


K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

Faculty Name	JAYASUDHA B S K	
Designation	Asst. professor	
Educational Qualification	M.Tech(Ph.D)	
Experience in Years	Teaching: 16 years	
Areas of Interest	Signal Processing, Embedded systems, Biomedical Engineering	
E-mail	jayasudhavijay@ieee.org	

Educational Details

Examination/ Degree	College / University	Year of Passing
UG	PES College of Engineering, Mandya, India	2003
PG	JC College of Engineering, Mysore, India	2010
PhD	Ph.D in signal processing domain from Visvesvaraya Technological University, India.	Pursuing since 2017

Publications

Journal Publications:

1. Jayasudha B SK, Anagha Kashyap, Anusha, Rachana, Sahana v, "Machine learning techniques for cardiovascular score prediction – A review" International Research Journal of Engineering and Technology, Vol.08, No. 01, pp: 1792 - 1798, 2020, e-ISSN: 2395-0056, Impact Factor: 7.529, ISO 9001: 2008 Certified Journal.
2. Jayasudha B SK, Apeksha, Lekha Yadav, Divya, "Precision agriculture - A review on its techniques and technologies", International Research Journal of Modernization in Engineering Technology and Science, Vol.02, No. 09, pp: 1326 - 1332, 2020 eISSN: 2582-5208, Impact Factor: 5.354.
3. Jayasudha B SK, Sahana K G, Sahana, Madhu G, "Implementation of off Hospital Rural and Urban Public Access Defibrillator", Perspectives in Communication Embedded- systems and Signal Processing, Vol.4, No.6, pp: 229-233, 2020, ISSN: 2566-932X.
4. Jayasudha B SK, Aaliya Zainab, Sneha "A Survey on Detection of Ventricular Fibrillation using Wavelet Analysis", International Research Journal of Engineering and Technology, Vol.07, No. 06, pp.1 -3, 2020, ISSN: 2395-0072, Impact Factor: 7.59
5. Arpitha N V, Abhishek S Gowda, Akshaya Ram Badala, Chethan N Shetty, Jayasudha BSK, "CERES- An Autonomous and Versatile Agriculture Robot", International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, Volume 7 Issue IV, Apr 2019.

6. Pragna Naidu, Praveen Mahabala, Jayasudha B S K, "Ecology Monitoring", Journal of Emerging Technologies and Innovative Research JETIR April 2019, Volume 6, Issue 4 | ISSN-2349-5162.

7. Pragna Naidu, Praveen Mahabala, Jayasudha B S K, "Forest Monitoring", Journal of Emerging Technologies and Innovative Research JETIR April 2019, Volume 9, Issue | ISSN-2349-5162.

8. Pragna Naidu, Praveen Mahabala, Jayasudha B S K, "Women Safety Devices and Applications", International Journal of Engineering Research & Technology (IJERT) Vol 7 Issue, July-2018 | ISSN:2278-0181.

9. S Navya Sri, Pooja R, Sumithra B, Sushma S N, Jayasudha B S K, "SENSOVISION - An Aid for the Visually Impaired", International Journal of Engineering Research and Technology (IJERT), Vol. 4, No. 22, 2016, pp. 76-79, ISSN: 2278-0181 | ISSN: 0974-3154.

Conference Papers:

1. Manisha Jayson, Manikanta S Rao, Joshna J G, Jayasudha B S K, "Wearable health monitoring technologies and devices-A wide angle view" NCR T A E E E, 10th-12th May 2017.

2. Daiva Prasad S, Kavitha S, Chaitra K R, Vijay Kumar CK, Jayasudha B S K, "Wireless Nano sensor based health monitoring device and development of Mobile Phone App" NCR T A E E E, 10th-12th May 2017.

3. Kishan, Jayasudha B S K "Bank Locker Security System based on RFID and GSM technology" National Conference on Recent Trends & Applications In Electrical & Electronics Engineering, K.S. Institute of Technology, Bangalore, 10th-12th May 2017, pp.225-230, ISBN: 97881-929425-0-6.

4. Jayasudha B S K, P.N. Sudha "PCG acquisition and analysis for detection of cardiac failures at early stages" International Conference On Bioengineering On Health And Environment (ICBHE'17) 08th-10th January 2018.

5. Jayasudha B S K, P.N. Sudha "PCG analysis for cardiac failures using wavelet tool", 4th International Conference on Science, Agriculture and Technology for society (ICSTS-2019) 13th-15th May 2019.

Achievements

1. Contributed as a member of organizing committee in 5th WIECON-ECE 2019 (WIE Conference on Electrical and Computer Engineering), organized by WIE Bangalore section and WIE Bangladesh section on 15th & 16th November 2019.

2. Served as Session Chair for poster presentation in 5th WIECON-ECE 2019 (WIE Conference on Electrical and Computer Engineering), organized by WIE Bangalore section and WIE Bangladesh section on 15th & 16th November 2019.

3. Received Best Volunteer Silver award from IEEE Women in Engineering Affinity group Bangalore section.

4. Received Outstanding small student Branch Counselor award 2019 from IEEE Bangalore section.

5. Received Best Researcher award 2020 from IEEE Bangalore section.
6. Received Outstanding WIE Professional Volunteer award 2020 from Women in Engineering Bangalore section.
7. Received Outstanding WIE volunteer award 2020 from IEEE Bangalore section.
8. Received Certificate of Appreciation for volunteering as proctor in IEEE Xtreme14.0 programming competition that hosted +7300 participants on 24th October 2020.
9. Serving as Secretary for Women in Engineering IEEE Bangalore section for the second time since January 2020.

Professional Membership

1. IEEE member- 93935652
2. ISTE Life Member-LM50235
3. IEI Life member M-158434-5
3. IEEE Engineering in Medicine and Biology Society
4. IEEE Signal Processing Society
5. IEEE Women in Engineering

Online certifications from Coursera

- AI for medical diagnosis.
 - AI for medical prognosis.
 - AI for medical Treatment.
 - AI for medicine specialization.
 - Data science in Real Life from John Hopkins University.
 - Exploratory Data Analysis with Seaborn.
 - Machine Learning with H2O Flow.
 - Logistic Regression with NumPy and Python.
 - Multiple Linear Regression with scikit-learn.
 - University Admission Prediction Using Multiple Linear Regression.
 - Unsupervised Machine Learning for Customer Market Segmentation.
 - Work Smarter, Not Harder: Time Management for Personal & Professional Productivity.
- ❖ NPTEL online certification on NBA Accreditation and Teaching -Learning in Engineering.

Contact Details

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