **Dr.C.Nagarajan** – 'Hybrid MPPT Technique with Fuzzy System for PV System' has been presented in ICETS'15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015. pp.9368-9372

- A.P.Sugany, Mrs. C.Santhana Lakshmi, **Dr. C. Nagarajan**,- ‘Power Flow Control with Battery Storage Application for Residential Grid connected PV System’ has been presented in ICETS’15, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. March 5th and 6th 2015. pp.7778-7782
- S.Sathish Kumar, **Dr.C.Nagarajan**, “Modeling and Control for Smart Grid Integration with MPPT of Solar/Wind Energy Conversion System” has been presented in ICETS’14, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. Feb.10 and 11th 2014. PP. 219-230.
- K.Umadevi, **Dr.C.Nagarajan**, “Design and Control of a Modular Multilevel DC/DC Converter for Regenerative Applications” has been presented in ICETS’14, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. Feb.10 and 11th 2014. PP. 494-496.
- R.Mahendran, J. Praveen Daniel, **Dr.C.Nagarajan**, “A Power Quality Compensator With Renewable Energy Source Interface Capability Using Active Power Filter” has been presented in ICETS’14, a **International Conference** organized by Muthayammal College of Engineering, Rasipuram. Feb.10 and 11th 2014. PP. 606-612.
- **C.Nagarajan** and E.Geetha, “Embedded based industrial motor parameters monitoring using wireless sensor networks” has been presented in IECN’13, a **IEEE International Conference** organized by Adithya Institute of Technology,Coimbatore. Jan.13.(**Published in IEEE xplore**)
- **C.Nagarajan** and M.Madheswaran, “Analysis and Simulation of LLC-T Resonant Converter as a Constant Voltage / Current Supply” has been presented in ICSPEE09, an **IEEE International Conference** organized by S.R.M.University, Chennai.Vol.no.1, pp.1133-1135, Apr.2009.
- **C.Nagarajan** and M.Madheswaran, “Analysis and Simulation of LCL Series Resonant Full Bridge Converter Using PWM Technique with Load Independent Operation” has been presented in ICTES’08, a **IEEE / IET International Conference** organized by M.G.R.University, Chennai.Vol.no.1, pp.199-207, Dec.2007.(**Published in IEEE xplore**)
- **C.Nagarajan** and M.Madheswaran, “Experimental Result and Simulation study of LCL-T SPRC using NN” has been presented in DSCICT’11, a **IEEE / EDS International Conference** organized by Muthayammal Engineering College, Rasipuram. Vol.no.1, pp.92-98, 26th Feb.2011. (Published in IJCST).
- **C.Nagarajan** and C.Mathiyalagan “Design and Simulation of Bridgeless AC/DC Buck Converter Fed PMDC Drive ” has been presented in “ Recent

Advancements and challenges in Electrical Engineering and Applications”, a National Conference organized by IRTT, Erode-638 316. on 29th February & 1st March 2012.

- **C.Nagarajan** and C.Mathiyalagan “Simulation of Bridgeless AC/DC Buck Converter Fed DC Drive ” has been presented in 4th National Conference on ”Recent Trends in Electrical Technology”, a National Conference organized by Velalar College of Engineering and Technology, Erode, held on 17th March 2012
- **C.Nagarajan** and C.Mathiyalagan “Implementation of Bridgeless Buck Converter Fed PMDC drive ” has been presented in 4th National Conference on ” NCIES’ 12, a National Conference organized by Mahendra College of Engineering, Salem, held on 7th April 2012
- **C.Nagarajan** and M. Muthuvel “Hardware Implementation of LCL-T SPRC using Neuro Controller” has been presented in ITEES’11, a National Conference organized by Muthayammal Engineering College, Rasipuram. pp. 424-429, 30th March.2011.
- **C.Nagarajan** and V.Ramya “Analysis and Simulation of ZVS half bridge Series Resonant Inverter with Variable Frequency Duty Cycle Control” has been presented in ITEES’11, a National Conference organized by Muthayammal Engineering College, Rasipuram. pp. 88-90, 30th March.2011.
- **C.Nagarajan** and R.Vidhya “ZVS and ZCS based Boost Converter by using CCM” has been presented in ITEES’11, a National Conference organized by Muthayammal Engineering College, Rasipuram. pp. 31-38, 30th March.2011.
- **C.Nagarajan** and V.Ramya “Simulation of ZVS Series Resonant Inverter with Variable Frequency Control ” has been presented in Power Electronics and controllers for Renewable Energy Systems (PECRES-2011), **IEEE sponsored** a 7th National conference organized by K.S.R. College of Technology, Tiruchengode.18th & 19th March.2011.
- **C.Nagarajan** and R.Vidhya “ZVS and ZCS based Boost Converter by using CCM” has been presented in Intellectual Perspectives on Intelligent Control (IPIC-2011), a National Conference organized by AMS Engineering College, Namakkal, 11th March.2011.
- **C.Nagarajan** and J.Jaisree “Analysis and Simulation of ZVS Based Resonant Converter by Using PWM Technique” has been presented in NCACCA-09, a National conference organized by K.S.R.College of Technology, Tiruchengode.pp.40-44, April 2009.
- **C.Nagarajan** and J.Jaisree “ZVS Based Series Resonant full bridge Converter by Using PWM Technique - Analysis and Simulation” has been presented in

NCIES-09, a National conference organized by Maha College of Engineering, Minnampalli, Salem.pp.7, and Apr.2009.

- **C.Nagarajan** “Control Signal Shaping Based Dead Time and Input Constraints” has been presented in RTVI’08, a National conference organized by VMKV Engineering College, Vinayaka Missions University.pp.25-32, Sep.2008.
- **C.Nagarajan** “Analysis and Simulation of LLC Resonant Full Bridge converter Using PWM Technique” has been presented in NCIC’08, a National conference organized by IFET Engineering college.pp.15-21, Sep.2008.
- **C.Nagarajan** “Analysis and simulation of LCL-T Resonant Converter by using Fuzzy controller” has been presented in XETA-2K8, a National conference organized by Jayam College of Engineering and Technology.pp.76, Apr.2008
- **C.Nagarajan** “Analysis and simulation of LCL-T Converter using PWM Technique” has been presented in ITEES’2008, a National conference organized by Muthayammal Engineering College. Rasipuram.pp.198-204.Feb.2008.
- **C.Nagarajan** “An LCL Series Resonant Converter with PWM control- Analysis and Simulation” has been presented in PCTCON’06, a National conference organized by PSNA College of Engg. & Tech., Dindigul.pp.26.Apr.2006.
- **C.Nagarajan** “Analysis and simulation of Parallel Resonant Converter” has been presented IMPEDES-2005, a National conference organized by M.N.M Jain Engineering College.Chennai-600096. pp.26.Dec.2005.

BOOK PUBLICATON

- Measurement & Instrumentation for the Third Semester Electrical and Electronics Branch, Anuradha Publication, Ist Edition- 2009 (ISBN:978-81-8472-093-8)
- Measurement & Instrumentation, Anuradha Publication IInd Edition- 2010
- Measurement & Instrumentation, Anuradha Publication IIIrd Edition- 2011
- Measurement & Instrumentation, Anuradha Publication IVth Edition- 2012
- Measurement & Instrumentation, Anuradha Publication Vth Edition- 2013
- Measurement & Instrumentation, Anuradha Publication VIth Edition- 2014

PROGRAM ORGANIZED:

- **MNRE Sponsored** Two Days National Seminar on” Emerging Trends in Solar and Energy Storage Techniques”, held on 9th and 10th July 2015
- **CFD, Anna University** Sponsored Seven Days Faculty Development Program on ”Special Electrical Machines”, held on 22nd to 28th June 2015
- Second International conference on “Engineering Technology and Sciences (**ICETS’14**)”, held on 5th and 6th March 2015
- Two Days Workshop on “ **Software Training Program using SIMPOWER Systems and MULTISIM**” held on 20th and 21st Feb.2015
- National level technical symposium on **TECHNOFEST’15** held on 26th Sep.2014.Muthayammal College of Engineering, Rasipuram.
- One Week Value added Course “ **Design and Fabrication of PCB**” held on 11th to 17th Aug.2014
- International conference on “Engineering Technology and Sciences (**ICETS’14**)”, held on 10th and 11th Feb.14
- One Day Workshop on “**Mi-Power Systems Techniques**”, held on 19th Nov.2013
- National conference on “**Computing Communication Technology and Science (NCCCTS’13)**”, held on 5th and 6th April.13
- National conference on “**Innovative Technologies in Electrical and Electronics Systems (ITEES’11)**”, held on 30th March.11
- Co coordinator for the **AICTE** Sponsored on “**Soft Computing Techniques in Advanced Special Electrical Drives**” held on 13th & 25th June 2011
- Co coordinator for the **AICTE** Sponsored on “**Computational Intelligence Techniques in green energy**” held on 3rd & 4th June’11
- One day Workshop on “**Embedded Based Electric Drives**”, held on 22nd December 2010
- National conference on “**Innovative Technologies in Electrical and Electronics Systems (ITEES’10)**”, held on 22nd Feb.10
- National conference on “**Innovative Technologies in Electrical and Electronics Systems (ITEES’08)**”, held on 22nd & 23rd Feb.08
- National level technical symposium on **PWR-SPARX’08** held on 12th Sep.2008.Muthayammal Engineering College, Rasipuram.

- Two days Work shop on “**Embedded Controller for Electrical Systems** “, held on 5th & 6th Oct.2007.
- One day Work shop on “**Research Methodology**”, held on 18th Dec.2007, Muthayammal Engineering College, Rasipuram.
- National level technical symposium on **RIVEX’05** held on 22nd 2005 R.V.S.College of Engineering and Technology, Dindigul.

GUEST LECTURES / INVITED TALKS / CONFERENCE SESSIONS CHAIRED

Conference Session Chaired

- **International Conference on ICEECE2015**, 12th March, Department of EEE, Vivekanandha College of Engineering for Women, Tiruchengode
- **International Conference on ICETS,15**, 5th March, Department of EEE, Muthayammal College of Engineering, Rasipuram
- **International Conference on ICETS,14**, 10th February, Department of EEE, Muthayammal College of Engineering, Rasipuram
- **National Level workshop on “ Industrial Automation”**, Department of Electrical and Electronics, Adithya Institute of Technology, Coimbatore, 5th September 2014
- **National level Technical Symposium**, Department of Electrical and Electronics, PGP College of Engineering and Technology, 13th March, 2014.
- **National level Technical Symposium**, Department of Electrical and Electronics, Bharathiyar Institute of Engineering for Women, 31st July, 2013.
- **National Level workshop on “ Recent Trends in solar PV Electric Conversion System”**, Department of Electrical and Electronics, Nandha Engineering College, Erode, 19th – 20th April 2013
- **National Conference on Intelligent Controller in Electrical and Electronics Systems**, Department of Electrical and Electronics Engineering, A.V.S Engineering College, 10th April, 2013.
- Technological Committees member in **International Conference on Scientific Research and Studies- ICSRS 2013**, USA and China
- **National Conference on Emerging Technologies “ MKCE- CONFLUENCE’12”**, Department of Electronics and Instrumentation Engineering, M.Kumarasamy College of Engineering, 25th February, 2012.
- **International Conference on IEEE / EDS International Conference - 2011**, 26th February, Department of ECE, Muthayammal Engineering college, Rasipuram

- **National Conference – Innovative Technologies in Electrical and Electronics Systems**, Department of Electrical and Electronics Engineering, Muthayammal Engineering College, 30th March, 2011.
- **National Conference – Innovative Technologies in Electrical and Electronics Systems**, Department of Electrical and Electronics Engineering, Muthayammal Engineering College, 22nd February, 10
- **National Conference – Innovative Technologies in Electrical and Electronics Systems**, Department of Electrical and Electronics Engineering, Muthayammal Engineering College, 22nd & 23rd February, 08

Guest Lectures / Invited talks

- **MNRE Sponsored** Two Days National Seminar on, “Renewable Energy Sources” Department of Electrical and Electronics Engineering, 9th and 10th July 2015, Muthayammal College of Engineering
- **Anna University Sponsored** Seven Days FDP on, “Special Electrical Machines” Department of Electrical and Electronics Engineering, 22nd to 28th June 2015, Muthayammal College of Engineering
- “Intelligent Controller for Drives” Department of Electrical and Electronics Engineering, **International Conference on ICEECE2015**, 12th March, Vivekanandha College of Engineering for Women, Tiruchengode
- “Drives and Control” Guest lecture, Department of Electrical and Electronics Engineering, **PGP College of Engineering and Technology**, Namakkal, on 13th March 2014.
- TEQIP-II FDP “Challenges and Opportunities in Indian Power Scenario” Guest lecture, Department of Electrical and Electronics Engineering, **Government College of Engineering**, Bargur, on 30th May 2014.
- “Power Conversion Topologies” Guest lecture, Department of Electrical and Electronics Engineering, **Government College of Engineering**, Bargur, on 15th November 2013.
- “Modern Power Converters” Guest lecture, Department of Electrical and Electronics Engineering, **A.V.S Engineering College**, 10th April, 2013.
- “Electrical Machine Design” Guest lecture, Department of Electrical and Electronics Engineering, **Narasu’s Sarathy Institute of Technology**, Omalur, Salem on 06th March 2012.
- “Modern Controllers” Invited talk, National Conference on Emerging Technologies, Department of Electronics and Instrumentation Engineering, **M.Kumarasamy College of Engineering**, 25th February, 2012.

- “Advanced Special Electrical Drives”, Invited talk, Fifteen days SDP Sponsored by **AICTE**, Department of Electrical and Electronics Engineering, **Muythayammal Engineering College**, 13th to 25th June 2011.
- “Electrical Engineering” Department of Electronics and Instrumentation Engineering, **Muthayammal Engineering College**, Rasipuram 14th October 2010.
- “Fuzzy Controller for Electrical System” Two days workshop, Department of Electrical and Electronics Engineering, **Muthayammal Engineering College**, 5th & 6th Oct.2007.

PROGRAM ATTENDED:

- Two days National Seminar on “ **Recent Trends In Corrosion Inhibition By Nano Materials**” Sponsored by **AICTE** at Muythayammal Technical Campus, Rasipuram. Conducted on 14th & 15th June’12.
- Two days Seminar on “**Recent Trends in Virtual Instrumentation**” Sponsored by **AICTE** at Muythayammal Engineering College, Rasipuram. Conducted on 21st & 22nd May’12.
- Two days National Seminar on “**MEMS / Nano Technology Integration for Biomedical Application**” Sponsored by **AICTE** at Muythayammal Engineering College, Rasipuram. Conducted on 24th & 25th May’12.
- Fifteen days SDP on “**Soft Computing Techniques in Advanced Special Electrical Drives**” Sponsored by **AICTE** at Muythayammal Engineering College, Rasipuram. Conducted on 13th to 25th June 2011.
- Two days Seminar on “**Computational Intelligence Techniques in Green Energy**” Sponsored by **AICTE** at Muythayammal Engineering College, Rasipuram. Conducted on 03 & 04 June’11.
- FDP on “**Advanced Controllers for Electric Drives**” on 18th & 19th January-2011, IEEE MADRAS section, Sona college of Technology, Salem.
- National level one day work shop on “**Advanced Electrical Machines & DSP Processors**” on 6th December 2008 at MET’S SCHOOL OF ENGINEERING, Mala, Thirssur, Kerala.
- One day National Seminar on “**TCAD and IC CAD Technologies and FPGA Design Using Silvaco Tanner Tools (EC-CAD’08)**” conducted on 20th Sep.2008.at Muthayammal Engineering College, Rasipuram.

- Two days Workshop on **Industrial Automation on Neuro-Fuzzy and its Applications**, Sponsored by **AICTE** at The Kaveri Engineering College, Mechri. Conducted on 28th & 29th May 2008.
- Two days Workshop on “**Embedded Controller for Electrical Systems** “, conducted on 5th & 6th Oct.2007. at Muthayammal Engineering College, Rasipuram
- One day Workshop on “**Research Methodology**”, conducted on 18th Dec.2007, Muthayammal Engineering College, Rasipuram.

INTERNATIONAL JOURNAL EDITOR AND REVIEWER

- Editor in International Journal of Communication and Computer Technologies (IJCTS)
- IET - Power Electronics
- Outstanding Reviewer in IJET
- Taylor & Francis, Electric Power Components and Systems
- Springer-Electrical Engineering
- Outstanding Reviewer in IJAET
- Outstanding Reviewer in IJCEE
- IJCAET
- IACSIT

Technical Committee member

- Annual Conference- International Conference on Advanced Material Research (ICAMR),Dubai ,UAE
- Annual Conference- International Conference on Power Science and Engineering, Hong Kong

ADDITIONAL RESPONSIBILITIES:

- NBA Coordinator of the Department
- Department Association Treasure
- Department Library In charge
- Actively involved in making the department as Centre for Collaborative Research with Anna University, Chennai and Coimbatore

- Established Power Electronics lab, Simulation Lab, Special Electrical Machines Lab with the advanced equipment and software's
- Got the Financial Grant from **AICTE** under the Scheme of “**SEMINAR GRANT**” for the National Level Seminar on “Computational Intelligent Techniques in Green Energy”.
- Got the Financial Grant from **AICTE** under the Scheme of “**MODROBS**” for the Modernization of Electrical Machines Laboratory.
- Got the Financial Grant from **AICTE** under the Scheme of “**Faculty Deployment Programme**” for the National Level FDP on “Soft Computing Techniques in Advanced Special Electrical Drives”.
- Anna University Representative for the successful conduct of University Examinations.
- As IEEE student branch counselor, co-ordinate many functions including technical paper presentation and hardware contest
- Motivated the students to carry out various projects and won prizes in various science and technology exhibitions
- Co-ordinated for Postgraduate and undergraduate project works
- Delivered Guest Lectures on Power Electronics and Machines Design in various Engineering Colleges
- Chair person for National Conference and National Level Technical Symposium for various Engineering college

Produced 100% Results in following Subjects:

- Power Electronics
- Electrical Drives and Control
- Solid State Drives
- Design of Electrical Apparatus
- Electrical Machine Design
- Electrical power utilization and energy conservation
- Advanced power semiconductor devices
- Simulation of Power Electronics
- Advanced Solid State Drives

MEMBERSHIP:

- Member in IEEE
- Member in ISTE
- Member in IET

SUBJECT HANDLED:

PG level: Advanced power semiconductor devices, solid state AC & DC drives, Analysis of power converters, Computer Aided Design of Electrical Apparatus.

UG level: Solid State Drives, Electrical Machines-I & II, Power Electronics, Design of electrical Apparatus, Embedded System Design, Electronics & Microprocessor, Electrical Drives and control, Circuit Theory, Network Analysis and synthesis, High voltage Engineering and Basic Electrical Engineering.

DECLARATION

I declare that the information given is true and correct to the best of my knowledge.

Place:

Date:

(Dr.C.NAGARAJAN)