

## BIO DATA(APPLICANT)

1. Name : **Dr. SANTHOSH KUMAR K B**
2. Date of Birth : **10-05-1989**
3. Highest Qualifications : **BE, M.Tech, (PhD)**
4. Date of Joining : **09/09/2014**
5. Status on Joining Date : **Assistant Professor Stage I**
6. Status as on today : **Assistant Professor Stage II**



### 7. Academic Performance:

Qualifications	Board / IIT / University	Institute and place where studied	Year of passing
<b>S.S.L.C</b>	KSEEB Karnataka	SSRHS - Tumkur	2004
<b>P.U.C</b>	PUCB Karnataka	Sarvodaya P U College Tumkur	2006
<b>B.E.</b>	VTU, Belgaum	Sri Siddhartha Institute of Technology, Tumkur	2010
<b>M.Tech.</b>	VTU, Belgaum	Maland College of Engineering, Hassan	2013
<b>Ph.D</b>	VTU, Belgaum	Pursuing Ph.D under the guidance of Dr. B R Sujatha, Professor and Head, ECE, MCE, Hassan	Open Seminar 2 Completed
<b>Research Interest</b>		Bio-Medical Signal Processing and Communication	
<b>Membership</b>		<ul style="list-style-type: none"><li>• International Association of Engineers-<b>IAENG</b></li><li>• Institute For Engineering Research and Publication-<b>IFERP</b></li></ul>	

<b>Teaching Experience</b>	<b>10 years</b>
<b>Address for Communication</b>	<b>Dr. Santhosh Kumar K B,</b> Assistant Professor, Dept. of E & C, Malnad College of Engineering, Hassan, Karnataka-573202 e-mail: <a href="mailto:kbs@mcehassan.ac.in">kbs@mcehassan.ac.in</a> , <a href="mailto:santu.kbs@gmail.com">santu.kbs@gmail.com</a> Mobile: <b>9740580160</b>

#### **Administrative Activities:-**

- Internal DCS at SBIT – Tiptur during 2014 June-July Exam.
- Faculty Advisor
- NBA work
- AICTE online survey work
- Anti-ragging committee
- M.Tech Contineo coordinator
- Department news letter editor
- PMKVY Coordinator

#### **National Conference:**

- A paper titled "**Multipath Routing for Distributed Networks**", has been presented and published in the proceeding of NCACA-2013 organized by SSIT, Marlur, Tumkur on 16th and 17th May 2013.
- A paper titled "Double Huffman Coding Based EEG Signal Compression", has been presented and published in the proceeding of National Conference on Emerging Trends in Wireless Communication and Signal Processing held on 17th and 18th March 2017 organized by N.M.A.M. Institute of Technology, Nitte, Udupi Dist.

#### **International Conference:**

1. Santhosh Kumar K B and B R Sujatha, "Reliable Transmission of EEG Signal In Tele-Medicine", Proceedings of IRAJ International Conference, 7<sup>th</sup> May 2020, Bengaluru, India, pp 54-58.
2. Santhosh Kumar K B and B R Sujatha, "Turbo Codes for Telemedicine Applications", Proceedings of First International Conference on Advances in Physical Sciences and Materials (ICAPSM 2020) to be held at SNS College of Technology, Coimbatore, Tamil Nadu, India during 13- 14, August 2020, pp 395-402.
3. Santhosh Kumar K B and B R Sujatha, "Reliable Transmission of EMG Signal in Telemedicine for Myopathy Patients", Proceedings of third International Conference on Soft Computing and Signal Processing-2020 held

at Malla Reddy College of Engineering and Technology, Hyderabad, India during 21-22 August 2020.

### **Scopus Indexed Journals:**

1. Santhosh Kumar K B, B R Sujatha (2020) “Reliable Transmission of EEG Signal In Tele-Medicine”. International Journal of Advanced Science and Technology, Vol. 29 No. 10s (2020), 1<sup>st</sup> June 2020, pp-8687-8694.
2. Santhosh Kumar K B, B R Sujatha, “Turbo Codes for Telemedicine Applications”, Journal of Physics: Conference Series, Volume 1706(2020) 012156, <https://doi.org/10.1088/1742-6596/1706/1/012156>.
3. Santhosh Kumar K B and B R Sujatha, “Reliable Transmission of EMG Signal in Telemedicine for Myopathy Patients”, Soft Computing and Signal Processing, Advances in Intelligent Systems and Computing 1340, [https://doi.org/10.1007/978-981-16-1249-7\\_51](https://doi.org/10.1007/978-981-16-1249-7_51), pp-541-551. (Springer e-book).
4. Santhosh Kumar K B and B R Sujatha, “Low area FPGA Implementation of Secure MIMO OFDM based Wireless ECG Signal Transmission”, International Journal of Inventive Engineering and Science, Vol.14, No.4, 2021 <https://doi.org/10.22266/ijies2021.0831.06>, pp 55-65.

### **SCI indexed journal:**

1. K. B. Santhosh Kumar & B. R. Sujatha, FPGA Design of an Efficient EEG Signal Transmission Through 5G Wireless Network Using Optimized Pilot Based Channel Estimation: A Telemedicine Application. Wireless Personal Communications (2021), Springer Publication. <https://doi.org/10.1007/s11277-021-09305-2>.

### **Workshops/FDPs Conducted:**

- One day work shop on VIRTUAL Lab held on 16th February 2017 at MCE Hassan.
- Two days work shop on Hands on Training on Internet of Things held on 5th and 6th of March 2017 at MCE Hassan.
- Two days work shop on Hands on Internet of Things for Real Time Applications held on 16th February 2017 at MCE Hassan.
- Three days workshop on Image Processing and Pattern Recognition Techniques from 24th to 26th of March 2017.
- One week Faculty Development Programme on Recent MEMS & MOEMS held during 30th April and 04th May, 2018 at Malnad College Engineering, Hassan under TEQIP III in association with IEEE Photonic society Bangalore Chapter.
- One Day Workshop on IoT Board Design on January 10<sup>th</sup> 2018.
- One day workshop on “**Research Orientation Using Virtual Labs**” organized by Department of Electronics and Communication, at Malnad College of Engineering, Hassan on 5<sup>th</sup> October, 2018.

- Three days workshop on Hands-on Training on Photonic Sensor Simulation Tools from 3rd to 5th October 2019.
- Two days workshop on Automotive Electronics from 12th to 13th October 2019.

**Workshop/FDPs Attended:**

1. Workshop on **“Two days hands on training on DSP TMS320C6713”** organized by Department of Telecommunication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru, on 21st and 22nd March 2016.
2. TEQIP-II sponsored one week FDP on **“Feel Teacher”**, held from 06<sup>th</sup> June to 11<sup>th</sup> June 2016, organized at Malnad College of Engineering, Hassan.
3. TEQIP-II and SPFU sponsored one week faculty development programme on **“Pedagogical Training Programme”** organized by MCE, Hassan, held during 11<sup>th</sup> to 15<sup>th</sup> July, 2016.
4. Workshop on **“Advanced simulation using MATLAB”** held during 18-23 July, 2016 organized by Dept. of E & C, St. Joseph Engineering College, Vamanjoor, Mangalore.
5. Workshop on **“Faculty-Mentors on Induction Programme for New Students”** organized by Government Engineering College, Raipur during 4<sup>th</sup> to 6<sup>th</sup> Sept 2017.
6. One day Workshop on **“VLSI and SOC Design for Enhancing Research and Job Opportunities”** from 28th to 29th Jan 2017.
7. Two days workshop on **“Sensor Design and Implementation”** from 4th & 5th Feb 2017.
8. Two days workshop on **“Hands on Training on Internet of Things”** from 5th & 6th march 2017.
9. One day workshop on **“MOEMS and Applications” on 18<sup>th</sup> march 2017.**
10. Two day workshop on **“Hands on training on Cadence VLSI design tool”** from 18<sup>th</sup> and 19<sup>th</sup> march 2017.
11. One day workshop on **“High Speed Optical Networks” on 21<sup>th</sup> march 2017.**
12. One day workshop on **“ANTENNA DESIGN USING HFSS EM SIMULATOR”** on 25<sup>th</sup> march 2017.
13. One day workshop on Shramadana Programme from 29th October 2017 at Dept. of Mechanical Engineering, MCE Hassan.
14. One week NSS workshop on Reach Out Success from 4th to 8th April 2018 at Dept. of Mechanical Engineering, MCE Hassan.
15. Two days workshop on Professional and Personality Development Programme(PPDP-18) from 27th to 28th April 2018 at Dept. of Mechanical Engineering, MCE Hassan.
16. Five days FDP on **Computational Real time Analysis of systems using MATLAB and XILINX** from 16 to 20 July 2018 at MCE Hassan.
17. One week FDP on **Machine Learning** at MCE Hassan.

18. One week **FDP on Total Quality Management** from 28th May to 1st June at MCE Hassan.
19. One week FDP on **Recent development in solar** and wind energy from 13th to 17th July 2018 at MCE Hassan.
20. Two days **FDP on OBE** from 4th to 5th Aug 2018 at MCE Hassan.
21. Three days workshop on Hands-on Training on Photonic Sensor Simulation Tools from 3rd to 5th October 2019 at MCE Hassan.
22. One day work shop on FEEL Teacher- Developing, Counseling, Mentoring on 2nd November 2019 at MCE Hassan.
23. One day work shop on Applications of Probability in Engineering on 5th November 2019 at MCE Hassan.
24. Two weeks AICTE sponsored Faculty Development programme on Green, Smart, 5G Technologies at Dept. of ECE, MCE Hassan on 9<sup>th</sup> to 21<sup>st</sup> December 2019.
25. AICTE Sponsored Six Days Online Short Term Training Program (STTP) “TECHNICAL WRITING & RESEARCH METHODOLOGY” held on December 28, 2020– January 03, 2021 organized by Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology, Proddatur, in association with All India Council for Technical Education (AICTE).
26. Participating and successfully completing six days (one week) AICTE sponsored Phase 2 of online Short-Term Training Program (STTP) on the title “Creating Smart and Green Society through Advance Technology of Green Energy” Held during 17th – 22nd December, 2020 at Malnad College of Engineering, Hassan, Karnataka.
27. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Wearable Devices" from 2020-11-30 to 2020-12-4 at Karunya Institute of Technology and Sciences.
28. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Telemedicine" from 2020-9-14 to 2020-9-18 at R.M.K. Engineering College.
29. Five Day Online Faculty Development Program on “Research Opportunities in Signal Processing” held from 13th to 17th July 2020 organized by the Department of Electronics and Communication Engineering, VVCE, Mysuru.
30. Participated in AICTE Sponsored One Week Online Short-Term Training Programme (STTP-II) on “Advances in Wireless Technologies and Telecommunication” organized by Department of Electronics and Communication Engineering, Geethanjali College of Engineering and Technology, during August 17-22, 2020.
31. Participated in AICTE Sponsored One Week Online Short-Term Training Programme (STTP-III) on “Advances in Wireless Technologies and Telecommunication” organized by Department of Electronics and Communication Engineering, Geethanjali College of Engineering and Technology, during August 31- September 5, 2020.

32. Successfully completed Five-Day Faculty Development Program on “Recent Advances in Photonics Technology” organized by Department of Electronics and Communication Engineering, Vidyavardhaka College of Engineering, Mysuru in association with IEEE Photonics Society, Prakash Bharathi from 7th to 11th September 2020.
33. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Computer Science & Biology" from 2021-1-19 to 2021-1-23 at Malnad College of Engineering.
34. Participated in Two day workshop on “Biomedical Signal Acquisition and Analysis”, organised by the Department of Electronics and Instrumentation, SJCE , JSS S&TU, Mysuru, from 26th-27th August 2020, under TEQIP Phase III.
35. Participated in Two week AICTE Sponsored FDP on “System on Chip Design-Basic to Developments of Chips” from 16<sup>th</sup> -28<sup>th</sup> November, 2020.
36. One Week Online Faculty Development Program on “Research Avenues in Healthcare Technology” organized by the Department of Electronics and Instrumentation during 21st to 25th of July 2020 under TEQIP Phase III.
37. Five days FDP on “Signal Processing: Opportunities and Trends 2020” held at Department of Electronics and Communication Engineering, S.D.M. College of Engineering and Technology, Dharwad from 04.08.2020 to 08.08.2020.
38. Participated & completed successfully AICTE Sponsored Two Week Faculty Development Programme (FDP) on “Hands on Project-Based Approach for Biomedical Signal Analysis using MATLAB” (Phase-II online) organized by the Department of Electronics and Communication Engineering at Kakatiya Institute of Technology & Science, Warangal, Telangana during 01.02.2021-13.02.2021.
39. Participated in the online Faculty Development Program on “Advances in Signal Processing and Wireless Communication” organized by the Department of Electronics and Communication Engineering, Rajeev Institute of Technology, Hassan from 24 – 29 August 2020.
40. Participated in the National level FDP on “Emerging Trends in Automotive Embedded Systems” held during 12<sup>th</sup> to 14<sup>th</sup> August 2020, organized by the Department of Electronics and Communication Engineering, Bangalore Institute of Technology (BIT), in association with Robert Bosch Engineering and Business Solutions (RBEI) & Training and Placements Center, BIT.
41. Attended the one week STTP on Computational Techniques, organized by Department of Electronics and Communication, Sagar Institute of Research and Technology, Bhopal from 02nd - 07th November 2020.
42. Attended the 5 days online workshop on Research Related Solutions for Faculty and Research Scholars organized by Department of Electronics Engineering, Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi in collaboration with IEEE-UP Section from 31 January to 4 February 2022.
43. Participated in National Level Faculty Development Programme on “Application of Innovative Soft Tools and Techniques in Research” conducted

by Department of IT, Vivekanandha College of Technology for Women, Tiruchengode in association with Computer Society of India and Institution's Innovation Council on 25th Feb,2022.

44. Participated in the faculty development program on Artificial Intelligence, Robotics and Automation organised by Central School of Automation organised by Banasthali Vidyapith from 9 to 14, March 2022.
45. Participated in the faculty development program on Intelligent Computing and Communication organised by Central School of Automation organised by Banasthali Vidyapith from 21 to 26, March 2022.
46. Participated in the workshop on Research Related Solutions for Faculty and Research Scholars via online mode from 31 January 2022 4 February 2022 organised by Department of Computer Science and Engineering and Department of Electronics Engineering comma Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, collaboration with IEEE UP section.
47. Participated in the faculty development program on Innovation and Research Trends in Artificial Intelligence, organised by Central School of Automation organised by Banasthali Vidyapith from 21 to 26, February 2022.

### **International Conferences Attended**

1. A paper titled "Double Huffman Coding Based EEG Signal Compression", has been presented and published in the proceeding of National Conference on Emerging Trends in Wireless Communication and Signal Processing held on 17th and 18th March 2017 organized by N.M.A.M. Institute of Technology, Nitte, Udipi Dist.
2. Santhosh Kumar K B and B R Sujatha, "Reliable Transmission of EEG Signal in Tele-Medicine", Proceedings of IRAJ International Conference, 7<sup>th</sup> May 2020, Bengaluru, India.
3. Santhosh Kumar K B and B R Sujatha, "Turbo Codes for Telemedicine Applications", Proceedings of First International Conference on Advances in Physical Sciences and Materials (ICAPSM 2020) to be held at SNS College of Technology, Coimbatore, Tamil Nadu, India during 13- 14, August 2020.
4. K. B. Santhosh Kumar and B. R. Sujatha, "Reliable Transmission of EMG Signals in Telemedicine for Myopathy Patients", Proceedings of third International Conference on Soft Computing and Signal Processing-2020 held at Malla Reddy College of Engineering and Technology, Hyderabad, India during 21-22 August 2020 pp. 541-552.

### **Webinars Attended**

- ✓ Participated in webinar series on "Telemedicine, IOT and Nano Science" organized by GSSSIETW IEEE Student Branch in Association with IEEE Bangalore and IEEE CAS Bangalore Chapter during 10<sup>th</sup> to 12<sup>th</sup> June 2020.

**(SANTHOSH KUMAR K B)**