

PROFILE



- 1. Name** : Dr. K.R.VALLUVAN B.Sc., B.Tech., DIISc., M.E., Ph.D.,
MISTE, FIE, MIEEE.
- 2. Date of birth** : 28-03-1962
- 3. Designation** : Professor - ECE & Controller Of Examinations,
Address: Dept. of ECE,
Velalar College of Engineering & Technology, Erode – 638 012
Tamilnadu, India.

4. Educational Qualifications:

Degree	University	Year of passing	Field of Specialisation	Marks, Class
SSLC	Board of Sec. Edn, TN	May 1978	General	73%
PUC	Madras University	June 1979	Mathematics, Physics, Chemistry	79%
B.Sc.	Madras University	May 1982	Physics	84%, First
B.Tech.	Anna University	May 1985	Electronics Engineering	71%, First
DIISc.	Indian Institute of Science	July 1986	Electronics Design Technology	5.9/8, First
M.E.	Bharathiar University	Dec 2001	Computer Science & Engg.	82%, FWD
Ph.D.	Anna University	12-10-2009	Information & Commn. Engg.	-

Title of the PhD Thesis: Implementation of ADALINE on DSP and FPGA for Measurement of Harmonics.

- Anna University Chennai – Supervisor Recognition No: 2740068
- Anna University Faculty code: 7329102
- AICTE Faculty code : 1-725849133 (VCET Permanent Id: 1- 3451381)
- Life Member, ISTE (LM 27847, since 5-11-99)
- IEEE Member No: [92135852](#) (since Nov. 2011)
- FELLOW of The Institution of Engineers (India) – F1207063 – since 16-2-16

5. Employment record –Experience:Total : 37years (Academic:26 years+ Industry:11 years)

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Institution	Designation	Period		Duration
		From	To	
Velalar College of Engg. & Tech.	Prof – ECE & COE	1-7-2011	Till date	
EBET Group of Institutions	Dean –IR & Prof., CSE	14-6-2010	31-6-2011	1y
Kongu Engineering College	Professor	1-8-2007	31-5-2010	2y 9m
	Assistant Professor	1-3-2001	31-7-2007	5y 8 m
	Lecturer	18-6-1997	28-2-2001	3 y 6m
Design Consultant	Electronic System Designer	1-11-1996	17-6-1997	0y7.5m
Lakshmi Steel Rolling Mills	Works Manager	10-8-1994	31-10-1996	2 y 2m
Wipro GE Medical Systems, Bangalore	Senior Design Engineer	1-4-1993	31-7-1994	1y 4m
SPA Computers Ltd., Bangalore	Deputy Manager	15-2-1989	31-3-1993	4 y 1 m
ASEA Ltd. Bangalore	Quality Assurance Engineer	1-8-1986	11-2-1989	2 y 6m

6. Publications:

Books Authored:

No	Title of the Book	Authors	Issue Date	No. of pages, Price	ISBN	Publisher
1	Medical Electronics	Dr.K.R.Valluvan, B.S.Sharomena Aarthi	1 st edn. 2015, 2 nd edn 2016, 12-10- 17	240, Rs.165	978-93- 86532-44-2	Charulatha Publishers
2	Fundamentals of Electric Circuits & Electron Devices	Dr.K.R.Valluvan, T.Sathya, P.Nandhini	2018, 12-2-18	290, Rs.275	978-93- 86532-67-1	Charulatha Publishers
3	Fundamentals of Analog Electronic Circuits –Volume1	Dr.K.R.Valluvan, K.S.Murugesan	2018, 27-7-18	340, Rs.325	978-93- 86532-95-4	Charulatha Publishers
4	Fundamentals of Semiconductor Devices	Dr.K.R.Valluvan, M.Vijayan	2018, 25-10- 18	245, Rs.275	978-93- 88335-17-1	Charulatha Publishers
5	Basic Electrical Engineering	Dr.K.R.Valluvan, M.Vijayan T.Sathya, P.Nandhini	2019, 8-2-19	380, Rs.450	978-93- 88335-64-5	Charulatha Publishers
6	Medical Electronics	Dr.K.R.Valluvan, B.S.Sharomena Aarthi Dr.D.Ganeshkumar	Revised and enlarge d edn. 2019, 6-6-19	252, Rs.225	978-93- 89051-08-7	Charulatha Publishers
7	Fundamentals of Operational Amplifiers and Applications	Dr.K.R.Valluvan M.Vijayan P.Senthilkumar	2020, 14-1-20	278, Rs.350	978-93- 897336-83-0	Charulatha Publishers
8	Analog Electronics	Dr.K.R.Valluvan, K.S.Murugesan	2023, August 2023		978-81- 19056-91- 0	Charulatha Publishers

6.1. International Journal Publications :

Scopus ID : 26428598800

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Publons WoS ID : AAS-7473-2020

- [1] **K.R.Valluvan** A.M.Natarajan “Comparison of FFT and ADALINE Algorithms for Measurement of Current Harmonics Using Real-Time Data” GESTS Intl. J of Computer Science & Engg. Vol. 4 No.1, March 2008, pp. 43-52.
- [2] **K.R.Valluvan**, A.S.Kandasamy, A.M.Natarajan “A Survey of Voltage and Current Harmonics in Various Industries Connected to a State Electrical Grid” Intl. J of Applied Engg. Research Vol. 3 No.6, June 2008, pp. 801-816.

- [3] **K.R.Valluvan**, A.M.Natarajan " Implementation of ADALINE Algorithm on a FPGA for Computation of Total Harmonic Distortion of load current" Intl. J. on Automatic Control and Systems Engineering, ISSN 1687-4811, Volume 8, Issue II, December 2008, pp. 35-41.
- [4] K. Gomathi, S. Sellakumar and **K. R. Valluvan**, "Predictability and Control of Harmonics in PWM inverters using Back Propagation Network", CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Print: ISSN 0974 – 9667 & Online: ISSN 0974 – 9543, November 2009, DOI: AIML112009006.
- [5] **K.R.Valluvan**, A.M.Natarajan, "Implementation of ADALINE on a DSP for Real-time Measurement of Current Harmonics" Int. J. Power Electronics, Inderscience, Vol.3, No.1, 2011, pp.65 -77. DOI -10.1504 / IJPELEC.2011.037334
- [6] **K.R.Valluvan**, D.Kalimani, "Reducing Electrical System Harmonics by Relocation of Power Factor Correction Capacitors" Journal of Electrical Engg., Vol.11, Jan., 2011, ed.1, pp. 93-102.
- [7] P.Tamilvani, **K.R.Valluvan**, "Hybrid Modulation Technique for Cascaded Multilevel Inverter for High Power and High Quality Applications in Renewable Energy Systems" International Journal of Electronic and Electrical Engineering, ISSN 0974-2174 Volume 5, Number 1 , 2012, pp. 59-68. Impact factor : 0.856.
- [8] A.Anna lakshmi, **K.R.Valluvan**, " A Survey of Algorithms for Defending MANETs against the DDoS Attacks" International Journal of Advanced Research in Computer Science and Software Engineering, ISSN: 2277 128X Volume 2, Issue 9, September 2012, pp.155-164.
- [9] N.Naveen, A.Annalakshmi, **K.R.Valluvan**, "A Cogitate study of IDS in MANET" International Journal of Computer Science and Information Technology & Security, ISSN: 2249-9555 Vol. 2, No.5, October 2012, pp. 944-950.
- [10] V.Gowri Prakash, **K.R.Valluvan**, "A Study on Multistage Cascading Classification for Digital Mammography" Int. J. of Information Technology and Computer Sciences Perspectives, ISSN (P) :2319-9016, Vol.2, No.1 , January –March 2013, pp.135-140
Annexure II, Impact factor- 2013: 5.058.
- [11] T.Santhanayaki, **K.R.Valluvan**, "Identification of Sags and Swells Using PIC Microcontroller", International Journal of scientific Research Engineering & Technology (IJSRET).Volume 1 , Issue 12, March 2013, pp. 11-16
- [12] G.Rajeshkumar, **K.R.Valluvan**, " A Comparative Study of Secure Intrusion Detection Systems for Discovering Malicious Nodes on MANETs", Int. J. of Computer Applications (0975-8887), Vol. 67, no.18, April 2013, pp. 1-5
- [13] G.Sudha, **K.R.Valluvan**, T. Basavaraju, " Fault Diagnosis of Transmission Lines with Rogowski Coils as Current Sensors", International Journal of Computer Applications (0975 – 8887) Volume 70– No.25, May 2013, pp. 19-25. *IF:0.821*
- [14] A.Annalakshmi, A.Anandakumar, G.Nagaraj, **K.R.Valluvan**, " Comparative Analysis of Architectures for Intrusion Detection Systems against DoS Attacks in MANETs based on Chi-Square Test", International Journal of Computer Applications (0975 – 8887) Volume 87 – No.4, February 2014, pp.27-33.
- [15] E.Haripriya, **K.R.Valluvan**, " A Survey and A Comparative Study of Multicast Routing Techniques in Disconnected ADHOC Networks " International Journal of Scientific Research Engineering & Technology (IJSRET), ISSN : 2278-0882,Volume 2 Issue 4,July 2013, pp 237-241, Impact factor 3.241 (PIF).

- [16] G.Rajeshkumar, **K.R.Valluvan**, "Performance Evaluation Of Dynamic Source Routing Under Black Hole Attack", Journal of Theoretical and Applied Information Technology, Vol. 66 No.1, pp- 290 to 297, August 2014, ISSN: 1992-8645
- [17] P.Tamilvani and **K.R.Valluvan**, " Harmonic Mitigation in Various Levels of Multilevel Inverter with Different Loads", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 2, Issue 9, September 2014, pp.1989-1996, ISSN(online) 2321-2004, ISSN(print):2321-5526
Impact factor 1.112
- [18] G.Sudha and **K.R.Valluvan**, " A Novel Approach to Fault Diagnosis of Transmission Line Using Rogowski Coil", International Review of Electrical Engineering, Vol.9, no.3, May-June 2014, pp-656 -662. Annexure-II, SJR-0.4, ICV: 17.21
- [19] V. Gowri, **K.R.Valluvan** "A Study on Image Classification Methods and Techniques for Improving Accuracy" International Journal of Advanced Research in Computer Engineering & Technology, ISSN 2278-1323, Volume 3, Number 1 , 2014, pp. 124-126. *Annexure II, Impact factor- 2013: 2.793.*
- [20] P.Tamilvani and **K.R.Valluvan**, "Comparative Analysis of THD for Various Levels of Multilevel Inverter with Different Loads" , International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 9, Number 24 (2014) pp. 23967-23983, IF: 0.14
- [21] A.Anna lakshmi, **K.R.Valluvan**, " Support Vector Machine And Fuzzy Based Intrusion Detection And Prevention For Attacks In Manets" ,[International Journal of Mobile Network Design and Innovation](#), Volume 6 Issue 2, November 2015, pp. 1-10.
- [22] M. Kavitha, **K.R. Valluvan**, " Automatic Light Control System for Seminar Halls Using Fuzzy Logic ", CiiT International Journal of Fuzzy Systems, Print: ISSN 0974 – 9721 & Online: ISSN 0974 – 9608 , 2015 , pp. 35 -39
- [23] A.Anna Lakshmi and **K.R.Valluvan**, " Cluster based Secure Group Communication Model for MANET ", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 9 (2015), pp. 6820-6831.
- [24] S.Gopalakrishnan and **K.R.Valluvan**, " VLSI Implementation of Area Efficient Fast Parallel Fir Digital Filters Based On Fast Fir Algorithm ", IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 5, Issue 2, Ver. II (Mar. - Apr. 2015), PP 10-20 e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197, DOI: 10.9790/4200- 05221020
- [25] K.Vanchinathan and **K.R Valluvan**, " Improvement of Time Response for Sensorless Control of BLDC Motor Drive Using Ant Colony Optimization Technique " , International Journal of Applied Engineering Research, ISSN 0973-4562 , Vol. 10 No.55 2015, pp. 3519 - 3524
- [26] E.Haripriya, K.R.Valluvan, "Survey of Routing Algorithms used in Delay Tolerant Networks", International Journal of Advanced and Innovative Research, ISSN 2278- 7844, Volume 4, Issue 11, November 2015, Impact factor 3.717.
- [27] E.Haripriya, K.R.Valluvan, "Performance Analysis of Multicast Routing in Mobile Social Networks", International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, No.87, December 2015, Annexure II (2014 version).
- [28] P.Ragavi and K.R.Valluvan, "Monitoring of Hazardous Gases in Process Industries Through Internet ", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 5, Issue 02, February-2016, pp. 742 – 747.

- [29] G Sudha and K.R. Valluvan, “ High Frequency Modelling Of Smart Sensor For Precise Power Quality Assessment Using Fuzzy Logic”, Journal of Circuits, Systems and Computers, ISSN: 0218- 1266 , Vol. 25, No. 6 , February 2016.pp.1650056-1 to 1650056-16 Annexure-I.
- [30] Divya.P and Valluvan.K.R, “Design Of Constant Multiplier Architecture For FIR Filter Based On Sub-Subtraction Algorithm”, International Journal of Modern Trends in Engineering and Science, Volume 03 Issue 08, 2016, ISSN no: 2348-3121, pp. 18-21
- [31] G.Rajeshkumar & Dr.K.R.Valluvan “An Energy Aware Trust Based Intrusion Detection System with Adaptive Acknowledgement for Wireless Sensor Network” Wireless Personal Communications ISSN: 0929-6212 (Print) 1572-834X (Online) Publisher- Springer US DOI 10.1007/s11277-016-3349-y & pp 1-15, 04 May 2016.(Annexure-I)
- [32] V.Gowri and K.R.Valluvan, “ Psychoanalysis Of Noise Detection Using Heterogeneous Low Frequency Filters”, IJEST (ISSN 2455-8494) Vol.01, No.01 January 2016, pp.1-12
- [33] P. Tamilvani and K.R. Valluvan, “Modelling and Control of 27-Level Inverter Using unified Phase Shifted Modulation (UPPWM) for Power Systems”, American-Eurasian Journal of Scientific Research 11 (2): pp. 125-134, 2016. ISSN 1818-6785 IDOSI Publications, 2016, DOI: 10.5829/idosi.ajejr.2016.11.2.22771
- [34] E.Haripriya and K.R.Valluvan, “Enhanced Bio Inspired Multicast Routing for Delay Tolerant Networks”, Asian Journal of Research in Social Sciences and Humanities, ISSN 2249-7315, vol. 6, no.8, August 2016, pp. 318 – 325, DOI NUMBER : 10.5958/2249-7315.2016.00612.2.
- [35] E. Haripriya and K. R. Valluvan, “ Chief and Middle Multicast Routing Protocol for Delay Tolerant Networks”, Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 9, September 2016, pp. 950-961. ISSN 2249-7315 DOI NUMBER: 10.5958/2249-7315.2016.00845.5 950
- [36] K. Vanchinathan and Dr. K. R. Valluvan, “A Study of Sensorless BLDC Motor Drives and Future Trends”, Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 9, September 2016, pp. 1863-1887, ISSN 2249-7315, DOI NUMBER: 10.5958/2249 7315.2016.00912.6
- [37] P. Tamilvani and K.R. Valluvan, “CLPWM: Carrier Level Shifted Pulse Width Modulation Based Multilevel Inverter Topology”, Asian Journal of Research in Social Sciences and Humanities Vol. 6, Special conference Issue Sept 2016, pp. 14-22. ISSN 2249-7315 DOI Number: 10.5958/2249-7315.2016.00940.0, Impact factor 0.291
- [38] E. Haripriya and K. R. Valluvan, “ Ant Colony Multicast Routing for Delay Tolerant Networks”, Vol. 14, 2016 Special Issue International Journal of Computer Science and Information Security (IJCSIS), <https://sites.google.com/site/ijcsis/>, ISSN 1947-5500, pp.68-71.
- [39] A.Anna lakshmi, K.R.Valluvan, “Certificate Based Secure Communication Scheme for Cluster Based Architecture in MANET” , International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 4, December 2016 ,pp. 2386-2397
- [40] N. Jayanthi and Dr. K. R. Valluvan, “ A Review of Performance Metrics in Designing of Protocols for Wireless Sensor Networks ”, Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 1, January 2017, pp. 716-730. ISSN 2249-7315, DOI : 10.5958/2249-7315.2016.01404.
- [41] Tamilvani P,Valluvan K R (2017), “Extended Phase Opposition Disposition Pulse Width Modulation Technique for Cascaded 27-level Inverter,” Journal of Computational and Theoretical Nanoscience, Volume 15, Number 2, February 2018, pp. 417-422(6) ISSN Number 1546-1955, Impact factor: 1.66 (**Annexure – I**)

- [42] Vanchinathan K and Dr Valluvan K R, “ A Metaheuristic Optimization Approach for Tuning of Fractional-Order PID Controller for Speed Control of Sensorless BLDC Motor”, Journal of Circuits, Systems, and Computers Vol. 27, No. 8 (July, 2018) 1850123 (19 pages), DOI: 10.1142/S0218126618501232, IF : 1.333
- [43] N. Jayanthi and K. R. Valluvan, “Hybrid routing algorithm for improving path selection in sustainable networks”, **Cluster Computing**, The Journal of Networks, Software Tools and Applications, ISSN 1386-7857.DOI 10.1007/s10586-018-1903-y, published online 13th February 2018.Vol.22, pp.323-334(2019) , Annexure I . Impact Factor:2.78
- [44] V.Gowri, Dr.K.R.Valluvan and Dr.V.Vijaya Chamundeeswari, “ A Novel Approach to Trace Accurate Skin Air Interface in Digital Mammography”, TAGA Journal, vol.14, pp-1914-1920, February 2018, ISSN :1748-0345.
- [45] S. Dhivya , N. Jayanthi and Dr. K. R. Valluvan, “Enhancement of Dual-Hop Layered LEACH Routing Protocol with Mobility in Wireless Sensor Networks”, International Journal of Scientific Engineering and Science, volume 2, Issue 3, pp. 46-50, 2018. ISSN (Online): 2456-736146.
- [46] Sruthi.M and Dr.K.R.Valluvan, “Patient Monitoring System using IoTs Connecting PHCS and District Hospitals”, ,IJSRD - International Journal for Scientific Research & Development| Vol. 6, Issue 01, 2018, pp- 259-260 ; ISSN (online): 2321-0613.
- [47] N. Jayanthi and K. R. Valluvan, “ Bio-inspired Optimization Routing Technique Using DNA Sequencing Algorithm for Wireless Sensor Networks”, Wireless Personal Communication,
- [48] Vanchinathan K and Valluvan K R, “ Tuning Of Fractional Order Proportional Integral Derivative Controller For Speed Control Of Sensorless BLDC Motor Using Artificial Bee Colony Optimization Technique”, Lecture Notes in Electrical Engineering 446 - Selected Proceedings of ICIEES'17, Springer, ISSN 1876-1100 ISSN 1876-1119 (electronic), 2018, pp -117-127. <https://doi.org/10.1007/978-981-10-4852-4>
- [49] S.Chitra and K.R.Valluvan, “A Smart IOT System Based Measurement Of Power Quality Indices And Its Evaluation For A Multilevel Inverter ”, Journal of Web Engineering, Vol. 17, No.6 (2018) 2579-2586
- [50] S.Chitra, K.R.Valluvan and P.Sathiamurthi, “ Fuzzy Based Quasi Z-Source Inverter For Power Control Using Nano Structured Pt(Platinum) Thin Film Temperature Sensors”, Sensor Letters, Vol.16, Number 11, November 2018, pp.827- 839, 2018
- [51] Gowri, V, Valluvan, KR & Vijaya Chamundeeswari, V, 2018,‘A Novel Approach to Trace Accurate Skin Air Interface in Digital Mammograms’, TAGA Journal of Graphic Technology, Volume 14, pp. 1914-1920, ISSN: 1748-0345.
- [52] Gowri, V, Valluvan, KR, Vijaya Chamundeeswari, V 2018,‘Automated Detection and Classification of Microcalcification Clusters with Enhanced Preprocessing and Fractal Analysis’, Asian Pacific Journal of Cancer Prevention, Volume 19, Issue 10, pp. 1914-1920, ISSN: 1513-7368.
- [53] S.Chitra, K.R.Valluvan, 2020, “ Design and implementation of cascaded H-Bridge multilevel inverter using FPGA with multiple carrier phase disposition modulation scheme ”, Microprocessors and Microsystems, 76 , July 2020 103108, Elsevier, ISSN: 0141-9331, Journal homepage: www.elsevier.com/locate/micpro
- [54] K. Vanchinathan, K. R. Valluvan, C. Gnanavel, C. Gokul, “ Design Methodology And Experimental Verification of Intelligent Speed Controllers For Sensorless Permanent Magnet

Brushless DC Motor”, Intl J. on Electrical Energy Systems, 17 June 2021,
<https://doi.org/10.1002/2050-7038.12991>

- [55] K.Vanchinathan, K.R. Valluvan, C.Gnanavel, C.Gokul, R.A.Renold, “ An Improved Incipient Whale Optimization Algorithm Based Robust Fault Detection And Diagnosis For Sensorless Brushless DC Motor Drive Under External Disturbances ”, Int Trans Electr Energy Syst. 2021 , Wiley
- [56] P. Keerthana, K.R.Valluvan, M.Vijayan, “ Measurement Of Harmonics With Adaline Using Half-Cycle Data ”, International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 05, May – 2022, DOI: 10.55041/IJSREM12697
- [57] K.Vanchinathan, K.R. Valluvan, C.Gnanavel, C.Gokul, (2022) “Numerical Simulation and Experimental Verification of Fractional-Order PI_L Controller for Solar PV Fed Sensorless Brushless DC Motor using Whale Optimization Algorithm ”, Electric Power Components and Systems, DOI: 10.1080/15325008. 2022.2135644
- [58] Vanchinathan K, Valluvan K.R., Gnanavel C.” Systematic Design of Multi-Objective Enhanced Genetic Algorithm Optimized Fractional Order PID Controller for Sensorless Brushless DC Motor Drive”, Circuit world, Emerald Publisher, pp. 479 – 492.
- [59] Vanchinathan K, Valluvan K R, Gokul C, Gnanavel C, Padhmanabhaiyappan S and Neelam Sanjeev Kumar, “ A review of integer order PID and fractional order PID controllers using optimization techniques for speed control of brushless DC motor drive”, International Journal of System Assurance Engineering and Management, Springer, 7th June 2023, <https://doi.org/10.1007/s13198-023-01952->
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6.2. Conference Publications: National / International

- [1] **K.R.Valluvan** , A.S.Kandasamy and A.M.Natarajan “A Site Survey of Harmonics Generated By Typical Loads In Industries and Homes” Intl conf. on Resource Utilisation and Intelligent Systems, INCRUIS-2006 held at Kongu Engineering College, Perundurai on 4th-6th, January, 2006.
- [2] **K.R.Valluvan** and D.Ganeshkumar, “Low cost PC based Harmonic Analyser” Intl conf. on Resource Utilisation and Intelligent Systems, INCRUIS-2006 held at Kongu Engineering College, Perundurai on 4th-6th, January, 2006.
- [3] **K.R.Valluvan** , Dr.A.M.Natarajan and Dr.A.S.Kandasamy “Advantages of Power Quality Analysis in Manufacturing Industries – Case Studies” International Conference on Total Engineering , Analysis & Manufacturing Technologies held at Bangalore on Oct.4-6, 2007.
- [4] **K.R.Valluvan**, A.S.Kandasamy and A.M.Natarajan “On-Line Measurement of Current Harmonics Using ADALINE Algorithm” International Conference on Resource Utilization and Intelligent Systems held at Kongu Engineering College on Jan. 3-5,2008.
- [5] **K.R.Valluvan**, A.Vetrivel, A.M.Natarajan and Jovitha Jerome “Minimisation of Harmonics Amplification Due to Resonance by Relocation of Capacitors Using ADALINE on a DSP” Intl conf. on Computing Communication and Networking, ICCCN 2008 held at Chettinad College of Engineering Technology, Karur on Dec.18-20, 2008.
- [6] RT Selvi and **KR Valluvan**, “ Development of low cost power parameter measuring system

using PIC” , Intl. Conf. On Control, Automation, Communication and Energy Conservation, . INCACEC, 2009

- [7] **K.R.Valluvan** and D.Kalimani, “Effective Use of LT PFC Capacitors in an Industry laden with Harmonic Currents – A case Study” 7th Intl. Seminar on Capacitors , CAPACIT 2010, held at IEEEEMA, India Mumbai India on 21-22, January, 2010.
- [8] **K.R.Valluvan**, A.Senthilkumar and P.Jayachandar “Embedded Controller for a Water Pumping System” 4th National Conference on Recent Trends in Electrical Technology held at Velalar College of Engineering & Technology, Erode, 17-3-12.
- [9] Naveen, N., A. Annalakshmi and **K.R. Valluvan**, “Trust node valuation and path reliability Technique for intrusion detection in MANET” Proceedings of the International Conference on Pattern Recognition, Informatics and Mobile Engineering, PRIME, Art. No. 6496716, pp: 468-472., 2013.
- [10] N.Naveen, A.Annalakshmi,K.R.Valluvan “Trust node valuation and path reliability technique for intrusion detection in MANET” Intl. conf. on Pattern Recognition Informatics and Mobile Engineering, Prime 2013 held at Periyar University on 21st-22nd February 2013.
- [11] A.Anna lakshmi, K.R.Valluvan, “Comparative Analysis of Performance for Generalized Intrusion Detection Systems and Fuzzy based Intrusion Detection System in MANET” National Conference on Latest Trends in Computing Environment, LATTICE '14 held at Velalar College Of Engineering And Technology, on 15th March 2014.
- [12] K. Vanchinathan and K.R. Valluvan, “Tuning of Fractional Order Proportional Integral Derivative Controller for Speed Control of Sensorless BLDC Motor using Artificial Bee Colony Optimization Technique”, Lecture Notes in Electrical Engineering, pp.117-127,Volume 446, Intelligent and Efficient Electrical Systems, Selected Proceedings of ICIEES', Springer ISSN 1876-1100 ISSN 1876-1119 (electronic)
- [13] K.R.Valluvan “IOT based Smart CommunicationnSystems For Accident Prevention ”, 7th Intl Conf on Engg. , Technology and Science, Muthayammal College of Engineering and Tech, 31-3-23

6.3. Co-authored conference papers:

S. No.	Title	Conferences / Seminars	Held At	Date
1.	Congestion Control Techniques in ATM Networks using Neural Networks	National Conference on Signals, Systems and Security (NCOS 2002)	PSG College of Technology, Coimbatore	01,02-03.2002
2.	Area Efficient VLSI Architecture for an adaptive predictor for VOCODER as a DSP Co Processor	National Conference on Modern Trends Electrical and Instrumentation Systems	GCT, Coimbatore	14.3.2002
3.	Design of Active Filter using Sliding Mode Control for Harmonic Suppression in FACT	National Conference on Modern aspects of FACTS and its applications	KCT, Coimbatore	29,30Aug 2003
4.	Design and Implementation of Digital FIR filter using FPGA	National Conference on Emerging Trends in Engineering Technology	Dr MGR Educational and Research Institute, Chennai	May 1-3, 2004

5.	Implementation of Advanced Microcontroller Bus Architecture in FPGA , <i>D.Kavitha and K.R. Valluvan</i>	National Conference on Emerging Trends in Engineering Technology	Dr MGR Educational and Research Institute, Chennai	May 3, 2004	1-
6.	Virtual Instrumentation Based Harmonic Analysis and Estimation of THD	National Conference on Recent Trends in Instrumentation Applications	National Engineering College, Kovilpatti,	23 – 24, Dec'04	
7.	Filtering of Low Amplitude Harmonic Content and THD Estimation Using Virtual Instrumentations Technique	National Conference on Power Engineering Practices and Energy Management	Thapar Institute of Engineering and Technology, Patiala,	28 – 29, Jan'05.	
8.	Harmonic Filter Using FPGA	2 nd National Conference on Modern Trends Electrical and Instrumentation Systems	GCT, Coimbatore	9,10.3.2005	
9.	Power Monitoring System	National Conference on VLSI, Embedded Systems, Signal Processing and Communication, VESCOM -2005	Kongu Engineering College, Perundurai	8 th April 2005.	
10.	Power Line Harmonic Distortion Meter Using An Embedded Controller	National conf. on Intelligent Integrated Control and Automation	Coimbatore Institute of Technology	Feb. 10-11' 2006.	
11.	Line Driver For Primary Multiplexer	National conf. on Intelligent Integrated Control and Automation	Coimbatore Institute of Technology,	Feb. 10-11, 2006.	
12.	Development of Ethernet Card Device Driver for ARM 9 in Embedded Linux	National Conference on Modern Trends in Electrical and Electronic Systems	Govt. College of Engineering , Salem	March 22 nd & 23 rd , 2006	
13.	Active filter for Minimising Current Harmonics Generated in Non-Linear Loads Using DSP.	National Conference on VLSI, Embedded Systems, Signal Processing and Communication, VESCOM -2007	Kongu Engineering College, Perundurai	April 2007	
14.	Brain Computer Interface for Paralyzed Patients to input phone Numbers	Nat. Conf. on Soft Computing Techniques in Process Control and Instrumentation	St. Peter's College of Engg., Chennai	Feb. 15-17, 2007, pp. 39-42	
15.	In-Shoe Data Acquisition System for Diabetic Patients	Nat. Conf. on Soft Computing Techniques in Process Control & Instrumentation	St. Peter's College of Engg., Chennai	Feb. 15-17, 2007, pp. 55-58.	
16.	Energy Meter for An Electrical System with Harmonics	4 th Nat. Conf. on Applications Of	Adhiyamaan College of	April 4-5, 2007	

		Emerging Technologies	Engineering, Hosur	
17.	Design of Microcontroller Interface for Audio-Codec		V.L.B Janakiammal College of Engineering & Technology	Mar 23 rd & 24 th , 2007
18.	Pulse width Modulation inverter using a Neural Network Controller	Recent trends In Electrical Engineering”, (RTEE-07)	K.S.R. College of Technology	28 th -29 th March 2007
19.	High Speed Signal Acquisition System for DSP	Nat. Conf ETICSE 2008	KSR CT	20-2-2008
20.	Data Acquisition Using FPGA	Nat. Conf ETICSE '08	KSR CT	20-2-2008
21.	Development of low cost power parameter measuring system using PIC	Intl. C. On Control, Automation, Communication and Energy Conservation, 2009	Kongu Engg. College	4-6 June 2009
22.	Power factor Improvement Using Boost Converter topology	Nat. Conf. on Trends in Electronics, Instrumentation, Embedded System and Automation	Karunya University	27 th March 2010
23.	A Simplified Algorithm for Shunt Active Filter Based on PIC Microcontroller	2 nd Nat. Conf. on Control, Communication, Signal Processing & VLSI Techniques	The Oxford College of Engineering, Bangalore	21,22 April 2010
24.	Development Of Animation Software For Classroom Teaching Of Power Quality Using Labview <i>Keerthana Suganthi.V, Jacob Samuel. J, Dr.K.R.Valluvan</i>	4 th Nat.Conf. on Recent Trends in Electrical Technology	Velalar College of Engg. & Technology	17-3-12
25.	Design And Development Of Data Acquisition System For Power System Monitoring Using Pic Microcontroller <i>Muthumohanraj.N. , K.R.Valluvan</i>	4 th Nat.Conf. on Recent Trends in Electrical Technology	Velalar College of Engg. & Technology	17-3-12
26.	A review of Performance Metrics in Wireless Sensor Networks, <i>N.Jayanthi, K.R.Valluvan</i>	2 nd NatConf. On Smart Systems	EBET	17-3-12
27.	Identification of Sags and Swells Using PIC Microcontroller <i>T.Sanathanayaki, K.R.Valluvan</i>	5 th National Conf. on EVENTS '13	VCET	16-3-13
28.	VLSI Implementation of Power Efficient Reconfigurable Carry Save Adder <i>L.Gopalakrishnan, K.R.Valluvan</i>	5 th National Conf. on EVENTS '13	VCET	16-3-13
29.	Area Efficient Fast Parallel FIR Digital Filters Based on Fast FIR Algorithm <i>L.Gopalakrishnan, K.R.Valluvan</i>	4 th Nat. conf. on Control and Power Engg., Hindustan College of Engg and Tech., Coimbatore		

30.	Trust node valuation and path reliability technique for intrusion detection in MANET <i>Naveen, N., Annalakshmi, A., Valluvan, K.R.</i>	International Conference , 21-22 Feb. 2013, pp. 468 – 472		
31.	Monitoring of Hazardous Gases in Process Industries Through Internet , <i>P.Ragavi, Dr.K.R. Valluvan</i>	National Conference on Wireless Communication Systems '16 ISBN NO. 978-93-85100-27-7	MITS	27, 28 - 1-16
32.	Low cost Harmonic Measurement Using Arduino Uno <i>J.Sruthi and K.R.Valluvan</i>	11 th NatConf on Trends in Engineering Applications, NCTEA '19	VCET	2-3-19
33.	Harmonic Measurement and Frequency Analysis <i>J.Sruthi and K.R.Valluvan</i>	Intl C. on Information Sciences and Renewable Ener3gy Sources	Selvam College of Technology	7,8 -3-19
34.	Measurement of Harmonics with ADALINE using Half cycle Data P.Keerthana, K. R. Valluvan	Conf on Trends in Engg, Applications NCTEA'22	VCET	6-5-22

6.4. Patents / copyrights

6.4.a. Patents

S No	Applicant(s)	Title of the invention	Date of filing	Date of Publication	Patent No
1	P.Tamilvani, K.R.Valluvan	Harmonics minimization by Cascaded Multilevel Inverter	01-11-2018	09-11-18	Application No.201841041373 Applied
2	Dr.S.Chitra Dr.K.R.Valluvan Dr.P. Sathyamurthi	Cloud based Data Acquisition in Multi-Level Inverters for Electric Power Quality Analysis	31-12-2020	08-01-21	Application No 202041057391

6.4.b. Copyrights

No	Title of the Copyright	Applicant(s)	Date of Dispatch	Regn. No.
1.	A Metric Balancing Policy design For Wireless Sensor Networks Deployment Using Simulation Software	N.Jayanthi, Dr.K.R.Valluvan	13.02.18	SW-10845 /2018
2	Modified Genetic Algorithm Optimized Fractional order PID Controller For Sensorless Speed Control of BLDC motors Using MATLAB software	Dr.K.R.Valluvan	26.02.18	SW-11398 /2018
3	Multiplication of binary Numbers using hybrid Vedic Multiplier using Nikhilam sutra and Karatsuba Algorithm with Reduction in N-1bits	M.NishaAngeline Dr.S.K.Manikandan Dr.K.R.Valluvan K.Rajaram	03.04.18	SW-10677 /2018
4	NOR based Architecture for Data Matching encoded with Error Correcting	M.Parimaladevi G.Boopathiraja	30.9.20	SW-13738/2020

Codes in Cache memory	V.Gowrishankar Dr.P.Brindha T.Sathya Dr.K.R.Valluvan M.Vijayan		
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7. a. Funded Research

Principal Investigator of an AICTE-RPS funded research titled **“An Investigation Of Thermal Resistivities Of Soil Profile For The Installation Of UG LT/HT Cables And Oil / Gas Pipelines In Smart Cities”** with an AICTE Grant of ₹ 3,74,509/= ; project duration -10-01-2020 to 10-02-2023 (3 years)

7.b.Sponsored Research activities:

S. No.	Year	Organisation	Project Title	Amount Received
1	1997-98	Tamilnadu State Council for Science and Technology (TNSCST) Student Project Scheme	AI Based Soil Analyser	Rs.5,000
2	1998-99		Fuel Optimiser for Boilers	Rs.5,000
3	2000-01		Energy Efficient variable Drive for Industrial AC motors	Rs.5,000
7	2001-02		Low cost starter / protector for Agricultural pump set motors	Rs.5,000
8	2006-07	Institution of Engineers	Active Filter for Minimising Current Harmonics in Non-linear Loads	Rs.10,000
9	2008-09	NLC-KEC Collaboration	Power Factor Measurement	Rs.20,000
10	2011-12	TNSCST	Low Cost Solar Powered Micropump For Rural and Small Houses	Rs.6,000
11	2019-20	TNSCST	Low Cost Sanitary Napkin incinerator for rural and semi urban Educational Institutions	₹7,500

8. Consultancy activities:

S. No	Yr	Name Of The Industry	Details Of Consultancy
1.	2003-04	Karthikeya Papers & Boards Ltd, Sathyamangalam	Energy Audit
2.		Mehala Carona Textiles (P) Ltd	Energy Audit
3.		Amsam Spinning Mills (P) Ltd, Punjai Puliampatti	Energy Audit
4.		ELGI Equipments, Coimbatore	Lightning Protection to Radio tower, telecommunication and data circuits and averting failures of modems, servers, EPABX and computers
5.		Bimetal Bearings Ltd, Coimbatore	Power Quality Analysis and Harmonic Study
6.		Ramakrishna Mission Vidyalaya, Coimbatore	Energy Study
7.		Sakthi Sugars Ltd, Sakthinagar, Erode (Dt)	Power Quality Analysis and Harmonic Study
8.		20	Unity Electrosystems (P), Coimbatore

9.		Mothi Spinner Ltd, Tiruchengode	Energy Audit
10.		Dharmapuri Paper & Boards Ltd, Dharmapuri	Energy Audit
11.		Venbro Polymers, Erode	Measurement of energy parameters
12.		Shakthi Knitting Ltd, Perundurai	Energy Audit
13.		R. G. Sundar & Co., Erode	Energy Study
14.		Kovai Maruthi Paper & Boards Ltd, Namakkal	Power Quality Analysis and Harmonics Study
15.		PePe Farms, Namakkal	Water Treatment and Energy Conservation Methods
16.		Venbro Polymers , Erode	Power Quality Study
17.		SISCOL, Mettur	Power Quality Study
18.		City Mills (P) Ltd. Erode	Power Quality Assurance
19.	2005-06	TNEB	Harmonics Studies
20.		Maharaja Sathyam Industries (P) Ltd.	Energy Audit
21.		Sri Ratna Lakshmi Spinning Mills	Energy Audit
22.	06-07	Subburaj Textile Mills, Tirunelveli	Energy Audit
23.		Neyveli Lignite Corporation	NLC-KEC Collaborative Project – Harmonic Study at Thermal Station –I, Mines – I and NLC Township
24.		Sun Plastics, PG Palayam	Energy Studies
25.		Salem District Co-operative Sugar Mills, Mohanur	Design of TIP and Loading point sugar bag Counters
26.	2007-08	Poppys Knitwear (P) Ltd., Tiruppur	Insulation Integrity Check
27.		Poppys Knitwear (P) Ltd., Netaji Apparel Park – Plot 1 & Plot 26	Insulation Integrity Check
28.		Prism Textile Processing Mills (P) Ltd	Earth Resistance Measurement
29.	2008-09	SKM Egg products India	Sump Automation through GSM network
30.		SKM Egg products India	Energy Audit
31.		Neyveli Lignite Corporation	NLC-KEC Collaborative Project – PF Measurement in Mines II
32.		Siemens @ NLC, Neyveli	Harmonics Measurement in 5 Drive Head Stations at low loads in Mines II
33.		Siemens @ NLC, Neyveli	Harmonics Measurement in 5 Drive Head Stations at full load in Mines II
34.	2008-09	Hashprompt Logistics Management India (P) Ltd, Erode	Classification of a Product
35.		Neyveli Lignite Corporation	Studies on PF improvement in mines area
36.	2009-10	Mahindra Water Utilities, Tiruppur	Measurement of Harmonics in pumping station.
37.	2014-15	Robert Bosch Engg. & Business Solutions, Coimbatore	Training on Circuit Theory and OpAmp interfacing

38.		Design and Supply of relevant Technical details and Drawings for an Automatic Temperature and Humidity Controller	Thumba Agrotechnologies, Palani
39.	2016-17	Consultancy for Improving Earthing System in a wind Electric Generation Farm.	Intech Power Kovai (P) Ltd, Dharapuram
40.	2020-21	Framing and Submission of Draft State Level Regulations For Current Harmonics Control in grid connected systems	Tamilnadu Electricity Regulatory Commission
41.	2021-22	Framing and Submission of Draft State Level Regulations For Current Harmonics Control in Grid connected WEG, SPV Farms, Bagasse and Biomass based Generators	Tamilnadu Electricity Regulatory Commission
42.	2021-22	Measurement of Inrush current in Municipality Water Treatment Plant for validation of Soft starters	Gobichettipalayam Municipal Administration
43.	2022-23	Measurement of Harmonics	Ferrous Alloyes, Coimbatore
44.		Measurement of Harmonics	Sri JayaMaaruthi Yarn India Pvt. Ltd

9. a) Resource Person / Technical Lectures delivered:

Sl. No	Date	Venue / Target Audience	Title
1	23-4-02	Institution of Engineers, Salem Local center, SAIL- SSP	The World of Internet
2	27-7-03	Kumaraguru College of Technology, Coimbatore	Energy Audit- A Case Study
3	3-12-04	STTP on Fuzzy-Neural Networks, Kongu Engg College	1. Fuzzy Mindset 2. Fuzzy in Real Life
4	20-6-05	TamilNadu Electricity Board, Erode Distribution Circle	Measurement of Harmonics in Different Industries
5	8-9-05	Tamilnadu Electricity Regulatory Commission, Chennai	Harmonics – Sources, Effects, Standards, Mitigation and Levels Measured in industries
6	21-7-06	AICTE sponsored National Seminar on “Advanced Power Converters For Special Electrical Drives” , EEE Dept, KEC	Harmonics in the Power Systems due to Electrical Drives and Mitigating Techniques
7	18-11-06	CSIR sponsored Seminar on Neuro-Fuzzy Modeling to Process Control, EIE Dept., KEC	Real Life Applications of Neuro-Fuzzy Techniques
8	4-6-07	AICTE sponsored STPP on Custom Computing	ASIC Design Flow
9	14-2-08	CSIR sponsored National Seminar on Health Monitoring of Structures	Smart Buildings

10	12-3-08	Institution of Engineers, NLC & Scientists and Engineers Association, NLC	Harmonics-An Electrical Pollutant: Sources, Effects and Remedy
11	5-5-08	AICTE-ISTE STTP on Soft Computing Techniques for Power Quality Improvement at KEC	Soft Computing Techniques for Power Quality Improvement – An overview
12	7-5-08	AICTE-ISTE STTP on Soft Computing Techniques for Power Quality Improvement at KEC	Fuzzy mindset
13	7-5-08	AICTE-ISTE STTP on Soft Computing Techniques for Power Quality Improvement at KEC	Implementation of ANN on a DSP
14	14-11-08	Workshop on Digital Variable Speed Drives at EEE, KEC	VSDs in Electrical Energy Management
15	07-12-09	Seminar on Industrial Automation Using PLCs and DCS, Dept. of EIE, KEC	Selection of PLC and Interfacing Considerations
16	26-08-10	MoEF sponsored Nat. sem. On Eco Friendly Automated Vehicles Powering the Green Revolution, Dept. of Mechatronics, KSRCT	Energy Conservation and Its Implications on Environment
17	9-9-10	Paavai Engineering College	Advanced Computer Architecture
18	27-9-10	Builders Association of India, Erode Centre	Energy Conservation Act and Energy Conservation Building Code
19	21-11-10	Builder's Voice, Tiruchy Technical Seminar-2010	Energy Efficient Buildings
20	5-3-11	Nat. conf. on Recent Trends and Advances in Information Technology, KSR College of Technology	Fuzzy mindset
21	13-07-11	Inaugural Function IT Association, KSR College of Technology	Recent Trends in Computer Architecture
22	4-8-11	National Conf. on Recent Trends in Electrical Engg. At IRTT	Power Quality and Harmonics
23	15-9-11	National Level workshop at Sri Ramanathan College of Engg.	Career Perspectives for VLSI Engineers
24	16-2-12	Erode Sengunthar Engg. College	Measurement of PQ Parameters Using DSP Instrument
25	27-2-12	Francis Xavier Engg. College	IEEE Guest Lecture on FL and its Applications in Medicine
26	5-3-12	Velalar College For Women, Dept. of Physics	Energy Conservation And Environmental Effects
27	15-5-13	AICTE sponsored FDP on "Real Time Applications in Embedded Systems", Nandha Engineering College	Embedded Controller for a Water Pumping System – A case Study
28	14-6-13	AICTE sponsored FDP on Recent Trends in Automotive Electronics, IRTT	Automotive Electronics
29	1-8-13	Assn. of ECE, JayShriram Group of Institutions	Energy Conservation By EC Engineers

30	3-5-10-13	SaintGits Inst. Mgt, Kottayam	Resource Person the 3Day workshop for NBA Resource Persons / Evaluators
31	5-10-13	Assn. of PG –MTech (Power Systems) , Saintgits College of Engg , Kottayam	Power Quality –Issues, Measurements and Standards from the User and Utility Purview
32	11-10-13	AICTE sponsored Nat. Seminar on Emerging Trends in Embedded Systems and Applications at Excel College of Technology	Embedded System – A case Study
33	23-11-13	VCET- Faculty Orientation Programme	Handling of Laboratory classes Effectively – Class room etiquettes : Some Do’s and Don’ts
34	28-12-13	National Seminar on Avenues of Research	E Tools For Research
35	1-2-14	IETE sponsored workshop on Algorithmic Approach to Image and Video processing	Research Issues in Image & Video Processing
36	5-3-14	Bannari Amman Institute of Technology	1 Day NBA workshop on “ Training of Evaluators / Resource Persons on Outcome Based Accreditation”
37	14,15,16-3-14	Bannari Amman Institute of Technology	3 Day NBA workshop on “ Training of Evaluators / Resource Persons on Outcome Based Accreditation”
38			
39	12-6-14	VCET- Faculty Empowerment Programme	Handling of Laboratory classes Effectively – Class room etiquettes : Some Do’s and Don’ts
40	16-6-14	Ranganathan Engineering College, Coimbatore	Outcome Based Accreditation
41	18-6-14	VCET- Faculty Orientation Programme	Class room Etiquettes : Some Dos and Donts
42	20-6-14	VCET-AU approved FDTP- Analog and Digital Communication	Noise
43	21-6-14	Erode Sengunthar Engg. College - FDP on Embedded Systems	8085,8051 and Interfacing Techniques
44	25-6-14	Inaugural Function of Cyber Crews -Association of Computer Science , Kongu Arts & Science College .	Evolution of Computers - Charles to Chitti
45	23-9-14	IETE sponsored work shop in Avenues of Research in ICE Domain	Research Avenues in Soft Computing and Power Quality
46	26-11-14	5-Day FDP on Microprocessor and Microcontroller, ECE, VCET, 24-28-11-12	Memory and I/O interfacing with 8086
47	29-11-14	One day Research Seminar on “Enhancing Research Potential In CSE&IT”, CSE&IT, VCET	Research Resources
48	5-12-14	2 Day Nat. workshop “ A Step For NBA Accreditation ” , SNS College of Tech., Coimbatore	Chief Guest for Inauguration; “ Part B- cri I- Vision, Mission, PEOs”
49	13-12-14	7Day AU approved FDTP – Probability and Random	Engineering Applications of Auto , Cross correlation and Spectral Density

		Processes - VCET	
50	19-12-14	7Day AU Approved FDP – Electronic Circuits II	Wave Shaping and Multivibrator Circuits
51	28-1-15	1Day workshop @ VCET on “PG Project- An overview”	Abstract Writing , Objectives and Project Report Formatting
52	29-1-15	1 Day Workshop on VLSI Design Tools @ PSNA College of Technology, Dindigul	Introduction to VLSI Design Tools
53	17-6-15	5-Day ISTE sponsored FDTP on Digital Principles & Design Using Verilog HDL, Dept. of ECE, VCET	TTL and CMOS Characteristics
54	16-6-15	AU approved 1Week FDTP on EE 6302- Electromagnetic Theory, Dept. of EEE, VCET	Applications of Electromagnetic Waves
55	17-6-15	Faculty Orientation Programme, VCET	Class room Etiquettes : Some Dos and Don'ts
56	22-7-15	Faculty Lecture Series, VCET	Energy Conservation @ Homes and Offices
57	19-8-15	1 Day workshop on “Project & Research Work – An overview”	Writing Abstract, Objectives , Introduction and Project Report Preparation
58	14-11-15	IETE sponsored 1Day workshop on Spectrum Analysers and Digital Storage Oscilloscopes	Hands on training on DSOs & Spectrum Analyser to ECE & EEE Faculty.
59	17-6-15	IETE sponsored FDTP on TLW	Overview of TLW
60	17-12-15	FDP on Embedded Systems	RTOS Based ES
61	24-8-16	1Day workshop-PG Project& Research work-An overview-VCET	Writing Abstract, Objectives, Introduction and Project Report Preparation
62	10-9-16	IEEE student Members Meet - EMBS	Energy Conservation and Its Effect on Environment
63	25-11-16	AU approved 7day FDTP on EC 6019-Data Converters, Sengunthar Engg. College, Tiruchengode	Unit 1- Sample and Hold circuits
64	3-12-16	FDTP on Medical Electronics, Dept. of BME, VCET	Measurements Of Non-Electrical Parameters
65	3-12-16	2 Day Hands on Training on Applications of Finite Element Analysis, Dept. of Mech Engg., VCET	MATLAB for Mechanical Engineers
66	05-12-16	7-Day AU FDTP on Wireless Networks, Dept. of ECE	IEEE802.11
67	30-06-17	CSIR Sponsored Seminar , Optimisation of Industrial Processes, PA College of Engg. & Technology, Pollachi	Fuzzy Optimisation
68	16-02-17	ICMR Sponsored Seminar on Nanorobots: An Ultimate Transition in Medical Era For Guarding Against Infections, PA College of Engg. & Technology, Pollachi	Evolution of Nanobots-From Feynman's Days.
69	01-02-18	TNSCST sponsored DST Supported An awareness Programme for Energy Conservation	Selection, Maintenance and Simple Servicing of Domestic Electrical Appliances

70	15-08-18	SHRISHTI 2018 Science Exhibition at Indian Public School Erode	Guest Judge
71	01-12-18	14Days-AU FDTP on CS-8491 Computer Architecture at SNS CE, Coimbatore	Basics of Computer Architecture
71	27-12-18	NAAC sponsored 2Day seminar “ Innovative Strategies to Enhance Teaching Learning Process” , PA College of Technology, Pollachi.	Inauguration Speech and a tech. session on “ Innovative Strategies to Enhance Teaching Learning Process ”
72	22-5-19	AICTE sponsored STTP on “ Professional Development of Educators in Teaching Pedagogy- A learning & Research Design ” , Nandha Engg. College, Perundurai.	“Teaching pedagogy – A student centric approach”
73	01-07-19	AICTE Sponsored STTP on Pedagogy on Emotional Intelligence Skills For Career Growth And Success , Dept. of Mgt. Studies, VCET	“Emotional Intelligence in Today’s Workplace”
74	28-11-19	AICTE sponsored STTP on Design and Development of Engg. Applications Using FOSS	Arduino Platform – Software and Hardware
75	30-11-19	Anna University sponsored FDTP on EE8451 – Linear Integrated Circuits and Applications, Bannari Amman Institute of Technology	Fundamentals of Opamps
76	3-12-19	AICTE sponsored FDP on Recent Trends in Driverless Electric Vehicle Technologies , IRTT	Driverless Cars- A conceptual Overview
77	Jan., 20	VCET Internal Hackathon for Smart India Hackathon 2020	Internal Jury
78	1-8-20	AICTE Margdarshan – Faculty Development Programme Rajalakshmi Engineering College “Guided Walkthrough to NBA – SAR”	Institutional Governance & Financial Resources
79	20-8-20	AICTE sponsored 1 week online STTP on Effective and Innovative Teaching, Best Practices and Learning Strategies	A Paradigm Shift In Pedagogy With Contemporary Students’ Mileau
80	23-9-20	AICTE sponsored 1 week online STTP on Effective and Innovative Teaching, Best Practices and Learning Strategies	A Paradigm Shift In Pedagogy With Contemporary Students’ Milieu – After COVID 19

81	15-10-20	AICTE - AQIS sponsored STTP on "Integration of Renewable Energy and Big Data Analytics of Smart Grid, EEE Dept, PA College of Technology.	Power Quality Issues in Integration of Renewable Energy Sources to Utility Grids
82	21-10-20	AICTE sponsored 1 week online STTP on Effective and Innovative Teaching, Best Practices and Learning Strategies	A Paradigm Shift In Pedagogy With Contemporary Students' Milieu – National education Policy 2020
83	04-11-20	AICTE - AQIS sponsored STTP on "Integration of Renewable Energy and Big Data Analytics of Smart Grid, EEE Dept, PA College of Technology	Power Quality Issues in Integration of Renewable Energy Sources to Utility Grids
84	18-11-20	AICTE - AQIS sponsored STTP on "Integration of Renewable Energy and Big Data Analytics of Smart Grid, EEE Dept. PA College of Technology.	Power Quality Issues in Integration of Renewable Energy Sources to Utility Grids
85	23-12-20	SASTRA Deemed to be University, FDP under Margdarshan Scheme	Traditional And Alternate Assessment For Improving The Average Performance Of Students
86	17-11-21	AICTE – ATAL FDP on "Renewable Energy Integration using AI and Big Data Analytics", EEE Dept. PA College of Technology.	Power Quality Issues in Integration of Renewable Energy Sources to Utility Grids
87	26-09-22	Evaluation and Assessment Using Bloom's Taxonomy at IQAC, VET IAS	
88	14-12-22	VCET-Green Club-Energy Conservation Day	Energy Conservation and its implications
89	18-12-23	TANGEDCO and VCET	Energy Conservation in Homes and Scools/ Colleges
90	08-01-23	CSIR sponsored 1 Day Seminar on V2G Technology for Sustainable Development	PQ issues in EV charging

9.b. Technical Sessions Chaired:

Sl. No	Date	Venue	Name of the Conference
1	10-3-12	Al-Ameen Engg. College	1 st National Conf. on Advances in Computing, Control, Communication, Automation and Structural Engg.
2	21-3-14	Maharaja College of Engg. & Tech	Nat. Conf., on Recent Trends in Information, Communication and Power Systems

9.c. Member of Advisory Committee in :

Sl. No	Date	Venue	Name of the Conference

1	10-3-12	Al-Ameen Engg. College	1 st National Conf. on Advances in Computing ,Control, Communication, Automation and Structural Engg.
2	20-3-14	Sasurie	
3	29-3-14	Al-Ameen Engg. College	2 nd National Conf. on Advances in Computing, Control, Communication, Automation and Structural Engg.
4	28-3-20	Al-Ameen Engg. College	9 th National Conf. on Advanced Sciences and Engineering Research

9.d. Reviewership

1	McGraw Hill, one chapter of Electronic Devices and Circuits, 4e
2	Springer, “ A Virtual Instrumentation based Analysis – An Experimental Approach ”
3	Conf - ICAST 2018 - Track 4 Recent Advances in Electrical and Computer Engineering
4	Conf - ICAST 2020 - Track 4 Recent Advances in Electrical and Computer Engineering
5	Intl J of Microprocessors and Microsystems
6	Intl J of Expert Systems with Applications

9.e. Online Lectures (through You tube)\

S,No	Date	Title	Organiser	Link
1	28-02-21	Smart Engineers Make the world Smarter	Pantech Solutions	

10. Membership of Scientific and Professional Societies:

- Life Member, ISTE (LM 27847, since 5-11-99)
- IEEE Member No: 92135852 (Since Nov. 2011)
- FELLOW of The Institution of Engineers (India) – F1207063 – since 16-2-16

11. Honours and Awards:

1. BEST TEACHER AWARD in EEE dept. (KEC) for the year 1997-98
2. BEST TEACHER AWARD in EEE dept. (KEC) for the year 1999-00
3. BEST TEACHER AWARD in EEE dept. (KEC) for the year 2001-02
4. Honored with Shawl and Book on Engineers’ Day by Secretary, VCET on 15-9-14.
5. For Best Project Guidance : awarded by The Institution of Engineers(India) Students’ Chapter – Tamilnadu State Centre – 7-3-05
6. **Certificate of Achievement- Best Engineer Award** in Electronics and Telecommunication Engg. Division by Institution of Engineers (India) Erode Local Centre on 18-10-19.

12. No. of Ph.D.s guided: 10 = 9 +1 (as Joint supervisor) .

S. No,	Scholar	Register No	Completion	viva voce on	Title of the thesis
1	G.Rajesh Kumar	71030921013	Apr,2017	13-04-17	An enhanced Optimization Technique for Wireless Networks with Improved Quality of Service Using Trust Based Adaptive Acknowledgement Scheme
2	G.Sudha	L1090043059	Dec,2017	11-12-17	Power Quality Assessment and Fault Diagnosis of Transmission Lines Using Rogowski Coils
3	E.Haripriya	71130632016	Nov,2018	16-11-18	An Investigation on Improvement in Performance of Delay Tolerant Networks Using Multicasting Techniques
4	A.Anna Lakshmi	11130632002	Aug,2019	30-08-19	Cluster Based Communication With Secured

					Intrusion Detection and Prevention Techniques In MANETs
5	P.Tamilvani	11110432033	Sep, 2019	20-09-19	Modeling And Analysis of 27-Level cascaded Multilevel Inverter Using Pulse Width Modulation Technique
6	N.Jayanthi,	11230632011	Nov,2019	27-11-19	Certain Studies on Intelligent Hybrid Approach to Improve the Performance of Wireless Sensor Networks
7	K.Vanchinathan	1313369124	Dec,2019	24-12-19	Studies on Performance Improvement of Sensorless Speed Control of BLDC motors Using Fractional order PID Controller
8	V.Gowri,	11160632009	Jan, 2020	10.01.20	Improvement in Image Segmentation Analysis In Digital Mammography
9	S.Chitra	71130432002	Nov,2020	09-11-20	Internet of Things Based Monitoring of Total Harmonic Distortion in A
10	L.M.Palanivelu (As Joint Supervisor)	4083053120	Aug,2014	28-08-14	Certain Improvements in Image Compression For Multi-Application Smart Card Storage and Retrieval

13. No. of M.E. / M. Tech projects guided: 49

14. List of STTPs / FDPs / Workshops / Seminars / Conferences organized :

S No	Programme	Duration	Target Audience	Conducted By
1.	AICTE - STTP - Recent Trends in Electrical Systems– Metering & Protection	2 weeks (26.6. 02 to 18.7.02)	Faculty of Degree level Institutions	Dept. of EEE, KEC
2.	Operation & Maintenance of Distribution Transformer	1 day, 15-12-2002	Practicing Engineers of Industry	Dept. of EEE, KEC
3.	Operation & Maintenance of Distribution Transformer	1 day, 23-1-2003	Engineers of TNEB	Dept. of EEE, KEC
4.	Operation & Maintenance of Distribution Transformer	1 day, 6-7-2003	Practicing Engineers of Industry	Dept. of EEE, KEC
5.	Operation & Maintenance of Distribution Transformer	1 day , 26-7-2003	Engineers of TNEB	Dept. of EEE, KEC
6.	Operation & Maintenance of Distribution Transformer	1 day, 17-7-2004	Engineers of TNEB	Dept. of EEE, KEC
7.	AICTE-ISTE STTP on Soft Computing Techniques for Power Quality Improvement	5 days, 5-5-08 to 9-5-08	Faculty of Degree level Institutions	Dept. of ECE(PG) and IT,KEC
8.	4 th Nat. Conf. on Recent Trends in Electrical Technology	17-3-12	Nat. Conf	VCET
9.	5 th Nat. Conf. on EVENTS	xx-3-13	Nat. Conf	VCET
10.	Workshop on Mathematical Transforms, Operators and MATLAB Tools in Image Processing		Faculty, PG and UG students	VCET
11.	6 th Nat. Conf. on EVENTS	15-3-14	Nat. Conf	VCET
12.	7 th Nat. Conf. on EVENTS		Nat. Conf	VCET
13.	Anna University 7- Day FDTP on EC 6602-Antenna and Wave Propagation	16-12-15 to 22-12-15	FDTP	AU, VCET
14.	TNSCST sponsored 3DayAwareness Creation Program for Women on “Selection, Maintenance and Simple Servicing of Domestic Electrical Appliances For Energy Conservation and Reducing Electricity Bills	01-02-18 to 03-02-18	Hands-on Training	TNSCST, VCET

15. List of STTPs / FDPs / Workshops / Seminars / Conferences participated:

S No	Programme	Duration	Held At	Conducted By
1.	Prof .S. Palanichamy Felicitation Seminar on Recent Trends In Electrical Engineering	21-6-97.	PSG College of Technology	PSG College of Technology
2.	Workshop On Entrepreneurship	24-2-2000	KEC	KEC
3.	Zeal Leadership	Completed on 5-2-1999	KEC	KEC
4.	MIPOWER -Power System Analysis Software		ERDC, Bangalore	KEC
5.	3 rd International Conference TIMA 2001, Trends in Industrial Measurements & Automation	17,18 & 19, August 2001	CSIR complex, Chennai	Anna University & Instrument Society of America
6.	Java Core Learning Suite	24-9-2001 to 11-10-2001	RCS Education Systems, Bangalore	Sun Micro Systems - AICTE
7.	Winter School on "VLSI Design and Embedded Systems"	29-10-2001 to 11-11-2001	KEC	AICTE
8.	ISO Awareness Programme	2-11-2001	KEC	Zandig Consultants, Bangalore
9.	CII - Techno Education Summit	29,30-1-2002	Chennai	AICTE & CII, Southern Region
10.	Short Term Course on DSP and Embedded Systems	18-03-2002 to 22-03-2002	PSG College of Technology, Coimbatore	Organised under NETWORK project
11.	Curriculum Development Workshop on Advanced Computer Architecture	3,4,5-10-2005	Anna University	Intel India
12.	UGC sponsored Refresher course on "Simulation Tools for Electrical Engineering Applications"	05-12-2005	24-12-2005	UGC-Academic Staff College, JNTU Hyderabad
13.	International Conference on Total Engineering , Analysis & Manufacturing Technologies, 2007	Oct.4, 6, 2007	Indian Institute Of Science, Bangalore	TEAMTECH
14.	Embedded Systems Conference	Oct 5 th , 2007	NIMHANS CC, Bangalore	ESC, India
15.	Academic & Administrative Workshop	5-12-07	Anna University , Coimbatore	Anna University , Cbe
16.	Entrepreneur Curriculum Development	11 to 13-	Intel Technology	DST,UC

		12-07	India , Bangalore	Berkeley
17.	Training Workshop for Academic Auditors	27,28-01-09	Kumaraguru College of Technology, Cbe	Anna University, Cbe
18.	Short Term Course on Power Quality and Energy Management Perspectives in Indian Industries	24,25-7-09	Coimbatore Institute of Technology	CIT, CDAC-Thiruvananthapuram under NaMPET
19.	FDP on Developing Managerial Skills		Kongu Engineering College	HRD Cell, Kongu Engg. College
20.	Conf on Education For Sustainable Development	13-3-2011	CII, Chennai	Hotel Taj Coromandel, Chennai
21.	Infosys Campus Connect Conclave	23-12-11	Infosys, Bangalore	Infosys
22.	4 th Nat. Conf. on Recent Trends in Electrical Technology	17-3-12	VCET	VCET
23.	3_Day workshop on “ Training of Evaluators / Resource Persons on Outcome Based Accreditation”	9-11 May 2013	NBA and BIT	Bannari Amman Inst of Tech
24.	1 st National Higher Education Conclave	29,30-11-13	Hotel Le Meridian , Coimbatore	CII Coimbatore
25.	Spoken Tutorial on SciLab	29-4-14	VCET	IIT Bombay
26.	Workshop on Intellectual Property Rights & innovation	6-11-15	VCET	VCET & Anna Univ-Centre For Intellectual Property Rights
27.	2 nd National Higher Education Conclave	18,19-11-15	Hotel Le Meridian , Coimbatore	CII Coimbatore
28.	Keysight Educational Safari-1 Day workshop	27-6-17	VCET	Sinetech Tecnology
29.	ICMR sponsored 2-Day National Seminar on Prediagnosis of Tumor and Lung Cancer	23,24-2-18	VCET	Dept. of ECE, VCET
30.	CSIR sponsored 1 day Seminar on Dynamical Systems and Differential Equations	9-8-19	VCET	Dept. of Mathematics, VCET
31.	AICTE Online Orientation Trg Pgm for Mentors	7to11-02-2022	National Initiative for Technical Teachers Training	NITTTR
32.	VCET-ECE	13-12-23	Empowering Educators: Modern Approach to Teaching AI and Electronics	

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(K.R.Valluvan)