

## BIO DATA



Name : Mr.L.K.Balaji Vignesh

Designation : Assistant Professor

Department : Electronics and Communication Engineering

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Google Scholar link: <https://scholar.google.com/citations?user=zu8NIPIAAAAJ&hl=en>

### 1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electronics and Communication Engineering	PET Engineering College, Vallioor	2013
M.E	Communication Systems	Mepco Schlenk Engineering College (Autonomous), Sivakasi	2015
Ph.D	Antenna Design	Anna University, Chennai (Velammal College of Engineering and Technology, Madurai)	Pursuing

### 2. Professional/ Industry Experience

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Assistant Professor	Ramco Institute of Technology, Rajapalayam	02.11.2020	Till Date
2	Assistant Professor	AAA College of Engineering and Technology, Sivakasi	18.06.2015	27.10.2020

### 3. Research Interest: Antenna Design

#### 4. Publications

##### 4.1 JOURNAL PUBLICATIONS

- Balaji Vignesh L K, Sivakumar P, Shanmugaraja C, Aruna Devi P, Revathi T (2019)**, "Design of E-Shaped Microstrip Patch Antenna for S-band Applications", Journal of Electronic Design Engineering (MAT Journals), Vol.5, Issue 2, pp. 11-12, DOI: <https://doi.org/10.5281/zenodo.3333579>
- Balaji Vignesh L K, Chandralekha R (2019)**, "Implementation of Health Monitoring and Movement of Handicap Vehicle using PIC Microcontroller", International Research Journal of Engineering and Technology, Vol.6, Issue 6, pp. 11-12, ISSN No. 2395-0056.

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3. **Balaji Vignesh L K, Kavitha K (2018)**, “A Survey on Fractal Antenna Design”, International Journal of Pure and Applied Mathematics, Vol.120, Issue 6, pp. 10941-10959, ISSN No. 1314-3395, Impact factor: 0.27 (**Scopus-Indexed**)
4. **Balaji Vignesh L K, Selvalakshmi S, Keerthana S, Meenakshi Sundaram V (2018)**, “Quad-Slotted Microstrip Patch Antenna Design for Wideband Applications”, International Research Journal of Engineering and Sciences, Vol.4, Issue 1, pp. 1-11.
5. **Balaji Vignesh L K, Kartheeswari M, Uthranandhini R (2018)**, “Design of E-Shaped Microstrip Patch Antenna for S-band Applications”, Journal of Telecommunication Study (MAT Journals), Vol.3, Issue 1, pp. 7-12
6. **Balaji Vignesh L K, Kavitha K (2018)**, “Design of H-Shaped Microstrip Hybrid Patch Antenna for C-Band Applications”, International Science and Technology Journal, Vol.7, Issue 3, pp. 214-219, ISSN No. 1632-2882
7. **Balaji Vignesh L K, Sylvia Lilly Jebarani W (2015)**, “Fabricated Bandwidth Analysis of Microstrip Hybrid Patch Antenna for C-Band Application”, Journal of Chemical and Pharmaceutical Sciences, Vol.9, Issue 1, pp.476-481, ISSN No. 0974-2115. Impact factor: 1.42 (**Annexure-II**)

#### 4.2 CONFERENCE PUBLICATIONS

1. **Balaji Vignesh L K (2020)**, “Design of Microstrip Patch Antenna using Metamaterial for ISM Band Applications”, ICETET’20, Pandian Saraswathi Yadav Engineering College, Sivagangai.
2. **Balaji Vignesh L K (2020)**, “Security Based Trust Model for MANET Applications”, ICETET’20, Pandian Saraswathi Yadav Engineering College, Sivagangai.
3. **Balaji Vignesh L K (2019)**, “Design of E-Shaped Microstrip Patch Antenna for S-Band Applications”, NCRTE<sup>2</sup>C<sup>2</sup>T-2K19, PSR Rengasamy College of Engineering for Women, Sivakasi.
4. **Balaji Vignesh L K (2019)**, “Design Of Microstrip Hybrid Patch Antenna For ISM Band Applications”, ICAMST’19, AAA College of Engineering, and Technology, Sivakasi.
5. **Balaji Vignesh L K (2019)**, “Design of E-Shaped Microstrip Patch Antenna with Different Bands for Wideband Applications”, ICTIEECC-2019, PET Engineering College, Vallioor.
6. **Balaji Vignesh L K (2019)**, “Fire Fighting Robot using Bluetooth Controller”, ICTIEECC-2019, PET Engineering College, Vallioor.
7. **Balaji Vignesh L K (2018)**, “Design and Development of Quad-Slotted Microstrip Patch Antenna with different bands”, NCCT’18, Mepco Schlenk Engineering College, Sivakasi.
8. **Balaji Vignesh L K (2018)**, “Design and Development of Quad-Slotted Microstrip Patch Antenna with different bands”, ICTIEECC-2018, PET Engineering College, Vallioor. (**BEST PAPER AWARD**)
9. **Balaji Vignesh L K (2018)**, “Filtering Techniques for detection and removal of different types of noise involved in Digital Image Processing”, ICTIEECC-2018, PET Engineering College, Vallioor.
10. **Balaji Vignesh L K (2018)**, “Quad-Slotted Microstrip Patch Antenna Design for Wideband Applications”, ICETET’18, Pandian Saraswathi Yadav Engineering College, Sivagangai.

11. **Balaji Vignesh L K (2018)**, “Enhancing the Bandwidth of Microstrip Hybrid Multiband E-Shaped Patch Antenna”, ICETET’18, Pandian Saraswathi Yadav Engineering College, Sivagangai.
12. **Balaji Vignesh L K (2018)**, “Enhancing the Bandwidth of Microstrip Hybrid Multiband E-Shaped Patch Antenna”, NCRTE<sup>2</sup>C<sup>2</sup>T-2K18, PSR Rengasamy College of Engineering for Women, Sivakasi.
13. **Balaji Vignesh L K (2018)**, “Detection and Removal of Impulse noise using Non-Local Mean Filter”, NCRTE<sup>2</sup>C<sup>2</sup>T-2K18, PSR Rengasamy College of Engineering for Women, Sivakasi.
14. **Balaji Vignesh L K (2017)**, “Design of Microstrip Array Antenna for Wide Band Applications”, ICIISTMS 2017, PSR Engineering College, Sivakasi.
15. **Balaji Vignesh L K (2017)**, “Design of Microstrip Hybrid Patch Antenna For Wideband Applications”, ICTIEECC-2017, PET Engineering College, Vallioor. **(BEST PAPER AWARD)**
16. **Balaji Vignesh L K (2017)**, “Home Automation Control Using Android Smartphone”, ICTIEECC-2017, PET Engineering College, Vallioor.
17. **Balaji Vignesh L K (2017)**, “Design of Array Antenna for ISM Band Applications With 2.45 GHz”, NCRTECT-2K17, PSR Rengasamy College of Engineering for Women, Sivakasi.
18. **Balaji Vignesh L K (2015)**, “Fabricated Bandwidth Analysis of Microstrip Hybrid Patch Antenna for C-Band Application”, ICSCASE 2015, Noorul Islam University, Kumaracoil. **(BEST PAPER AWARD & Published in Annexure-II)**
19. **Balaji Vignesh L K (2015)**, “Enhancing the Bandwidth of Microstrip Hybrid Patch Antenna with Different Bands”, NCCC’15, Regional Office, Anna University Tirunelveli. **(BEST PAPER AWARD)**
20. **Balaji Vignesh L K (2015)**, “Enhancing the Bandwidth of Microstrip Hybrid Patch Antenna with Different Bands”, NCCICS’15, VV College of Engineering, Tisaiyanvilai.
21. **Balaji Vignesh L K (2014)**, “Enhancing the Bandwidth of Microstrip Hybrid Patch Antenna with Different Bands”, ILAFM 2014, R V College of Engineering, Bangalore.
22. **Balaji Vignesh L K (2014)**, “ROR Based Impulse Noise Detection and Removal using NL-Mean Filter”, RCEECE’14, PET Engineering College, Vallioor.
23. **Balaji Vignesh L K (2013)**, “ROR Based Impulse Noise Detection and Removal using NL-Mean Filter”, ETICE’13, PET Engineering College, Vallioor.

#### 4.3 Book/Book chapter publications

Title of the Book	Authors	Publication Name	Status of Publication
EC8701-Antennas and Microwave Engineering (R2017/7 <sup>th</sup> Semester ECE)	Dr.V.Malathy <b>L.K.Balaji Vignesh*</b> N.Thenmoezhi C.Shanmugaraja	The Charulatha Publications Books and IT Solutions company, Chennai	<b>Published (October 2020)</b>
EC8651-Transmission Lines and RF Systems (R2017/6 <sup>th</sup> Semester ECE)	B.Anandhi Meena Dr.S.Raghavan N.Kadhar Basha <b>L.K.Balaji Vignesh*</b> A.Yogeshwaran R.Karthik	Charulatha Publications, Chennai	<b>Published (January 2020)</b>

<b>EC6004-Satellite Communication (R2013/7<sup>th</sup> Semester ECE)</b>	G.Bharatha Sreeja Dr.P.Kannan <b>L.K.Balaji Vignesh*</b>	Sri Krishna Hitech Publishing Company Pvt.Ltd, Chennai.	<b>Published (April 2017)</b>
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### 5. Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
-	-	-	-	-	-

### 6. Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
-	-	-	-	-

### 7. Short term Courses/Seminars/FDP/Workshop/Conference Attended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Seminar on Antenna Simulations using AN-SOF	ANSOFT Corporation, United States	30.04.2020	30.04.2020
2.	FDP on LATEX (IIT Bombay-Spoken Tutorial)	Gopalan College of Engineering and Management, Karnataka	17.04.2020	30.04.2020
3.	Industry 4.0-Curtain Raiser (SHAPEMIND TECHNOSERVE)	Coimbatore Institute of Technology, Coimbatore	24.04.2020	28.04.2020
4.	World Intellectual Property Day (Online-Quiz)	Noorul Islam University, Kumaracoil.	26.04.2020	26.04.2020
5.	Electric Solar Vehicle Project (82.8125%)	ISIE (Imperial Society of India)	17.04.2020	30.04.2020
6.	International Certified Career Coach Program (Foundation Level-1)	Career Development Alliance, USA (Mindler)	10.04.2020	11.04.2020
7.	Antenna Design for 5G Test Beds	Velammal College of Engineering and Technology, Madurai	03.08.2019	03.08.2019
8.	Workshop on Deep Learning for Medical Image Analysis (CSIR Sponsored)	AAA College of Engineering, and Technology, Sivakasi	29.04.2019	30.04.2019
9.	Workshop on Metamaterial Antenna Design using CST Software	National College of Engineering, Maruthakulam	22.02.2019	22.02.2019
10.	FDP on Experimental Teaching and Learning in LABVIEW	Coimbatore Institute of Technology, Coimbatore	08.08.2018	12.08.2018
11.	FDP on Optimization Techniques in Antenna Design (E & ICT Academy)	National Institute of Technology, Warangal	25.06.2018	30.06.2018
12.	FDP on Signals and Systems (Anna University Sponsored)	Sethu Institute of Technology, Kariapatti, Virudhunagar	04.06.2018	11.06.2018
13.	FDP on Research Issues in Antenna Design for Wireless Applications	Mepco Schlenk Engineering College, Sivakasi	27.11.2017	01.12.2017

14.	Workshop on Antenna Design Using ADS Software Tool <b>(IEEE Sponsored)</b>	Vaigai College of Engineering and Technology, Madurai	07.10.2017	07.10.2017
15.	FDP on Exploring research potentials in networking domain using Net-Sim	Mepco Schlenk Engineering College, Sivakasi	23.07.2017	26.07.2017
16.	Arduino Programming	Pantech ProEd Pvt.Ltd, Chennai	14.06.2017	01.07.2017
17.	FDP on Embedded and Real Time Systems <b>(Anna University Sponsored)</b>	Kalasalingam Institute of Technology, Sriviliputtur	15.05.2017	22.05.2017
18.	Workshop on LaTeX	Mepco Schlenk Engineering College, Sivakasi	28.01.2017	28.01.2017
19.	Workshop on Hardware in the loop Simulation for Power Electronics & Control Applications <b>(Lab-VIEW)</b>	Mepco Schlenk Engineering College, Sivakasi	16.12.2016	17.12.2016
20.	FDP on Multi-Core Architectures and Programming <b>(Anna University Sponsored)</b>	Anna University Regional Centre, Tirunelveli	01.12.2016	07.12.2016
21.	ANALOG, MCU, WEBENCH & CONNECTIVITY <b>(TEXAS INSTRUMENTS Sponsored)</b>	Mepco Schlenk Engineering College, Sivakasi	15.06.2016	18.06.2016
22.	Seminar on Research Issues in Computer and Communication Networks	Mepco Schlenk Engineering College, Sivakasi	26.09.2015	26.09.2015
23.	FDP on People Empowering People	PET Engineering College, Vallioor	29.07.2015	30.07.2015
24.	Seminar on Trends in RF Circuits and System Design for Wireless Technologies	Mepco Schlenk Engineering College, Sivakasi	20.03.2015	21.03.2015
25.	Seminar on Large Area and Flexible Microelectronics	RV College of Engineering, Bangalore	18.12.2014	18.12.2014
26.	Seminar on Recent Trends in Pattern Recognition and Machine Learning Techniques	Mepco Schlenk Engineering College, Sivakasi	19.09.2014	20.09.2014
27.	Seminar on Bio-Medical Signal/Image Processing for Diagnosis of Diseases	Mepco Schlenk Engineering College, Sivakasi	14.03.2014	15.03.2014
28.	Seminar on Recent Issues in Antenna Design and Testing	Mepco Schlenk Engineering College, Sivakasi	24.09.2013	25.09.2013

**8. Short term Courses/Seminars/FDP/Workshop/Conference organized:**

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	E-Yantra (Robotics) & Internet Of Things (IoT)	AAA College of Engineering, and Technology, Sivakasi	31.01.2020	01.02.2020
2.	IoT using Raspberry Pi	AAA College of Engineering, and Technology, Sivakasi	07.03.2019	09.03.2019

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3.	Advanced Design System (ADS) Software-Hands on Training	AAA College of Engineering, and Technology, Sivakasi	21.09.2017	23.09.2017
4.	Matlab-Hands on Training	AAA College of Engineering, and Technology, Sivakasi	21.09.2017	23.09.2017
5.	PSpice-Hands on Training	AAA College of Engineering, and Technology, Sivakasi	17.01.2017	19.01.2017
6.	Quad Copter Development Workshop (IIT-Roorkee)	AAA College of Engineering, and Technology, Sivakasi	17.08.2016	18.08.2016
7.	National Level Robotics Workshop (IIT-Roorkee)	AAA College of Engineering, and Technology, Sivakasi	18.03.2016	20.03.2016

### 9. Online Courses

Sl.No	Course title	University	Date
1.	Microprocessors and Interfacing	IIT Guwahati (NPTEL)	02.07.2020
2.	Antennas	IIT Bombay (NPTEL)	06.04.2019
3.	Leadership	IIT Kharagpur (NPTEL)	27.10.2018
4.	Principal of Signals and Systems	IIT Kanpur (NPTEL)	20.01.2018
5.	Satellite Communication	IIT Kanpur (NPTEL)	21.10.2017

### 10. Patents filed/awarded:

NIL

### 11. Membership in Professional societies:

- Member of Teaching and Education Research Association (TERA), Member No. TERA-M 19528
- Member of Institute For Engineering Research and Publication (IFERP), Membership ID No. PMIN31960582
- Member of International Association of ENGINEERS (IAENG), Member No.151703
- Associate Member of the Institution of Electronics and Telecommunication Engineers (IETE), Member No. AM 500159
- Member of International Society for Research and Development (ISRDI), Membership ID No. M4150904014

### 12. Awards, Recognition & Achievements:

- Acted as Resource Person for One day webinar “Recent Trends in Antenna Design” held at SCAD Polytechnic College, Cheranmahadevi on 16<sup>th</sup> July 2020.
- Received Centum percent result in Environmental Science and Engineering (GE6351) for third year ECE Students during Anna University Nov/Dec Exam 2018 organized by AACET, Annual Day 2020.
- Acted as NAAC In-charge for Students Progression and Support & Alumni Association in AACET, Sivakasi (Criteria V)
- Acted as Alumni Association Co-ordinator in AACET, Sivakasi.

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- **Acted as Reviewer** in Journal of Electrical Engineering and Technology (**SCI Journals**)
- **Acted as Editor** in Journal of Telecommunication Study (**MAT Journals**)
- **Acted as Resource Person** for Summer Internship on the topic of “**Fractal Antenna Design**” held at Velammal College of Engineering and Technology, Madurai on 14<sup>th</sup> June 2019.
- Received **Centum percent result in Principles of Management (MG6851)** for third year ECE Students during Anna University Apr/May Exam 2018 organized by AACET, Annual Day 2019.
- **Acted as Resource Person** for two days National Workshop “**Productive Tools for Writing Journals and Articles**” held at AAA College of Engineering and Technology, Sivakasi on 07<sup>th</sup> Jan and 08<sup>th</sup> Jan 2019.
- **Acted as Resource Person** for two days National Workshop “**Arduino Programming**” held at PET Engineering College, Vallioor on 03<sup>rd</sup> Jan and 04<sup>th</sup> Jan 2019.
- Received “**BEST SYMPOSIUM CO-ORDINATOR AWARD**” from the hands of HOD/ECE, organized by “**ELCOM-TECH FEAST 2017**”.
- Received “**STAFF OF THE YEAR AWARD- 2016**” for securing **centum percent result in Environmental Science and Engineering (GE6351)** for third year ECE Students during Anna University NOV/DEC Exam 2015 organized by AACET, Annual Day 2016.
- Received “**BEST FACULTY ACHIEVEMENT AWARD**” from the hands of **Pondicherry Chief Minister, Mr.N.Rangasawamy** organized by “**TEFSA 2016**”.
- Secured 2<sup>nd</sup> Rank in Final year Semester University Examinations in my Post Graduate.
- Secured 3<sup>rd</sup> Rank in Third Semester University Examination in my Under Graduate.
- Won 1<sup>st</sup> Prize in Marketing during Association Activities held at PET Engineering College, Vallioor.
- Secured 1<sup>st</sup> Place in Departmental Club Activities. (MSEC, Sivakasi)

**Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties)**  
**NIL**