

## Bio Data



### PERSONAL DETAILS

Name : **Dr. R.Balamurugan**

Designation : Associate Professor

Institution : K.S.Rangasamy College of  
Technology, Tiruchengode

Father's Name : Mr.R.Rangasamy

Date of Birth & Age : 11.05.1984 & 35 Years

Address for communication : Associate Professor  
Dept.of EEE  
K.S.Rangasamy College of Technology,  
Tiruchengode.  
Namakkal Dt-637 215

Residential Address : Nallagoundan Palayam  
M.Anumanpalli (POST),  
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## ACADEMIC PROFILE

Degree	Institution/University	Specialization	% of Marks / Class obtained	Year of completion
Ph.D.	Anna University, Chennai	Power Electronics	-	2012
M.E.	Bannari Amman Institute of Technology / Anna University, Chennai	Power Electronics and Drives	79 FWD	2007
B.E.	MPNMJEC / Anna University, Chennai	Electrical and Electronics Engineering	72 FC	2005
HSC	Navarasam Matriculation Higher sec. School / State Board	-	72	2001
SSLC	Vivekanandha Matriculation School / Matric	-	72	1999

## TITLE OF Ph.D. THESIS

Investigation and enhancement of Power Quality using Active Regenerative PWM harmonic filter based on Artificial Intelligence

## PROFESIONAL EXPERIENCE

Teaching: UG – 12.3 years  
PG – 10 years

Research : 11 years  
Post PhD : 7 years

S.No	Institution	Post held	Period	
			From	To
1	K.S.Rangasamy College of Technology, Tiruchengode	Associate Professor	01.07.2014	Till Date
2	K.S.Rangasamy College of Technology, Tiruchengode	Assistant Professor	01.06.2010	30.06.2014
3	K.S.Rangasamy College of Technology, Tiruchengode	Lecturer	30.05.2007	31.05.2010

## ADMINISTRATIVE EXPERIENCE

S.No	Name of the Assignment	Duration	Nature of responsibility
1.	Placement and Training Coordinator / Department	June 2014 to till date	❖ Database maintenance of students, making industry ready students for placements, recording placements of students
2.	A-VIEW Coordinator / IITK and IITB Programmes	June 2013 to June 2018	❖ AVIEW coordinator for FDP and STTP conducted by IIT Bombay and IIT Kharagpur Remote Centers sponsored by National Mission on Education through ICT, MHRD and ISTE.
3.	Remote Center Coordinator- IITK and IITB Programmes	June 2018 to till date	❖ RCC for IIT Bombay and IIT Kharagpur Remote Center Programmes
4.	QEEE Coordinator / IITM Programmes	January 2016 to till date	❖ QEEE System Administrator for Online Live class, Live Labs and Bridge Programmes conducted by IIT Madras to students
5.	BOS member/ Department	2013 to till date	❖ Framing Syllabus for subjects allotted and updation
6.	Alumni Coordinator, Group Photo In charge of Overall College	2007-2014	❖ Maintaining alumni details, conduction of alumni meet, arranging group photo session for all departments in the institution

## AWARDS RECEIVED

1. Received **BEST TEACHERS AWARD** for the academic year (2014-2015)
2. Received **Certificate of Excellence** for producing 100% results in the academics

## FUNDS RECEIVED

1. Received **Rs.124460** from MHRD, Govt. of India towards Two week ISTE Work Shop on **Analog Electronics** under the National Mission on Education through ICT, 1st April to 5th April 2013.

2. Received **Rs.30000** from Anna University Chennai towards 6 DAYS Faculty Development Training Programme on **EE 6702 Protection and Switchgear** conducted during 27<sup>th</sup> May 2019 to 01<sup>st</sup> June 2019.

### RESEARCH ACTIVITIES

<b>Research Interests</b>	Power factor correction, Bridgeless Cuk Converter, SEPIC converter, Renewable energy resources
<b>Research Experience</b>	April 2008 to till date

### RESEARCH PUBLICATIONS

<b>NC – 08, IC – 16, IJ – 25</b>		
<b>National Conferences</b>	:	<b>08</b>
<b>IEEE Conferences</b>	:	<b>10</b>
<b>International Conferences (Others)</b>		<b>06</b>
<b>Impact Factor (IF) Journals (Thomson Reuters, ISI)</b>	:	<b>04</b>
<i>International journal of Fuzzy systems (Springer)</i>	:	<b>01</b>
<i>Journal of Circuits, Systems, and Computers(World scientific)</i>	:	<b>02</b>
<i>Journal of testing and evaluation (American Society for Testing and Materials)</i>	:	<b>01</b>
<b>Scopus Indexed (SJR)Journals</b>	:	<b>13</b>
<b>Google Scholar Indexed Journals</b>	:	<b>08</b>

#### National conferences (NC-08)

- Balamurugan, R.** and Kamsala.V, “Full-Bridge Isolated Current Fed Converter with Output Voltage Doubler for Photovoltaic System”, Proceedings of National Conference on Emerging Scenario in Power Engineering and Electrical Drives, K.S.Rangasamy College of Technology, 21 March 2014, pp.180-185.
- Balamurugan, R.** and Ramesh Narayanan, P.T., “High performance BLDC drive using Active Clamp Resonant Dc Link”, Proceedings of the National conference on Efficient power generation and conversion “Efficient Electrical Systems” (NCEPGC-2012), K S Rangasamy College of Technology, Tiruchengode, 16<sup>th</sup> March 2012.
- Balamurugan, R.** and Siva Surya Narayanan, S., “Fuel cell Based Converters”, Proceedings of the National conference on Cutting Edge Techniques In Power Conversion & Industrial Drives, (PCID 2012), Bannari Amman Institute of Technology, Sathyamangalam, 9-10 February, 2012.
- Balamurugan, R.** Sherin Sara Mathew Naveen Kumar , C.P. and Ranjani, S. , “SAZZ converter for fuel cell applications”, Proceedings of the National conference on Trends in Renewable Energy, Sources, Applications and Technologies, TRESAT-2012, Ministry of Earth Sciences and Centre for Nano science and nanotechnology, Sathyabama University, Chennai, 1-3, February 2012.

5. **Balamurugan, R.** Kumar Chinnaiyan, V. and Dr. Jovitha Jerome “Implementation of Control Technique for current compensation in UPS”, Proceedings of the National conference on Power Conversion System Drives Control Techniques, PSNA college of Technology, Dindugal, 30 March, 2007.
6. **Balamurugan, R.** Kumar Chinnaiyan, V. and Dr. Jovitha Jerome “Control Techniques for Current Compensation in front-end of UPS ”, Proceedings of the National conference on Innovative Strategies on Power Systems & Power Electronics, Sona college of Technology, Salem, 16 March, 2007.
7. **Balamurugan, R.** Kumar Chinnaiyan, V. and Dr. Jovitha Jerome “A Novel- DSP Based Converter for UPS Applications”, Proceedings of the National conference on Cutting Edge Techniques In Power Conversion & Industrial Drives, PCID-07, Bannari Amman Institute of Technology, Sathyamangalam, 16-17 February, 2007.
8. **Balamurugan, R.** Arul Kumar, P. , “ Standards on power quality issues”, Proceedings of the National conference on Cutting Edge Techniques In Power Conversion & Industrial Drives, PCID-06, Bannari Amman Institute of Technology, Sathyamangalam, 24-25 March, 2006.

#### **International Conferences (IC-16)**

1. **Balamurugan, R.** and Gurusamy, G. “Fuel cell-Overview, Applications and Current Technology challenges”, International conference on Digital factory, ICDF 2008, Coimbatore Institute of Technology, Coimbatore, 11-13, August 2008.
2. **Balamurugan, R.** and Gurusamy, G. “Control technique for regulation of source current harmonics in the front end UPS”, International conference on sensors security, software and intelligent systems, ISSSIS 2009, IEEE Madras section in association with Oklahoma state university, Coimbatore Institute of Technology, Coimbatore, 8-10, January 2009.
3. **Balamurugan, R.** and Ramesh Narayanan, “Performance analysis of BLDC motor with active clamp Resonant DC Link”, International Conference on Emerging Trends in Advanced Engineering Research, ICETT 2012, Basclios Mathews II College of Engineering, Kollam, Kerala, 20-21, February 2012. (ISBN: 978-93-80624-62-4)
4. **Balamurugan, R.** and Siva Surya Narayanan, S., “Comparative analysis of Fuel Cell based converters”, International Conference on Advances in Engineering, Science and Management 2012 (IEEE-ICAESM-2012), EGS Pillay Engineering college, Nagapattinam, March 30<sup>th</sup> and 31<sup>st</sup>, pp.133-137, 2012. **(IEEE Conf.)**
5. **Balamurugan, R.** and Siva Surya Narayanan, S., “Harmonic analysis in Fuel Cell based converters”, International Conference on Emerging trends on Communication (ICETC-2012), Maria college of Engineering and technology, Attoor, March 8<sup>th</sup> and 9<sup>th</sup>, pp.496-501, 2012.
6. **Balamurugan, R.** and Ramesh Narayanan, “An efficient active clamp Resonant DC link for BLDC motor drive system”, International Conference on Advances in engineering , science and management 2012 (IEEE-ICAESM-2012), EGS Pillay Engineering college, Nagapattinam, March 30<sup>th</sup> and 31<sup>st</sup>, pp.709-714, 2012. **(IEEE Conf.)**
7. **Balamurugan, R.** and Hariprasath, S. “A valley fill SEPIC derived power factor correction topology for LED lighting using one cycle control technique”, International conference on Computer Communication and Informatics, Sri Sakthi Institute of

- Engineering and Technology, Coimbatore, 4<sup>th</sup> -6<sup>th</sup> January, pp. 1-4, 2013. **(IEEE Conf.)**
8. **Balamurugan, R.** and Hariprasath, S. "A fuzzy control based power factor correction for LED lighting applications", International conference on Information Communication and Embedded systems, S.A Engineering College, Chennai, 21<sup>st</sup> -22<sup>nd</sup> February, pp.1118-1122, 2013. **(IEEE Conf.)**
  9. **Balamurugan, R.** and Kamaldas.V, "New Seven-Level Inverter Topology for Renewable Source system", Proceedings of International Conference on Renewable Energy and Sustainable Energy, Karunya University, 5-6 December 2013, pp.273-278. **(IEEE Conf.)**
  10. **Balamurugan, R.** and Kamsala.V, "Active Clamp DC-DC Converter with Resonant Switching for Renewable Energy Source", Proceedings of International Conference on Renewable Energy and Sustainable Energy, Karunya University, 5-6 December 2013, pp.284-289. **(IEEE Conf.)**
  11. **Balamurugan, R.** and Pearly Catherine, J., "Simulation Analysis of Power Quality Improvement in BLDC Motor Drive Using Type III Cuk Derived Converter" Proceedings of IEEE Sponsored 2nd International Conference on Electronics and Communication Systems (ICECS 2015) at Karpagam College of Engineering, Coimbatore, pp.1507-1511, 26<sup>th</sup>-27<sup>th</sup> February 2015. **(IEEE Conf.)**
  12. **Balamurugan R.** and Vishvanath M., "LUO Converter Fed Switched Reluctance Motor Drive" Proceedings of 2nd IEEE International Conference on Innovations Information, Embedded and Communication Systems (ICIIECS), Karpagam College of Engineering, Coimbatore on 19<sup>th</sup> – 20<sup>th</sup> March 2015.
  13. **Balamurugan R.** and Vishvanath M., "An Approach for Power Factor Correction in SRM Drives Using DC-DC Converters" Proceedings of International Conference on Advances in Emerging Technology (ICAET), Jaya Engineering College, Chennai on 28<sup>th</sup> March 2015.
  14. **Balamurugan, R.** and Pearly Catherine, J., "Bridgeless Type III Cuk Derived Converter fed BLDC Motor Drive" Proceedings of International Conference on Emerging Trends in Engineering Technology (ICETET'2015) at Nehru Institute of Engineering and Technology, Coimbatore, pp. 8, 27<sup>th</sup> March 2015. **(IEEE Conf.)**
  15. **Balamurugan, R.** and Pireethi R, "Power Factor Correction in BLDC motor drives using DC-DC converters" Proceedings of International Conference on Computer Communication and Informatics (ICCCI),Coimbatore, pp. 8, 7-9<sup>th</sup> January 2016. **(IEEE Conf.)**
  16. **Balamurugan, R.** and Pireethi R., "Bridgeless Isolated Cuk Converter Fed BLDC motor", Proceedings of International conference on Electronics Communication system(ICECS-2016), Karpagam College of Engineering, Coimbatore,Vol.6,No.156, pp.3692-3696,25<sup>th</sup> -26<sup>th</sup> February 2016. **(IEEE Conf.)**

#### **International Journals (IJ – 25)**

1. **Balamurugan, R.** and Gurusamy, G. "Supervisory Trained Sine Wave Template for Reduction of Harmonic source current from Computer loads", *CiiT International Journal of Digital Signal Processing*, Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586,DOI: DIP092010004, Vol. 2, No. 9, pp. 300-306, 2010. **(Google scholar)**
2. **Balamurugan, R.** and Gurusamy, G. "Back propagated NN Based Active source

- current compensating for Utility affecting Loads”, *CiiT International Journal of Artificial Intelligent Systems and Machine Learning*, Vol. 2, No. 8, pp. 169-174, 2010. **(Google scholar)**
3. **Balamurugan, R.** and Gurusamy, G. “Fuzzy tuned AHF for Input current wave shaping using PWM Converters”, *International Journal of Applied Engineering Research*, Vol. 5, No.15, pp. 2579–2594, 2010. **(Scopus Indexed, SJR : 0.13)**
  4. **Balamurugan, R.** and Gurusamy, G. “Harmonic Optimization by Single Phase Improved Power Quality AC-DC Power Factor Corrected Converters”, *International Journal of Computer Applications*, Vol. 1, No. 5, pp. 46-53, 2010. **(Google scholar)**
  5. **Balamurugan, R.** and Gurusamy, G. “Gradient Descent Learning for Utility Current Compensation using Active Regenerative PWM Filter”, *Journal of Computer Science*, Vol. 7, No.12, pp.1760-1764, 2011. **(Scopus Indexed, SJR : 0.19)**
  6. **Balamurugan, R.** and Gurusamy, G. “Simulation and Investigation of Regenerative Converter Based Intelligent AHF for Harmonic Optimization”, *European Journal of Scientific Research*, Vol. 56, No. 2, pp. 256-265, 2011. **(Scopus Indexed, SJR : 0.123)**
  7. **Balamurugan, R.** Ayyar, K., Prabha, S.U. “Model Order Reduction with Genetic Algorithm based Speed Control of Three Phase Induction Motor Drive” *Archives Des Sciences*, Vol. 65, No. 11, pp. 88-103, 2012.
  8. **Balamurugan, R.** Nithya R., “Power Factor Improvement Using Single Phase Bridgeless Cuk Converter Topology Based on Fuzzy Logic Control”, *International Journal of Fuzzy Systems*, Vol. 15, No. 4, pp. 480-486, 2013.**(IF:2.396) – Springer.**
  9. **Balamurugan, R.** and Kamaldas, V. “A Carrier based PWM Inverter for Photovoltaic Power Generation System”, *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 3, Issue 4, pp. 8595-8604, 2014. **(Google scholar)**
  10. **Balamurugan, R.** and Kamsala K., “ ZVS based current fed converter for PV system with voltage doubler”, *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 3, Issue 4, pp. 8653-8660, 2014. **(Google scholar)**
  11. **Balamurugan, R** Hariprasath S., and Nithya R. “Power Factor Correction using Valley-Fill SEPIC Topology with Fuzzy Logic Control” *TELKOMNIKA Indonesian Journal of Electrical Engineering*, Vol. 12, No. 11, pp. 7622-7630,2014. **(Scopus Indexed, SJR : 0.24)**
  12. **Balamurugan, R.** and Pearly Catherine, J. “An Approach of Power Factor Correction in BLDC Motor Drives using Cuk Derived Converters”, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, Vol. 12, No. 12, pp. 8092-8097, 2014. **(Scopus Indexed, SJR : 0.24)**
  13. **Balamurugan, R.** and Vishvanath, M. “Bidirectional LUO Converter Fed Switched Reluctance Motor”, *TELKOMNIKA Indonesian Journal of Electrical Engineering*, Vol. 12, No. 12, pp. 8120-8125, 2014. **(Scopus Indexed, SJR : 0.24)**
  14. **Balamurugan, R.** Kamsala K., Nithya R. “Current Fed Full-Bridge Converter with Voltage Doubler For Photovoltaic System Applications” *Journal of Electrical and Electronics Engineering, IU-JEEE*, Vol. 14, No. 2, pp. 1779-1784, 2014. **(Scopus Indexed, SJR: 0.1)**

15. **Balamurugan, R.** and Nithya R. "FC/PV Fed SAF with Fuzzy Logic Control for Power Quality Enhancement", *International Journal of Power Electronics and Drives*, Vol.5, No.4, pp. 470-476, 2015. **(Scopus Indexed, SJR : 0.13)**
16. **Balamurugan, R.** and Pearly Catherine, J. "A Power Factor Corrected Bridgeless Type III Cuk Derived Converter fed BLDC Motor Drive" *TELKOMNIKA Indonesian Journal of Electrical Engineering*, Vol. 14, No. 03, pp. 420 to 427, 2015**(Scopus Indexed, SJR : 0.24)**
17. **Balamurugan, R.** and Vishvanath, M. "An Review of Power Factor Correction in SRM Drives Using Bridgeless Converters", *TELKOMNIKA Indonesian Journal of Electrical Engineering*, Vol. 14, No. 03, pp. 441 to 445, 2015.**(Scopus Indexed, SJR : 0.24)**
18. **Balamurugan, R.** and Pearly Catherine, J. "Bridgeless PFC Cuk Derived Converter fed BLDC Motor with PID and Fuzzy Logic Controller", *International Journal of Research and Engineering (IJRE)*, Vol. 2, no. 4, pp. 57-62, 2015.
19. **Balamurugan R.** and Vishvanath M., "Torque Ripple Reduction in SRM Drive Using LUO Converter", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 4, Issue. 6, pp. 1537-1542, 2015.
20. **Balamurugan, R.**, Dhanasekeran P.M., and Nithya R., "New Single Phase Bridgeless CUK Converter Topology for Power Factor Enhancement Based on Fuzzy Logic Control", *Journal of Circuits, Systems, and Computers*, Vol. 24, No. 7, pp. 1550102 (15 pages), 2015. **(IF: 0.234)**
21. **Balamurugan, R.** Nithya R., "Photovoltaic based shunt active power filter using p-q theory for enhancing the power quality" *Journal of Electrical and Electronics Engineering, IU-JEEE*, Vol. 15, No. 02, pp. 1959 to 1964, 2015 **(Scopus Indexed, SJR: 0.1)**
22. **Balamurugan, R.** and Pireethi R., "Bridgeless Isolated Cuk PFC implementation using PID and neural controller" *TELKOMNIKA Indonesian Journal of Electrical Engineering*, Vol. 2, No. 01, pp. 88 to 95, 2016.**(Scopus Indexed, SJR : 0.24)**
23. K. Sakthivel, S. Balu, C. Nelson Kennedy Babu and **R. Balamurugan**, " Investigation of Optimal Segmentation Algorithm for CT Lung Nodules Using Cad System", *Asian Journal of Information Technology*, 15: 3742-3747,2016. **(Scopus Indexed, SJR :0.105)**
24. **Balamurugan, R.** Nithya R., "Solar PV Based Shunt Active Filter with p-q Theory Control for Improvement of Power Quality", *Journal of Circuits, Systems, and Computers*, Vol. 26, No. 9, pp. 1750133 (14 pages), 2017. **(IF: 0.234)**
25. **Balamurugan, R.**, and Arun, R., "Analysis of Energy-Efficient Clustering Algorithms for Wireless Sensor Network (WSN)", *Journal of testing and evaluation* **(IF: 0.669) (Accepted)**



**PHD SUPERVISION DETAILS**

No. PhD Scholars : 8 (On going)

Sl. No.	Name of the candidate	Research Title	Registration / Completion (Year)	In Progress/ Completed	Principal /Co-Supervisor
1.	R.Radhamani	Harmonic minimization using cascaded H bridge multilevel inverter	2015	Registration confirmed	Principal Supervisor
2.	A.Thangadurai	Human Physiological (Heart, Lungs & Kidney) Analysis for Various Injuries Detection using Soft Computing Techniques	2015	Registration confirmed	Principal Supervisor
3.	R. Senthilkumar	Harmonics control in drives using DC-DC converters	2016	Registration confirmed	Principal Supervisor
4.	V. Rakesh	Speed and current sensor fault detection for induction motor drives	2016	Registration confirmed	Principal Supervisor
5.	R.Arun	Hybrid Intelligence Technique to optimize Energy in wireless sensor networks	2016	Registration confirmed	Principal Supervisor
6.	K.S.Shanmugaraj	Impact of Distributed generation in radial distribution network	2012	Registration confirmed	Principal Supervisor
7.	S.Shree Ram Senthil	Bridgeless power factor correction in renewable energy based DC drives	2018	Course work	Principal Supervisor
8.	M.Venkatachalam	Performance and stability analysis of harnessing green energy from Hygro electricity	2017	Registration confirmed	Principal Supervisor

**PG SUPERVISION DETAILS**

No. of PG projects completed : 11

Sl. No.	Title of the Thesis Supervised	Name of the candidate	Completed (year)	In progress (With Status)
1.	Inverter control for controlling the PMLDC motor.	Ramesh Narayanan P.T.	2012	Completed
2.	A novel converter control for fuel cell applications	Siva Suriya Narayanan S	2012	Completed

3.	DC-DC converter based power factor correction for LED applications	Hariprasath S	2013	Completed
4.	A new efficient cuk derived topology for power factor correction	Srivikraman K	2013	Completed
5.	A new simplified multilevel inverter topology for renewable energy sources	Kamaladas V	2014	Completed
6.	ZVS based Active Clamp DC-DC Converter for Renewable Energy Sources	Kamsala V	2014	Completed
7.	Power Factor Corrected BLDC Motor Drive using Bridgeless Cuk Derived Converter	Pearly Catherine J	2015	Completed
8.	Bidirectional LUO Converter Fed SRM Drive	Viswanath M	2015	Completed
9.	Design and Development of Hybrid Multilevel Inverter for Pumping Application Interface with Photovoltaic	Kiruthika P	2015	Completed
10.	Implementation of Particle Swarm Optimization Algorithm for Selective Harmonic Elimination Strategy in Multilevel Inverter	Suresh Kumar M	2015	Completed
11.	Power Factor Correction in BLDC motor drive using bridgeless isolated Cuk Converter	Pireethi R	2016	Completed

**CONFERENCE / SEMINAR / WORKSHOPS ORGANIZED/COORDINATED/ATTENDED**

Programme Organized : 02  
 Programmes Co-ordinated : 21  
 Programmes and Workshops attended : 13

**PROGRAMMES ORGANIZED**

Sl.No.	Title of programme	Month/Year	Duration /Type	Venue	Funding Agency/Self Mode
1.	Analog Electronics	4 <sup>th</sup> June to 14 <sup>th</sup> June 2013	Two week / ISTE Work Shop	K.S.Rangasamy College of technology	MHRD, Govt. of India, IIT Kharagpur
2.	Electric Energy	14 <sup>th</sup>	One week /	K.S.Rangasamy	Anna University

	Generation, Utilization and Conservation (EE6801)	December to 20 <sup>th</sup> December 2016	FDTP	College of technology	Chennai
3.	Protection and Switchgear EE 6702	27 <sup>th</sup> May 2019 to 01 <sup>st</sup> June 2019	Six Days FDTP	K.S.Rangasamy College of technology	Anna University Chennai

### **PROGRAMMES CO-ORDINATED**

<b>Sl.No.</b>	<b>Title of programme</b>	<b>Month/Year</b>	<b>Duration /Type</b>	<b>Venue</b>	<b>Funding Agency/Self Mode</b>
1.	Advanced Computing, Control And Automation- 09	3 <sup>rd</sup> & 4 <sup>th</sup> April 2009	Two days/ National Conference	K.S.Rangasamy College of technology, Tiruchengode	CSIR
2.	Engineering Mechanics	25 <sup>th</sup> November To 05 <sup>th</sup> December 2013	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
3.	Signals And Systems	2 <sup>nd</sup> January To 12 <sup>th</sup> January 2014	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
4.	Fluid Mechanics	20 <sup>th</sup> May To 30 <sup>th</sup> May 2014	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
5.	Computer Programming	16 <sup>th</sup> June To 21 <sup>st</sup> June 2014	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
6.	Computer Networking	30 <sup>th</sup> June To 05 <sup>th</sup> July 2014	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
7.	Cyber Security	10 <sup>th</sup> July To 20 <sup>th</sup> July 2014	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
8.	Control Systems	2 <sup>nd</sup> December To 12 <sup>th</sup> December 2014	Two Week / ISTE Work Shop	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
9.	Pedagogy For Effective Use Of ICT	5 <sup>th</sup> January To 31 <sup>st</sup>	Two Week / ISTE	K.S.Rangasamy College of	MHRD, Govt. Of India, IIT

	In Engineering Education	January, 2015	STTP	technology, Tiruchengode	Bombay
10.	Introduction To Design Of Algorithms	25 <sup>th</sup> May To 30 <sup>th</sup> May, 2015	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
11.	Environmental Studies	25 <sup>th</sup> May To 30 <sup>th</sup> May, 2015	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
12.	Engineering Physics	8 <sup>th</sup> December To 18 <sup>th</sup> December, 2015	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
13.	Introduction To Structural Engineering	25 <sup>th</sup> December To 30 <sup>th</sup> December, 2015	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
14.	Technical Communication	30 <sup>th</sup> November To 5 <sup>th</sup> December, 2015	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
15.	Use Of ICT In Education For Online And Blended Learning	2 <sup>nd</sup> May To 10 <sup>th</sup> July, 2016	Four Week / ISTE FDP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Bombay
16.	CMOS, Mixed Signal and Radio frequency VLSI design	30 <sup>th</sup> January to 4 <sup>th</sup> February, 2017	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
17.	Electric Power System	10 <sup>th</sup> July to 15 <sup>th</sup> July, 2017	Two Week / ISTE STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, Govt. Of India, IIT Kharagpur
18.	FDP 101x	03 <sup>rd</sup> August to 07 <sup>th</sup> September 2017	Two week/ FDP	K.S.Rangasamy College of technology, Tiruchengode	AICTE approved FDP Under the aegis PMMMNMTT
19.	Pedagogy for Online and Blended Teaching-Learning Process(FDP 201x)	14 <sup>th</sup> September to 10 <sup>th</sup> October 2017	Two week/ FDP	K.S.Rangasamy College of technology, Tiruchengode	AICTE approved FDP Under the aegis PMMMNMTT, IIT Bombay
20.	Rerun FDP 101x & FDP	Two-Week 08 <sup>th</sup> March	Two week/ FDP	K.S.Rangasamy College of	AICTE approved FDP

	201x	to 12 <sup>th</sup> April 2018 03 <sup>rd</sup> May 2018 to 30 <sup>th</sup> May 2018		technology, Tiruchengode	Under the aegis PMMMNTT, IIT Bombay
21.	Rerun FDP 201x - Pedagogy for Online and Blended Teaching-Learning Process Autumn 2018	30 <sup>th</sup> October 2018 to December 13 <sup>th</sup> 2018	Two week/ FDP	K.S.Rangasamy College of technology, Tiruchengode	AICTE approved FDP Under the aegis PMMMNTT , IIT Bombay

### **PROGRAMMES ATTENDED**

<b>Sl.No.</b>	<b>Title of programme</b>	<b>Month/Year</b>	<b>Duration /Type</b>	<b>Venue</b>	<b>Funding Agency/Self Mode</b>
1.	Power Quality Problems and Solutions	10 <sup>th</sup> &11 <sup>th</sup> September 2005.	Two days/ National workshop	Bannari Amman Institute of Technology, Sathyamangalam	Numeric Power Systems, Chennai
2.	VLSI design and technology	September 2005	One day/ National workshop	Bannari Amman Institute of Technology, Sathyamangalam	Self Mode
3.	Application of Digital Variable Speed Drives	13 &14 September, 2007	Two days/ workshop	Kongu Engineering College, Perundurai	Self Mode
4.	Emerging Trends in Embedded controller and its applications	14 <sup>th</sup> &15 <sup>th</sup> November, 2008	Two day / National seminar	K.S.Rangasamy College of technology, Tiruchengode	CSIR-India
5.	Simulation Software Packages for Electrical Engineers	26&27 November, 2009.	Two days / Workshop	K.S.Rangasamy College of technology, Tiruchengode	Self Mode
6.	Analog Electronics	1 <sup>st</sup> April to 5 <sup>th</sup> April 2013	Two week / ISTE Work Shop	IIT Kharagpur	MHRD, Govt. of India,
7.	Nanotechnology for Sustainability: Energy conversion and Storage	06 <sup>th</sup> to 18 <sup>th</sup> May 2013	Two weeks /FDP	K.S.Rangasamy College of technology, Tiruchengode	AICTE
8.	Advanced Control Techniques for Electric Drives	22 <sup>nd</sup> and 23 <sup>rd</sup> November 2013	Two days/ National seminar	Vivekananda Institute of Engineering and Technology for women	AICTE

9.	Power Electronics Application to Distributed Generation	30 <sup>th</sup> October to 6 <sup>th</sup> November 2013	One Week / FDP	Government College of Engineering, Salem.	TEQIP-II
10.	Technical Communication for Scientists and Engineers	8 <sup>th</sup> October to 5 <sup>th</sup> December, 2015	Two – Week / STTP	K.S.Rangasamy College of technology, Tiruchengode	MHRD, New Delhi, IIT Bombay
11.	Power, Communication and Cyber Security Computational Models	30 <sup>th</sup> March 2016	One day / National conference	NSN college of engineering and technology, Karur.	Self mode
12.	Smart Grid-Technology and Applications	22 <sup>nd</sup> & 23 <sup>rd</sup> , April 2016	Two day / National Seminar	K.S.Rangasamy College of technology, Tiruchengode	Self mode
13.	Power Electronics Applications in Energy Efficient Renewable and Microgrid systems	10 <sup>th</sup> & 11 <sup>th</sup> February, 2017	Two day / National Seminar	K P R Institute of Engineering and Technology, Coimbatore	CSIR
14.	Innovations in science, engineering and technology for sustainable development	30 <sup>th</sup> & 31 <sup>st</sup> March ,2018	Two day / International National conference	Muthayammal Engineering college, Rasipuram	DST-SERB
15.	Workshop on J Gate - an electronic gateway for research	July 10 <sup>th</sup> 2019	One day/ National Workshop	K.S.R College of Engineering, Tiruchengode	Self mode

### **GUEST LECTURES DELIVERED**

- **Nanotechnology in Fuel cells** in AICTE sponsored two weeks Faculty Development Programme on Nanotechnology for Sustainability: Energy conversion and Storage held at Department of EEE, K S Rangasamy College of Technology, on 07<sup>th</sup> May 2013.

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

S. No.	Name of Professional Body	Grade of Membership	Membership No.
1.	IAENG	Life member	139875

2.	ISTE	Life Member	LM 54041
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## **REVIEWER DETAILS**

### **Reviewer for Conferences**

1. Chania - Electric Power Systems, High Voltages, Electric Machines (POWER '13) conference
2. Kuala Lumpur - Renewable Energy Sources (RES '13) conference
3. Chania - power and energy systems (POES '13) conference
4. WSEAS transactions on communications journal
5. WSEAS transactions on power systems journal
6. Paris - Energy Planning, Energy Saving, Environmental Education (EPESE '13) Conference
7. Paris - systems (ECS '13) conference
8. 4th European Conference of Systems

### **Reviewer for Journals**

1. IEEE transactions on Industrial Electronics
2. Journal of Electrical Engineering and Technology
3. International journal of Electronics - Taylor & Francis
4. WSEAS Journals and conferences- WSEAS
5. International Journal of Power and Energy systems -Elsevier
6. Asian Journal of Control-John Wiley
7. Journal of Circuits, Systems and Computers- World scientific
8. International journal of Power Electronic Drives and Systems- IAES Journals

### **EDITORIAL BOARD MEMBER**

1. International Journal of Advanced Engineering and Nano Technology (IJAENT)  
International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)

**(Dr.R.Balamurugan)**