Dr. Siddarama R Patil Professor and Head Mobile No. : 9480781117	Department of Electronics and Communication Engineering, Poojya Doddappa Appa College of Engineering Kalaburagi-585102, Karanataka, India. siddaramapatil@pdaengg.com

Curriculum Vitae

● **Education Details**

Exam Passed	University /Board	Year	Overall % of Marks	Brach/ Specialization
SSLC	Karnataka Secondary Education Examination Board	1983	76%	---
PUC	Karnataka Board of Pre-University Education.	1985	71%	---
BE	Gulbarga University, Gulbarga	1990	70.4%	Electronics & Communication Engineering
M. Tech.	Indian Institute of Technology (IIT), Kharagpur	1999	9.06 (CGPA)	Telecommunication System Engineering
Ph. D	Indian Institute of Technology (IIT), Kharagpur	2009	Ph. D	--

● **Professional Position Held**

Date into Service	Designation	Organization	Responsibility
February 2022 to till date	Vice Principal Academic	PDA College of Engineering, Kalaburagi	Academic Administration, Teaching UG and PG students, Guiding PhD students and Research
September 2018 to February 2022	Dean Academic	PDA College of Engineering, Kalaburagi	Academic Administration, Teaching UG and PG students, Guiding PhD students and Research
12-09-2012 To September 2018	Professor and Head, E&CE Department & Dean Academic	PDA College of Engineering, Kalaburagi	Teaching, Research & Development and Administration

27-03-2009 To 11-09-2012	Professor	PDA College of Engineering, Kalaburagi	Teaching and Research & Development
6-1-2003 To 27-03-2009	Selection Grade Lecturer	PDA College of Engineering, Kalaburagi	Teaching
6-1-1999 To 5-1-2003	Senior Lecturer	PDA College of Engineering, Kalaburagi	Teaching
6-1-1992 To 5-1-1999	Lecturer	PDA College of Engineering, Kalaburagi	Teaching

- **Additional Experience**

Period	Designation	Organization	Responsibility
2009-2016	Dean (Academic)	PDA College of Engineering, Kalaburagi	Academic and Administration
2010-2016	NBA coordinator	PDA College of Engineering, Kalaburagi	Academic and Administration
2018-Till Date	NBA coordinator	PDA College of Engineering, Kalaburagi	Academic and Administration
June 2018-Till Date	Dean (Academic)	PDA College of Engineering, Kalaburagi	Academic and Administration
06-01-2020 to 20-05-2020	Visiting Professor	Asian Institute of Technology, Bangkok	Taught a course on Statistical Signal processing
2012-13	Visiting Faculty	Visvesvaraya Technological University, Belgaum. Regional Centre Gulbarga	Conduct the classes for M.Tech in VLSI

Achievements:

1. Selected by MHRD, Government of India for Short term Indian faculty secondment to Asian Institute of Technology (AIT), Bangkok, Thailand as a visiting professor for the academic year 2019-20. This will help in working with international faculty and also helps in branding our education system abroad.
2. Prof. K. Arumugam National Award for Innovative Work in Engineering and Technology for the year 2020 by Indian Society for Technical Education

- **Memberships in Professional Associations**
  - Life Member of Indian Society for Technical Education (ISTE) -LM18723

- Senior Member of Institute of Electrical and Electronics Engineers (IEEE)
- Fellow of Institute of Electronics and Telecommunication Engineers (IETE)-F169610
- Member of Institute of Engineers, India –M123711-4

● Research and Development

Ph. D thesis guided

1. Energy – Efficient Routing Protocol for Wireless Sensor Networks By Basavaraj S. Mathapati
2. Efficient Utilization of Spectrum in Cognitive Radio Technology By Rohita Ujjinimathad
3. Reliable Routing Protocols in MANETs for Disaster Recovery Management by Sujata N Kokkunda
4. Study of Performance Aspects error control codes with VLSI Implementation By Jayashree Nidagundi
5. DESIGN AND PERFORMANCE STUDY OF DIFFERENT APPROACHES IN COGNITIVE RADIO by Vilaskumar Patil

● Research Grants

1. Received grants from VTU (Rs. 10 Lakhs) for project "Structured Binary and Non-Binary Low Density Parity Check Codes and Reduced Communication", 2010-2013.
2. Received grants from AICTE (3.7 Lack for the research proposal "Applications of Wireless Sensor Network in the Environment Monitoring and Earth Sensing"

Research Works for PATENTS

Sl No	Patent Number	Title	Status with Date
1	201941044634	A system to remotely monitor health of the elderly using sensor assembly for timely medication	Published 9/10/2020
2	201941042625	A System To Monitor Sensor Network Based Smart Green House For Cultivation of Dendrobium	Published 9/10/2020
3	201941040286	Working of A Secured Multi-Tenant Framework In Cloud Computing Systems In Health Care Management System	Published 9/10/2020
4	201941033341	A System to Monitor Pigeon-Pea Agriculture Along With Helicoverpa Armigera Pest Control Using Wireless Sensor Assembly	Published 9/10/2020
5	330666-001	Anklet to provide security to women	Published 11/9/2020
6	330666-002	Bio Tele Monitoring Belt for Pregnant Women	Published 31/07/2020

7	330666-003	Gas Stove Knob Indicating Leakage	Published 14/08/2020
8	201941049444	The Design of Microstrip Patch Angenna Using the Geometry of Golden Ratio	Published 9/10/2020
9	201941040278	A Methodology of Spectrum Sensing of Cognitive Radio Systems Using Cluster Based Procedure	Published 9/10/2020
10	202241003064	Method for Maximizing Seamless Vertical Meria Independent Handover using Modified Invasive Weed optimization Algorithm	Published 04/02/2022
11	330665-002	Signalling Arm Band for the Elderly	Published 18/06/2021
12	202241018488	Brain Tumor Classification using SLIC Segmentation with Superpixel Fusionm Alexnet and Linear Neighborhood Semantic Segmentation.	Filed: 29/03/2022

- **Technical Publications**

Technical papers published in International/ National journals

1. Kailas and Siddarama R Patil, "Spectrum Sharing with Underlay Constraints in Cognitive Radio Networks", International Journal of IT in Industry, vol. 9, no. 2, pp. 1550-1555, 2021.

2. Kailas and Siddarama R Patil, "Spectrum Sharing with Overlay Constraints in Cognitive Radio Networks", International Journal of IT in Industry, Vol. 9. No. 2, pp 1514-1519, 2021.

3. Revanasiddappa Kinagi, Ravi M Yadahalli and Siddarama Patil, "Parametric Study of Ring Coupled and Strip Connected Ring Coupled with Different Orientations for Wireless Multiband Applications", International Journal of Design Engineering, Issue 6, Pages 6759-6766, ISSN: 0011-9342, 2021.

4. Snehalatha , Siddarama R Patil, Brain MRI Image Denoising Using Spectral Total Variation Denoising. *European Journal of Molecular & Clinical Medicine*, *2020,* Volume 7, Resourceful Traffic Off-Load Weed Optimization using Heterogeneous Wireless Network (HWNS)", Paideuma Issue 8, Pages 3044-3052 **Online ISSN:** 2515-8260

5. Snehalatha and Siddarama R Patil, Brain Mri Image Segmentation Using Simple Linear Iterative Clustering (SLIC) Segmentation With Superpixel Fusion. Bioscience Biotechnology Research Communication an Open Access International Journal **P-ISSN: 0974-6455 E-ISSN: 2321-4007**,Special Issue Vol 14 No 05 (2021) Pages: 358-364. DOI: http://dx.doi.org/10.21786/bbrc/14.5/62

6. Soumya B Peddi and Siddarama R Patil,, "A Survey on Vertical Handoff Decision algorithm in Next Generation Wireless Networks", International Journal of Emerging

Technology in Computer science And Electronics, Volume 23, Issue 6 ,ISSN: 0976-1353.(October 2016)

7. Soumya B Peddi, Siddarama R Patil and Jayashree V Agarkhed, " A novel approach for vertical handoff decision replica in wireless network in heterogeneous using Game speculation", Scopus Indexed And Q4 Journal of Solid State Technology, Volume 63, Issue 6 2020, ISSN: 0038-111X.

8. *Soumya B Peddi, Siddrama R Patil and Jayashree V Agarkhed, "*A Novel Approach for Energy Journal in Vol. XIII, Issue XI, November 2020.

9. Sujatha Mallapur, Siddarama Patil, Jayashree V. Agarkhed, "Load Balancing Technique for Congestion Control Multipath Routing in Mobile Ad Hoc Networks", Springer Wireless Personal Communications, 2017, Volume 92,No.2, Page No.749-770. EISSN 0929-6212, **DOI:** 10.1107/s11277-016-35753

10. Patil V. M., Ujjinimatad R., Siddarama R Patil, "Signal Detection in cognitive Radio networks over AWGN and Fading Channels" International Journal of Wireless Information Networks, 25(1), pp. 79-86.

11. Sujata V Mallapur, Siddarama R Patil, Jayashree V Agarkhed, "Multi-constraints reliable multicast routing protocol for group communications in MANETs", International Journal of Information Technology, Springer international publishing, Singapore, June 2018, Volume 10, Issue 2, pp 147–163. EISSN-2511-2104 ,PISSN2511-2112,UGC- 49273, DOI:https://doi.org/10.1007/s41870-018-0097-0

12. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "A Stable Backbone-based on Demand Multipath Routing Protocol for Wireless Mobile Ad Hoc Networks ", *International Journal of Computer Network and Information Security,* Volume 8, Number 3, Pages 41-51, March 2016.

13. Jayashree Agarkhed, PatilYogitaDattatraya, Siddarama R. Patil "A Revolutionary Impact of IoT for Better connectivity among Real world Objects", International Journal of Control Theory and Applications, (IJCTA), **Volume :** 10, **Issue No. :** 9, 2017, **pp 603-611,** ISSN: 0974-5572, IF:8.4, RG citations (1)*,SCOPUS (2008 - 2016), ICI*

14. Kailas, S R Patil and K Sridhar, "Hybrid Spectrum Sharing Power Allocation Concept in Cognitive radio networks," *Indian Journal of Scientific Research*, Volume 12, Number 1, November 2015.

15. Gauri Kalnoora, Jayashree Agarkhed and Siddarama R. Patil, "Intrusion Detection Framework for Object Tracking in Wireless Sensor Networks", IJCTA, Vol. 8, Issue 5, May 2015, pp. 2219-2227.

16. Sujata V. Mallapur and Siddarama R. Patil, "Fuzzy Logic Based Trusted Candidate Selection for Stable Multipath Routing", *International Journal of Information Technology and Computer Science*, Volume 7, Issue 06, Pages 12-21, 2015.

17. Rohita Ujjinimatad and Siddarama R Patil, "Mathematical analysis for detection probability in cognitive radio networks over wireless communication channels", IET journal of Engineering, Vol. 2, Iss. 7, July 2014.

18. M. Gaurish and Dr. Siddarama Patil, " Energy Enchancement using network coding and Duty Cycle in Wireless Sensor Networks", *International Journal of Science and Research (IJSR)*, Volume 3, Issue 7, July 2014.

19. Revansiddayya and Dr. Siddarama Patil, "A Simplified Bit-Line Technique for Memory Optimization", *International Journal for Scientific Research and Development* ,Volume 3, Issue 8, July 2014.

20. Md. Muzamil Adnan and Siddarama R. Patil, "Design and Analysis of Micro Strip patch Antenna with optimization for Wireless Communication," *International Journal for Scientific Research and Development*, Volume 2, Issue 7, August 2014.

21. Rohita Ujjinimatad and Siddarama R Patil, "Spectrum sensing in cognitive radio networks with known and unknown noise levels," in *IET Communications*, Volume 7, Number 15, Pages 1708-1714, Oct. 15 2013.

22. Rohitha Ujjinimatad and Siddarama R Patil, "Spectrum Algorithm for Cognitive Radio Networks based on Random Data Matrix", *International Journal of Computer Applications*, Volume 62, Number 3, 2013.

23. Kunjan Shinde, Jayashree C. Nidagundi and Siddarama.R. Patil, "FPGA Implementation of Fast Error Correction and Detection for Memories," *International Journal of Innovations in Engineering and Technology (IJIET)*, with ISSN: 2319-1058, pp.70-78, Vol. 2 Issue 4, August 2013.
24. Sujata V. Mallapur, Siddaram R. Patil, "Survey on Simulation Tools for Mobile Ad-Hoc Networks", *International Journal of Computer Networks and Wireless Communications*", Volume 2, Number 2, April 2012, Pages 241-248.

25. Basavaraj. S. Mathapati, Dr. V. D. Mytri and Dr. Siddarama. R. Patil," Simulation Environment for Wireless Sensor Networks ", *International Journal of Computer Science and Emerging Technologies*, Volume 1, Issue 2, August 2010, Pages 140-143.

26. Basvaraj. S .Mathapati, Siddarama. R. Patil, V. D. Mytri "Power Control with Energy Efficient and Reliable Routing MAC protocol for Wireless Sensor Network", *International journal of Computer Engineering Technology (IJCET)*, Volume 3, Issue 1, January-June 2012, Pages 223-231.

27. Basavaraj. S. Mathapati, Siddarama. R. Patil, V. D .Mytri, "A Reliable Data Aggregation Forwarding Protocol for Wireless Sensor Networks", International *Journal of Computer Science and Network Security*, Volume 12, Number 5, May 2012, Pages 90-95.

28. Basavaraj. S. Mathapati, Siddarama. R. Patil, V. D. Mytri, "Data Aggregation with Energy Efficient Reliable Routing Protocol for Wireless Sensor Networks", *International Journal of Computer Science and Internet Security*, Volume 10. Number 5, May 2012, pp. 38-43.

29. Basavaraj. S. Mathapati, Siddarama. R. Patil and V. D. Mytri, "An Adaptive Energy Efficient Forwarding Data Aggregation and Qos Protocol for Wireless Sensor Networks", *International Journal of Computer Application*, Vol. 46 Number 20, May 2012, pp. 38-43.

30. Basavaraj. S. Mathapati, Siddarama. R. Patil, V. D. Mytri, "Distributed Power Control with Energy Efficient Forwarding Routing Protocol for Wireless Sensor Network", *International journal of Information Technology and Knowledge Management,* July -December 2012, Volume 5, Number 2, Pages 387-392.

31. Basavaraj S. M, Dr. V. D. Mytri and Dr.Siddarama R. patil, "An Adaptive Energy Efficient Reliable Routing Protocol for Wireless Sensor Networks", *ACEEE International Journal on Network Security*, Vol. 1, No. 1, Jan 2010, pp.31-36.

32. Basavaraj S. M, Dr. V. D. Mytri and Dr. Siddarama R. Patil, "Simulation Environment for wireless Sensor networks," *International Journal of Computer Science & Emerging Technologies (IJCSET)*, Volume 1 Issue 2, August 2010, pp. 140 - 143.

33. Siddarama R. Patil and Sant S. Pathak, "Irregular Quasi-Cyclic Low-Density Parity-Check Codes from $(v, \{k_1, k_2\}, 1)$ Block Design," accepted for publication in *IEEE Transaction on Communications*.

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34. Peddi S., Patil S., Agarkhed J. (2022) QoS Enhanced Optimum Vertical Handoff Decision Algorithm for Heterogeneous Wireless Networks. In: Joshi A., Mahmud M., Ragel R.G., Thakur N.V. (eds) Information and Communication Technology for Competitive

Strategies (ICTCS 2020). Lecture Notes in Networks and Systems, vol 191. Springer, Singapore. https://doi.org/10.1007/978-981-16-0739-4_97

35. Jayashree Agarkhed, Ashalatha R, Siddarama Patil "Smart Healthcare Systems Using Cloud Computing Environment", 2nd International Conference on Communication, Devices and Networking (ICCDN-2018), 2-3 June 2018, at Dept. of Electronics and Communication, Sikkim manipal institute of technology, Sikkim. Springer, Singapore. Book Title: Advances in Communication, Devices and Networking, Springer Nature Singapore Pte Ltd, 2019. Lecture Notes in Electrical Engineering 537, January 2019. PP: 545-552. Print ISBN: 978-981-13-3449-8. Online ISBN: 978-981-13-3450-4. Chapter: 468752_1_En_59

36. Jayashree Agarkhed and Patil Yogita Dattatraya, Siddarama Patil "Internet of Things that makes Things Talk", Proceedings in 5th international conference on innovations in computer science and engineering (ICICSE-2017), 18-19 Aug 2017, Guru Nanak Institutions, Hyderabad, Chapter: 52, vol 32, ISSN: 2361 3370, ISBN: 978-981-10-8200-9, EISBN 978-981-10-8201-6

37. Jayashree Agarkhed, Gauri Kalnoor and Siddarama R Patil, "Intrusion Detection based Pattern Matching Techniques in Wireless Sensor Networks", Proceedings in 5th international conference on innovations in computer science and engineering (ICICSE-2017), 18-19 Aug 2017, Guru Nanak Institutions, Hyderabad, Chapter: 46, vol 32 Springer Nature Singapore 2018, EISBN:978-981-10-8201-6, ISSN: 2361 3370, ISBN: 978-981-10-8200-9, DOI: https://doi.org/10.1007/978-981-10-8201-6_46

38. Jayashree Agarkhed, Patil Yogita Dattatraya, and Siddarama R, Patil "Performance Evaluation of QoS Aware Routing Protocols in Wireless Sensor Networks", Artificial Intelligence and Evolutionary Computations in Engineering Systems (Springer AISC Series), Proceedings of ICCII 2016. Proceedings 1st international conference on computational Intelligence and Informatics-2016 (ICCII-2016), 28-30 May 2016, JNTU, Hyderabad Vol No-507, pages: 559-569,Vol 507, UGC No. 49365, ISSN: 2194-5357, ISBN: 978-981-10-2470-2, ISBN:978-981-10-2471-9,D OI: 10.1007/978-981-10-2471-9_54

39. Gauri Kalnoor, Jayashree Agarkhed and Siddarama R. Patil, "Agent-based QoS Routing for Intrusion Detection of Sink hole attack in Clustered Wireless Sensor Networks", Artificial Intelligence and Evolutionary Computations in Engineering Systems (Springer AISC Series), Proceedings of1st international conference on computational Intelligence and Informatics (ICCII 2016), Vol No-507, Number of pages: XIV, 72, Chapter 55, pp: 571-583, UGC No.: 49365, ISSN: 2194-5357,ISBN: 978-981-10-2470-2, , ISBN: 978-81-322-2654-3, Online ISBN: 978-981-10-2471-9, DOI: 10.1007/978-981-10-2471-9-55

----------------------------Conference Papers ------------------------------------

40. V. Snehalatha and Patil. Siddarama R, Brain Tumor Image De-noising Using Edge Adaptive Total Variation Denoising Algorithm (November 24, 2020). Proceedings of the 2nd International Conference on IoT, Social, Mobile, Analytics & Cloud in Computational Vision & Bio-Engineering (ISMAC-CVB 2020), Available at SSRN: https://ssrn.com/abstract=3736536 or http://dx.doi.org/10.2139/ssrn.3736536

-------- ACM International Conference--------------

41. Jayashree Agarkhed, Ashalatha R, "An Efficient Privacy Preserving Cryptographic Approach in Cloud Computing", 2nd International Conference on Future Networks and Distributed Systems (ICFNDS'18), Amman, Jordan, June 26-27, 2018. Article No 42 ACM Proceedings. ACM New York, NY, USA, ISBN:978-1-4503-6428-7 , WoS, SCOPUS, DOI: https://doi.org/10.1145/3231053.3231095

42. Nidagundi J. C., Patil S. R. "High throughput structured LDPC layered decoder", Proceedings of the 2017 International Conference on Wireless Communication, Signal Processing and Networking, SiSPNET 2017, 2018-January, pp. 1559-1563.

43. *Soumya B Peddi, Siddrama R Patil and Jayashree V Agarkhed, "ETOVH: Efficient Traffic Offloading Vertical Hanover Algorithm for Heterogeneous Wireless Networks", ELSEVIER 2ND International Conference on IoT, Social, Mobile, Analytics and Cloud on Computational Vision and Bio-Engineering (ISMAC-2020), Thoothukudi, India, 29-30 October 2020.*

44. *Soumya B Peddi, Siddrama R Patil and Jayashree V Agarkhed, " An energy efficient traffic offloading vertical handover algorithm for heterogeneous wireless networks", Springer 2nd International conference on Adaptive Computational Intelligence (ICACI-2020), Mysuru, Karnataka, India, 15-16 December 2020.*

45. *Soumya B Peddi, Siddrama R Patil and Jayashree V Agarkhed, " QoS enhanced optimum vertical handoff decision algorithm for heterogeneous wireless networks", Springer Fifth International conference on information and communication technology (ICTCS 2020) Jaipur,India ,11-12 December 2020.*

46. *Soumya B Peddi, Siddrama R Patil and Jayashree V Agarkhed, "Power intensify prime vertical handoff decision algorithm for heterogeneous wireless networks", ELSEVIER International Conference on IOT Based Control Networks and Intelligent systems,(ICICNIS-2020) ,Kottayam,India ,10-11 December 2020.*

----- IEEE International Conferences------

47. Siddarama R Patil, Rajashree and Jayashree Agarkhed,"A Survey on Byzantine Attack using Secure Cooperative Spectrum Sensing in Cognitive Radio Sensor Network", 6th International Conference on Computing Methodologies and Communication, 29-31 March 2022, pp. 267-270

48. Farha Deeba and Siddarama Patil, " IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE IN DISEASE PREDICTION AND HEALTHCARE SYSTEM- A

SURVEY" the 3rd IEEE International Conference on "Innovations in Power & Advanced Computing Technologies", 27-29, November 2021(**i-PACT 2021)**

49. Farha Deeba and Siddarama Patil, "Utilization of Machine Learning Algorithms for prediction of diseases" the 3rd IEEE International Conference on "Innovations in Power & Advanced Computing Technologies", 27-29, November 2021(**i-PACT 2021)**

50. *Soumya B Peddi, Siddrama R Patil and Jayashree V Agarkhed, "Load Balance Distribution in Wireless Sensor Network" IEEE 4th International Conference on Electronics, Aerospace an International Technology (ICECA- 2020), Coimbatore, India, 5-7 November 2020.*

51. Sujata V. Mallapur, Siddarama R. Patil , Jayashree Agarkhed,**"**Reliable Multicast Routing Protocol with mobility prediction for Mobile Ad Hoc Networks" TENCON 2018 - 2018 IEEE Region 10 Conference, 28-31 Oct. 2018, Jeju, Korea (South), Korea (South), **DOI:** 10.1109/TENCON.2018.8650239

52. Shriyanka, Siddarama R. Patil, "Smart Environment Monitoring Through Internet of Things (IoT) using RasberryPi" in International Conference on Current Trends in Computer, Electrical, Electronics and Communication, CTCEEC 2017, pp. 595-600.

53. Umesh chavan and Siddarama R Patil, "Low power VLSI Circuit design at 60nm Technology" Communicated IEEE conference at Punjab.

54. Jayashree Agarkhed, Ashalatha R and Siddarama Patil, "An Efficient Auditing Scheme for Data Storage Security in Cloud", Proceedings in IEEE 2017 International Conference on circuits Power and Computing Technologies (ICCPCT-2017), from 20-21 April 2017, at Baselios Mathews II College of Engg, Lake View, Muthupilakadu, Kollam, Kerala. , ISBN: 978-1-5090-4966-0/17, **ISBN:** 978-1-5090-4967-7, **DOI:** 10.1109/ICCPCT.2017.8074245, Google Scholar (1),SCOPUS, IEEE citation (1), WOS, RG citations (2)

55. Ashalatha R, Jayashree Agarkhed, Siddarama Patil, "Network Virtualization System for Security in Cloud Computing", Proceedings in IEEE 11th International Conference on Intelligent Systems and Control(ISCO) 2017, 5-6 Jan 2017, Coimbatore, Tamil Nadu, India, pp: 346 - 350., E-ISBN: 978-1-5090-2717-0, INSPEC Accession N0: 16674887, PoD-ISBN: 978-1-5090-2718-7, IEEE citation (2), WOS, RG citations (2),SCOPUS (1), DOI:10.1109/ISCO.2017.7856014

56. *Basanti Ghanti and Siddarama Patil, "Impact of Oversampling Digital Filter at The Relay On The Performance Of Physical Layer Network Coded Transmission", 5th Edition of International IEEE Conference on Wireless Networks & Embedded Systems, Punjab,* Oct 14-15 2016.

57. *Yogita Patil Dattatraya, Jayashree Agarkhed and Siddarama Patil, "Cloud assisted performance enhancement of smart applications in Wireless Sensor Networks," 2016 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, 2016, Pages 347-351.

58. Umesh J Chavan and Siddarama R Patil *"High performance and Low power ONOFIC approach for VLSI CMOS circuits Design"*, *Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, 2016, Pages 347-351.

59. Vilas M. Patil and Siddarama R. Patil, "A survey on spectrum sensing algorithms for cognitive radio," *2016 International Conference on Advances in Human Machine Interaction (HMI)*, Doddaballapur, 2016.

60. Ashalatha R., Jayashree Agarkhed and Siddarama R Patil, "Analysis of simulation tools in cloud computing," *2016 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, Pages 748-751, 2016.

61. *Umesh J Chavan and Siddarama R Patil,* "High performance and low power ONOFIC approach for VLSI CMOS circuits design," *2016 International Conference on Communication and Signal Processing (ICCSP)*, Melmaruvathur, 2016, pp. 0426-0429.

62. Ashalatha R, Jayashree Agarkhed and Siddarama Patil, "Data storage security algorithms for multi cloud environment," *2016 2nd International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB)*, Chennai, Pages 686-690, 2016.

63. Soumya B. Peddi and Siddarama R. Patil, "Game theory based vertical handoff decision model for media independent handover in heterogeneous wireless networks," *2016 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, Pages 719-724, 2016.

64. Basanti Ghanti and Siddarama R Patil, "Performance Comparison of PNC for different Modulation Techniques with Oversampling Digital Filter at the Relay", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages 123-127, 4-5 October 2016.

65. Jayashree C. Nidagundi and Siddarama R Patil, "FPGA Implementation of Low Power Sum Product LDPC Decoder", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages 188-192, 4-5 October 2016.

66. Umesh J Chavan and Siddarama R Patil, "Low Power VLSI Circuit Design and high performance using lector approach at 90 nm Technology", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages 242-245, 4-5 October 2016.

67. Vilaskumar M.Patil, Rohitha U M nd Siddarama R Patil, "Dynamic Spectrum Access By Using Energy Detection Spectrum Sensing Method In Cognitive Radio Networks", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages 339-342, 4-5 October 2016.

68. Sushma Rathod and Siddarama R Patil, "IOT Solution For Monitoring and Controlling Appliances In Home", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages 392-394, 4-5 October 2016.

69. Soumya Peddi and Siddarama R Patil, "A Survey On Vertical Handoff Decision Algorithms In Next Generation Wireless Networks", *International Conference on Current*

Research and Applications in Electrical Science, (ICCRAES-2016), Pages 392-394, 4-5 October 2016.

70. Revansidda and Siddarama R. Patil "Compact Microstrip Patch Antenna For Ism Band Applications", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages , 4-5 October 2016.

71. Revansidda and Dr. Siddarama R. Patil "Compact ring coupled Multi band Rectangular Microstrip patch antenna with C-Slot", The 9th Annual International Conference Antenna Test & Measurement Society, ATMS india 2016.

72. Sujata V. Mallapur and Siddarama R. Patil, "Mobility-Aware Reliable Multicast Routing Protocol For Wireless Mobile Ad Hoc Networks", *International Conference on Current Research and Applications in Electrical Science, (ICCRAES-2016),* Pages 93-98, 4-5 October 2016.

73. Jayashree C. Nidagundi and Siddarama.R. Patil," Flexible Hardware Architecture for LDPC Encoder", *3rd international conference on Innovations in information, Embedded and Communication Systems*, 17-18 March 2016.

74. Jayashree C. Nidagundi and Dr. Siddarama.R. Patil, "LDPC Decoder Perfomance Comparision of Binary Codes and FPGA Implementation of Encoder", *National Level Conference On Recent Advancements in Electronics and Communication Engineering (NCRAECE-2016)*, 8th October 2016, SDMCET, Dharwad.

75. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Multi-constrained Reliable Multicast Protocol using Network Coding in MANETs", *IEEE 8th international conference on communication systems and networks (COMSNETS 2016),* Pages 1-6, 5-9 January 2016.

76. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Mobility Aware Recovery Technique for Reliable Multicast Routing Protocol in MANETs ", *IEEE WIECON-ECE 2015*, Pages 345-349, 19- 20 December 2015.

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79. Sujata V. Mallapur and Siddarama R. Patil, "Fuzzy Logic-based Stable Multipath Routing Protocol for Mobile Ad Hoc Networks ", *Eleventh IEEE India International Conference (INDICON 2014),* Pune, India, Pages 1-6, December 11-13 2014.

80. Rohitha Ujjinimatad, and Siddarama R Patil, "Semi-blind detection method for cognitive Radio networks in multiple antenna systems," in *IEEE 2013 International Conference on Microelectronics, Emerging Research Areas, Communications and Renewable Energy (AICERA/ICMiCR), 2013 Annual International Conference on ,,* pp.1-6, 4-6 June 2013.

81. Mrs. Jayashree C. Nidagundi, Prof. Dr. Siddarama R. Patil, "Review Of Vlsi Arechitecture Of Ldpc Decoders," *National conference on Emerging Trends Engineering and Management, a*t PESIT, Shivamoga ISBN: 978-81-926416-0-7, pp.1-6, 1-2nd March 2013.

82. Sujata V. Mallapur and Siddarama R. Patil, "Route Stability Based on Demand Multipath Routing Protocol for Mobile Ad Hoc Networks*", IEEE third International Conference on Communication and Signal Processing*", April 3-5, 2014, India, pp. 1288-1292.

83. Rohitha Ujjinimatad, and Siddarama R Patil., "Signal detection in cognitive radio networks over AWGN, Nakagami-m and Nakagami-q channels," in *2014 IEEE Eleventh International Conference on Wireless and Optical Communications Networks (WOCN),* pp.1-5, 11-13 Sept. 2014.

84. Sujata V. Mallapur, Siddaram R. Patil," Stable Backbone Based Multipath Routing in mobile Ad Hoc Networks," *IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT-2013),* 21st and 22nd March 2013, Tamilnadu, India, pp. 1105-1110.

85. Basavaraj S. Mathapati, Siddarama R. Patil and V. D. Mytri, "Energy Efficient Cluster Based Mobility Prediction for Wireless Sensor Networks", *IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT-2013),* 21st and 22nd March 2013, Tamilnadu, India.

86. Rohitha Ujjinimatad, and Siddarama R Patil, "Statistical Tests for Signal Detection Using Random Matrix Theory," in *IEEEE 8th International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM), 2012,* pp.1-4, 21-23 Sept. 2012.

87. Rohitha Ujjinimatad, and Siddarama R Patil, "Signal Detection for Cognitive Radio networks using correlation of random data matrix," in *2012 IEEE National Conference on Computing and Communication Systems (NCCCS),* pp.1-5, 21-22 Nov. 2012.

88. Basavaraj. S. Mathapati, Dr. V. D. Mytri, "An Adaptive Energy Efficient Forwarding Routing Protocol for Wireless Sensor Network", *IEEE 2nd International Conference o*n *Information Management and Engineering (ICIME), China,* 16 April 2010, pp. 299-305.

89. Revansidda S K and Dr. Siddarama R Patil, "Compact ring coupled Rectangular Microstrip antenna with Slots" *Proc. of 3rd IETE Conference on RF & Wireless- 2010 ICON RFW-10),* 7-9 Oct 2010, IETE Bangalore Centre, Bangalore.

90. Basavaraj. S. Mathapati, Siddarama. R. Patil and V. D. Mytri, "MAC Protocol for Energy Efficient Forwarding Routing in Wireless Sensor Networks", *IEEE 4th International Conference on Computational Intelligence and Communication Networks (CICN 2012)*, 3-5 Nov 2012, Mathura, India.

91. Basavaraj. S. Mathapati, Siddarama. R. Patil and V. D. Mytri, "An Adaptive Energy Efficient Forwarding Data Aggregation and Qos Protocol for Wireless Sensor Networks", IEEE *International Conference on Emerging Technology Trends in Electronics, Communication and Networking*, 19th -21 Dec 2012, Surat, India.

92. Basavaraj. S. Mathapati, Siddarama. R. Patil and V. D. Mytri, "Energy Efficient reliable data aggregation technique for wireless sensor networks", Proceedings: Turing 100 – International conference on Computing Sciences, ICCS 2012, pp. 153-158

93. Basavaraj. S. Mathapati, Siddarama. R. Patil and V. D. Mytri, "A Cluster basedEnergy Efficient Reliable routing Protocol for wireless sensor networoks", Proceeding, IEEE International conference on Emerging Technology Trends in Electronics, Communication and Networking, Dec 19-21, 2012.

94. Siddarama R. Patil and Sant S. Pathak, "Signal Processing for LDPC Decoder Optimization," *Proc. IEEE International Conference on Signal and Image Processing, ICSIP-06*, Hubli, India, 7-9 Dec., 2006, pp 922-926.

95. Siddarama R. Patil and Sant S. Pathak, "On Convergence Behavior and Error Analysis of LDPC codes," *in Proc. International Conference on Next Generation Communication Systems, ICONGENCOM-06*, Allahabad, India, Dec. 9 –11, 2006, pp. 246-250.

96. Siddarama R. Patil and Sant S. Pathak, "Threshold Optimization for Reduced Complexity LDPC Decoding," *National Conference on Communications, NCC-2007,* Kanpur, India, 26-28 Jan. 2007, pp. 218-223.

97. Siddarama R. Patil and Sant S. Pathak, "Construction of Irregular LDPC Codes Based on Balanced Incomplete Block Designs," *IEEE Second International Conference on Industrial and Information Systems*, ICIIS 2007, University of Peradeniya, Sri Lanka, 9-11 August 2007, pp. 78-84.

98. Siddarama R. Patil and Sant S. Pathak, "Cycle Structure Analysis of LDPC Codes Constructed from Balanced Incomplete Block Design," *IEEE* INDICON 2007, Bangalore, India, 6-8 September 2007.

99. Siddarama R. Patil and Sant S. Pathak, "Construction of Regular and Irregular LDPC Codes using (n, {k_1, k_2},1) Block Design", *IEEE Int. Conf. on Signal Processing and Comm.*, Dubai, UAE, 24-27 November 2007, pp. 1555-1558.

100. Siddarama R. Patil and Sant S. Pathak, "Improved Performance Irregular Quasi-Cyclic LDPC Code Design from BIBD's using Threshold Minimization," in *IEEE TENCON 2008.*

Subjects taught at Postgraduate Level:

Advances In Digital Communications, Analog Communication, Multimedia Communication, Detection And Estimation, etc..

Subjects taught at Graduate Level:

Wireless Communications, Digital Communications, Analog Communications, Signal & Systems, Field Theory, Satellite Communication, Fiber-Optic Communication etc.

MOOCS CERTIFICATION COMPLETED
1. **Patent Drafting for Beginners (Jan Feb 2022)**
2. **Effective Engineering in Practice (Jan Feb 2022)**
3. **Outcome Based Pedagogie Principles for Effective Teaching (Feb-March 2022)**

● **Workshops/ Short-Term Courses/ Seminars Organized**

1. Organized " Three days Faculty development of Software Defined Radios and FEKO-Antenna Design and Simulation," TEQIP Sponsored by department of Electronics & Communication Engineering at Poojya Doddappa Appa College of Engg., Kalaburagi From 2nd Nov - 4th Nov. 2015.
2. Organized a faculty development program, TEQIP Sponsored by Department of Electronics & Communication Engineering at Poojya Doddappa Appa College of Engg., Kalaburagi From
3. Organized " One Week Faculty Development Program on Recent Advances in Communications and Signal Processing (RACSP)", TEQIP Sponsored by Department of Electronics & Communication Engineering at Poojya Doddappa Appa College of Engg., Kalaburagi From 21st Jan 25th Jan 2013.
4. Coordinated "Document Preparation for Research Publications" , Department of Electronics & Communication Engineering at Poojya Doddappa Appa College of Engg., Kalaburagi at April 02 to April 04, 2010.

● **Activities in Professional Associations**

Technical Services
1. Member Board of Examination (BOE), for evaluating the doctoral thesis entitled "Application of Medicine Neurological Examination and modeling Related to Diabetes", 2014, University of Kerela.
2. Member Board of Studies (BoS), Department of Telecommunication Engineering, SIT, Tumkur (Autonomous) for the year 2014
3. Nominated by Visvesvaraya Technological University to the Board of Studies (Telecommunication Engineering) of Siddaganga Institute of Technology, Tumakuru (Autonomous) from 07/07/2017 to 06/07/2019
4. External examiner for M. Tech (DSCE) project Viva-voce, JNTU, Hyderabad, 2011.
5. External examiner for M. Tech (DT) project Viva-voce, JNTU, Anantpur, 2010.
6. Member, BOS, Electronics and Communication Engineering, PDA College of Engineering, Kalaburagi for the academic year 2009.

7. Member, BoS, Electronics and Communication Engineering, Faculty of Engineering and Technology, Sharnbasva University, Kalaburagi for the year 2017-2018

8. Member BoE, VTU Belagavi, for academic year 2015-16

9. Subject Expert of Selection Committee for conduct of Interview for the selection of Professor/Asst. Prof./Lecturer in Electronics and Communication Engineering Department, Guru Nanak Dev Engineering College, Bidar on 17th June 2009.

10. Subject Expert for the recruitment process at Guru Nanak Dev Engineering College, Bidar on 20th July 2012.

11. Member, Programme Committee, International Conference on Communication, Computation, Control and Nanotechnology, October 29-30, Department of ECE, TCE and IT, Rural Engineering College, Bhalki.

12. Domain Expert, Doctoral Committee of Praveen Kumar Reddy, USN 5VY15PEJ75, Research Scholor for Ph.D. degree under the guidance of Dr. Baswaraj Gadgay

13. Domain Expert, Doctoral Committee of Sharnabasappa Shetkar, USN 5VY15PEJ05, Research Scholor for Ph.D. degree under the guidance of Dr. Baswaraj Gadgay

14. Domain Expert, Doctoral Committee of Thrivikram Bathini, USN 5VY15PEJ11, Research Scholor for Ph.D. degree under the guidance of Dr. Baswaraj Gadgay

15. Domain Expert, Doctoral Committee of Sagar Bhuyya, USN 5VY15PEJ89, Research Scholor for Ph.D. degree under the guidance of Dr. Baswaraj Gadgay

16. Domain Expert, Doctoral Committee of Sanjeev P Gogga, USN 3RB15PEJ06, Research Scholor for Ph.D. degree under the guidance of Dr. Sanjaykumar Gowre

17. Domain Expert, Doctoral Committee of Shruti H with USN 3RB16PEJ07, Research Scholar for Ph.D. degree under the guidance of Dr. Sanjaykumar Gowre.

18. Selection Committee member and subject expert in E&CE department on 22 July 2013 at Shetty Institute of Technology, Kalaburagi.

19. Member, Organizing Committee, One week Faculty Development Program on Performance Analysis of Computer Network organized by Department of Computer Science, Poojya Doddappa Appa College of Engineering, Gulbarga from 22nd to 26th 2014.

20. Member, Advisory Committee, First International Conference on Recent Innovations in Engineering and Technology from 11th to 13th November 2016 organized by Departments of Electronics and Communication Engineering, Civil and Mechanical Engineering, Bheemanna Khandre Institute of Technology, Bhalki.

21. Member, Advisory Committee, second national conference on"Recent Advances in Engineering and Technology" organized by Department of Electronics and Communication Engineering, Basavakalyan Engineering College, Basavakalyan on 27th and 28th May 2017.

22. Member, Advisory Committee, second national Conference on Recent Innovations in Engineering and Technology organized by Department of Electronics and Communication Engineering, Bheemanna Khaqndre Institute of Technology, Bhalki on 7th and 8th November 2015.

23. Member, Advisory Committee, One Week Faculty Development Program on Precision Engineering from 5th to 9th January 2015 organized by Mechanical Engineering Department, PDA College of Engineering, Kalaburagi.

24. Member, Advisory Committee, One Week FDP on "Applications of LabVIEW in Teaching and Research" Conducted by Industry Institution Interaction Cell under IQAC, Sharnbasva University, Kalaburagy from 17th to 22nd June 2019.

25. Member, Conference Advisory Committee, in A 3 Day International Conference on Recent Trends in Science, Engineering Business Studies Humaities and Social Sciences during 30th, 31st Aug and 1st September 2019 at Sharnbasva University, Kalaburagi.

● **Professional Honors, Awards and Fellowships**

Awards:

- Prof. K. Arumugam National Award for Innovative Work in Engineering and Technology for the year 2020 by Indian Society for Technical Education
- Best teacher award for the year 2014 at Poojya Doddappa Appa College of Engineering, Kalaburagi.
- Acknowledging and appreciating the admirable and exceptional contribution towards maintaining excellent academic environment in Poojya Doddappa Appa College of Engineering Gulbarga is recognized and awarded as the "Best Performing Teacher" for the academic year 2012-13.

Scholarships:

- QIP Scholarship – 2006-2009 during Ph. D at IIT, Kharapur
- QIP Scholarship – 1997-1999 during M. Tech. at IIT, Kharapur.
- Merit Scholarship – 1983-1989

Visits Abroad:

1. Srilanka : participated in the one day workshop on artificial intelligence and soft actuators in bio medical Engineering at the second International conference on industrial and Information Systems (ICIIS 2007) Held in the faculty of Engineering University of Peradeniya.

2. Thailand: Selected by MHRD, Government of India for Short term Indian faculty secondment to Asian Institute of Technology (AIT), Bangkok, Thailand as a visiting professor for the academic year 2019-20. This will help in working with international faculty and also helps in branding our education system abroad

● **Administrative**
   University/NBA assignments:

1. Member of NBA Expert Visiting Committee.
2. Member of Board of Examiners, VTU Gulbarga Region, for the academic year 2015-16.
3. Member of LIC committee, VTU Belagavi, for the academic year 2015-16.
4. Member of LIC Committee, VTU Belagavi for the academic year 2017-18

College assignments:

1. Chairperson of BoS and BoE committee for Electronics and Communication Engineering Department for the academic year 2012-13, 2013-14, 2014-15, 2015-16, 2016-2017, 2017-2018.
2. Member of the Building Committee as Representative of Administration, formed for submitting application for Construction of Buildings under the scheme of Development Assistance to the College for Construction of Buildings to the University Grants Commission, Government of India, New Delhi during 2014-15
3. BoS and BoE committee member for the academic year 2010-11 and 2011-12

4. Deputy Chief Superintendent for UG/PG autonomous theory examination, 2013 at PDA College of Engibneering, Gulbarga.
5. Screening committee member for the year 2012-13.
6. Scrutiny member for change of branch for the academic year 2011-12.
7. Advisory Committee member for the academic year 2012-13.
8. Member, Academic Council for the academic year 2014-15
9. Co-ordinated in "Technovision -2003 Project Exhibition" held by Poojya Doddappa Appa College of Engineering, Kalaburagi held on 12 May 2003.
10. Monitoring committee Member, New Age Incubation Network Poojya Doddappa Appa College of Engineering, PDACEG -2015-2020
11. Member BoG TEQIP-II, PDA College of Engineering, Kalaburagi for 2016, 2017
12. Academic Council Member, PDA College of Engineering, Kalaburagi since 2012

- **Community Service**

1. Member, Tender Technical and Booklet Committee, Police Commissioner Office, Kalaburagi for the tender COP/KLB/STORES/08/2020-21 dated 26/03/2021

2. Certificate of Appreciation for Conducting blood donation camp every year since 2013 to 2018 as part of NIRVAN, a techno-cultural mega event in PDA College of Engineering Kalaburagi.

3. Resource person for the STTP programme on "Sustainable Development Through Green Energy Technologies" at Government Women's Pluytehcnic, Kalaburagi on 11-01-2015

4. Received letter of appreciation from President HKE Society Gulbarga for the efforts put in during the Golden Alumni Meet on 6th February, 2010 and expressed heartiest thanks.

5. Worked as Assistant Returning Officer, for the conduction of HKE Society Election during February/March 2015.

6. Worked as Assistant Returning Officer, for the conduction of HKE Society Election during February/March 2018

7. Coordinator, Invitation and Reception Committee, NIRVANA-2016" from 18th to 20th March 2016 at PDA College of Engineering, Kalaburagi.

● **Courses/seminars/conferences/Workshops/Symposiums attended**

1. Participated in the workshop on "Outcome Based Education" on January 6, 2015 as part of the Pre-Conference activity of International Conference on Transformations in Engineering Education 2015, (ICTIEE-2015) jointly by BMS College of Engineering and Indo-US Collaboration for Engineering Education (IUCEE).

2. TEQIP – II Sponsored One Week Faculty Development Program on " Precision Engineering" from 5th to 9th January 2015 organized by Department of Mechanical Engineering, PDA College of Engineering, Kalabuaragi.

3. TEQIP – II Sponsored One Week Faculty Development Program on " Hands on Training Program on MATLAB and its Applications in Digital Image Processing and Pattern Reorganization" from 13th to 17th October 2014 organized by Department of Information Science & Engineering, PDA College of Engineering, Kalabuaragi.

4. TEQIP Sponsored One Week Faculty Development Program on "Performance Analysis of Computer Network" from 26th to 26th September 2015 organized by Department of Computer Science & Engineering, PDA College of Engineering, Kalabuaragi.

5. Attended training program on "Accreditation process as pee January format at NBA" at PESIT, banglore from 9th to 11th May 2013.

6. Attended Workshop for "Progress review and Accelerating Implementation of TEQIP –II" organized by SPFU-Banglore at Dr. AIT, Banglore on 8th and 9th November 2012.

7. Attended a program related to Academic at J C College of Engineering, Mysore on 11th and 12th April 2012 under TEQIP-II.

8. Participated in A One day Workshop on "SWOT Analysis and Institutional Developmental Plan" Held for principals of Government Engineering and Polytechnics in BMS College of Engineering, Bangalore on 12th November 2013.

9. Participated in "Management Capacity Enhancement Programme for Administrative Heads of Higher Education Institutions" conducted by Indian Institute of Management, Bangalore during March 11 – 23, 2013.

10. Presented a paper entitled "Energy Efficient Reliable Data Aggregation Technique for Wireless Sensor Networks" in Turing 100 International Conference on Computing Sciences held during 14th – 15th September 2012 organized by Lovely Professional University, Phagwara, Punjab, India.

11. Participated in One day workshop, specially arranged to review and redesign academic action plan for the academic year 2012-2013 on Monday 2nd April 2012 at Smt. V. G. Women's College, Gulbarga.

12. Attended "National Level Seminar on "Recent Trends in wireless networks" Organized by Department of Electronics and Communication Engineering, Guru Nanak Dev Engineering College, Bidar from 30th October to 31st October 2009.

13. participated in the one day workshop on "artificial intelligence and soft actuators in bio medical Engineering at the second International conference on industrial and Information Systems (ICIIS 2007)" Held in the faculty of Engineering University of Peradeniya, Srilanka on 8th August 2007.

14. Presented a paper entitled "On Convergence Behavior and Error Analysis of LPDC codes" in International Conference on Next Generation Communication Systems: A Perspective, ICONGENCOM-2006, organized by J. K. Institute of Applied Physics & Technology, University of Allahabad, Allahabad, India.

15. Presented technical paper titled "Signal Processing for LPDC Decoder Optimization" in IEEE international Conference on Signal and Image Processing (ICSIP) – 2006 organized by BVB College of Engineering & Technology, Hubli in association with IEEE Bangalore Section held during 7th to 9th December 2006.

16. Short Term Course on "Synthesis and Fabrication of nanoceramics and components and their industrial applications" during January 16 – 27, 2006 at Indian Institute of technology, Karagpur.

17. ISTE Sponsored Short Term Training Programme on "Numerical Linear Algebra" held during November 29 – December 10, 2004 at Department of Mathematics, Indian Institute of technology, Madras.

18. AICTE & ISTE Sponsored Short Term Training Program on "Neuro-Fuzzy Based Industrial Automation" conducted two weeks from 15-03-2004, Kongu Engineering College, Perunduri, Erode – 638052, Tamilnadu.

19. AICTE & ISTE Sponsored Two-Week Short Term Training Program Programming on "Internetworking" organized by the Department of Electronics & Communication Engineering, JNTU college of Engineering, Hyderabad, During 21st January – 2nd February 2002.

20. AICTE and ISTE Sponsored Summer School Course in "Campus Wide Networking" from 17th June to 30th June 2001 Organized by Department of Computer Engineering, Vishwakarma Institute of Technology, Pune, India.

21. QIP short term course on "image and Video Processing for Multimedia Applications" during 19th to 30th November 2001 at Indian Institute of Technology, Kharagpur.

22. AICTE-ISTE Sponsored summer school on "VLSI Design" held at Rural Engineering College, Bhalki from 31-3-2001 to 11-04-2001.

23. Attended the National Level Workshop on "VLSI & CAD for VLSI" from 4th to 9th September 2000 organized by Industrial Consultancy & Research Centre (ICRC) of BIT.

24. AICTE-ISTE Sponsored summer school on "Advanced Communication" held at Rural Engineering College, Bhalki from 15-3-2000 to 26-03-2000.

25. ISTE-XXIX Annual Convention & national Seminar on "Management of Technical Education in the 21st Century" held during December 10-12, 1999 at kongu Engineering College, Perundurai, Erode.

26. AICTE Intensive Short term course on "Signal Processing and Image Processing" From February 9-10, 1998 at Indian Institute of Science, Banglore.

27. ISTE Sponsored Short-term course on "Communication Control and Networking" from August 4-16, 1997 at MITS, Gwalior.

28. AICTE Sponsored Short term course on "Essential Mathematics for Engineers" from January 6th to 10th 1997 at Indian Institute of Technology, Madras.

29. Short Term Refresher course in PCB Technology involving theory and laboratory organized by the Printed Circuit Broad Laboratory. Centre for Electronics Design and Technology, Indian Institute of Science, Bangalore from 13-02-1995 to 25-02-1995.

30. Short-Term Tutorial Programme on " Electronic design, PCB Making & Product Development" from 30th January 1994 to 1st February 1994 organized by Department of Electronics & Communication Engineering, Poojya Doddappa Appa College of Engineering, Kalaburagi.

31. Impact Program on "Interconnections" from February 8 – April 1, 1994 at Indian Institute of Science, Bangalore.

32. ISTE Sponsored winter school on "Design and Fabrication of Printed Circuit Board" from 27th January to 7th February 1993 organized by Dept. of Instrumentation Technology, Poojya Doddappa Appa College of Engineering, Kalaburagi.

33. ISTE Sponsored Summer School on "Recent Trends in Communication Systems" from 2nd June to 4th February 1992 at MREC, Jaipur.

34. Participated in 'FEEL Teacher' Learning and Development Intervention, organized by HKE Society, Gulbarga and conducted by CLHRD, Mangalore at HKES's S. Nijalingappa Institute of Dental Sciences and Research, Gulbarga from 12 through 14 December 2014.

● Invited Lectures/ Seminars/chairperson:

1. Special Lecture for 5th Batch Wireless Probationary PSI's of PTC from Dec 2020 to Jan 2021 at Police Training College Kalburagi

2. Session Chair at three day IEEE International Conference for Emerging Technology (INCET 2020), Jain College of Engineering, Belagavi, Karnataka during 5th to 7th June 2020.

3. Obe workshop two times at VTU get information from mail

4. Chair person for "Recent Innovations in Engineering and Technology" (NCRIET-2015), organized by department of electronics and communication Engineering held on 7th and 8th November 2015 at Bheemanna Khandre Institute of Technology, Bhalki.

5. Resource person in two weeks short term training program on "sustainable development through green energy technologies", at Government women polytechnic, Kalaburagi from 05-01-2015 to 14-01-2015. Delivered a talk on "Technology Advancement in LED's qnd Zig Bee's for smart Lighting on 11-01-2015.

6. Chair person for "National Conference on Recent Advances in Science & Technology" held during 22nd and 23rd March 2014 at Bheemanna Khandre Institute of Technology, Bhalki.

7. Invited Talk during VTU-VGST Sponsored Four Days Faculty Development Programme on "Future Research Trends & Innovations in Information, Communication and Technology", on 8th May 2014, at Bheemanna Khandre Institute of Technology, Bhalki.

8. Invited lecturer for two days Faculty Development Programme, organized by Department of Electronics & Communications Enginnering, Appa Institute of Engineering & Technology College, Kalaburgi.

9. Invited lecturer for the faculty development program "Recent trends in Communication Engineering", Department of Electronics and Communication, Siddaganga Institute of Technology, Tumkur on 24-01-2014.

10. Invited talk in Four Days Faculty Development Program on "Role of Teachers : Challenges & Opportunities in Technology" , jointly organized by, VTU Regional Office, Kalaburagi in association with Vision Group of Science & Technology (VGST), a Govt. Karnataka from 7th to 10th May 2014.

11. Invited speaker on "World Telecommunication and Information Society Day" for "ICTs and Improving Road Safety", at Visvesvaraya Bhavan, Institution of Engineers, Gulbarga, Friday 17th May 2013.

12. Judge for the technical paper presentation organized by ISTE Chapter REC, Bhalki under Techno Utsav'10 on 06-05-2010.

13. Judge for electronics fair for polytechnic & ITI students in District Science Centre, Kalburagi on 19-20 February 2010.

14. Presented a seminar in One Week Faculty Development Program on Recent Advances in Communications and Signal Processing (RACSP)", TEQIP Sponsored organized by department of Electronics & Communication Engineering at Poojya Doddappa Appa College of Engg., Kalaburagi From 21st Jan 25th Jan 2013.

15. Chair person for "International Conference on Communication, Computation, Control and Nanotechnology" held during October 29-30, 2010 at rural engineering college, Bhalki, Karanataka.

16. Delivered expert talk on "Information Theory and Coding" during ISTE Sponsored two days National Workshop on "Recent Advances in Communication" on 6th August 2010, at Rural Engineering College, Bhalki.

17. Resource Person for the workshop on "Attainment of Course Outcome and Program Outcome in Engineering Education" on 27/01/2018 at Khaja Banda Nawaz College of Engineering, Gulbarga.

18. Resource person for the STTP two weeks program on "Educational Measurement, Evaluation, and Accreditation" from 11-07-2017 to 14-07-2017 at Government Plytechnic, Raichur.

19. Conducted two days workshop on "Outcome Based Education (OBE)" on 14th and 15th March 2018 organized by NPIU new Delhi at Bundelkhand Institute of Engineering and Technology Jhansi.

20. Delivered an Expert Lecture in the Faculty Development Programme on 'Pedagogical Approaches in Science, Technology, Engineering and Management' organized by Department of Applied Sciences, Humanities and Management, Bundelkhand Institute of Engineering and Technology Jhansi (UP) during October 04-08, 2018 held under the aegis of TEQIP-III.

21. Chief Guest and key note speaker for the workshop on "Research Trends in Electronics and Communication Engineering" during 21st and 22nd August 2009 at Sri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad.

22. Chief Guest and invited speaker for the National Conference on "Recent Trends in Management and Technology" organized by Department of MBA and MCA during April 5th and 6th 2013 at Bheemanna Khandre Institute of Technologym, Bhalki.

23. Session Chair for the international conference on "Communications, Computation, Control and Nanotechnology" during October 29-30 2010 at Rural Engineering College, Bhalki.

24. Presented a talk in the One Week State Level Faculty Development Profram on "Effective Teaching, Learning and Rese3arch skills towards Global Standards" from 19th to 24th July 2016 Jointly organized by Appa Institute of Engineering College, Godutai Engineering College for Women and Sharanabasaveshwara Science College PG Course Kalaburagi.

25. Presented a talk in the webinar organized by Sharnbasva University on "NEP-2020 Higher Education" on 11/11/2020. More than 200 participated in the webinar.

26. Program Co-Chair, International Conference on Current Research and Applications in Electrical Science – ICCRAES – 16 from October, 4th and 5th 2016, Organized by Electrical Science Group under TEQIP-II, PDA College of Engineering, Kalaburagi.

27. Resource person in One day workshop on IEEE Explore and Knimbus E-Library resources on 11th March 2017, PDACEK in collaboration with IEEE and GIST.

28. Resource Person, National Level Workshop on "Recent Research Trends in Communication and Networking" on 15th and 16th March, 2013, organized by Department of Electronics and Communication Engineeringm Bheemanna Khandre Institute of Technology, Bhalki.

29. Invited talk at National Conference on Recent Innovations in Informationm Communication Technology, and Management held at VTU Postgraduate Centre and Regional Office, Kalaburagi on 21-22 May 2015.

30. Delivered a lecture on "Digital Communication" as Guest Lecture on 12th March 2012.

31. Resource person to deliver a talk on "Accreditation and Excellence in Technical Institutions" in two weeks National Level Faculty Orientation Programme (FOP-2016) held during the period from 1st – 10th July 2016 at Bheemanna Khandre Institute of Technology, Bhalki.

32. Delivered a talk during VTU-VGST sponsored Four Days Faculty Development Programme on 'Future Research Trends and Innovations in Information, Communication & Technology' on 8th May 2014 at Bheemanna Khandre Institute of Technologym Bhalki.

33. Jury Member for the event Kaleidoscope (Paper Presentation) on 11 March 2011 for "PRAYAAS" a two days tech fest organized by Computer Science Engineering and Information Science Engineering Departments of Appa Institute of Engineering and Technology, Gulbarga.

34. Session Chair in TWO days International Conference on Internet of Things (IConIoT-2k17), 28th February to 1st March 2017, Jointly organized by Sharnabasaveswara Vidyavardhaka Sangha Appa IET, GWEC, LAIE and VNIE Kalaburagi, Karnataka India.

● Ph. D Supervision

(Research Centre : Department of Electronics and Communication Engineering, PDA College of Engg., Kalaburagi Under Visvesvaraya Technology University, Belagavi, Karnataka, India)

Sl. No.	Name of the Student	Year of Registration	Research Topic	Status
1.	Soumya Peddi	2011	Handover Techniques over media Independent Heterogeneous Wireless Networks	Thesis Submitted
2.	Revansiddappa	2012	Design and development of compact and multi resonant micro strip antennas for wireless applications	Writing Thesis
3.	Umesh Chauvan	2014	VLSI Circuit Design	Thesis Submitted
4.	Kailas Patil	2015	Spectrum Sharing in cognitive radio	Comprehensive Viva Completed

5.	Snehalatha	2015	Image Processing	Comprehensive Viva Completed