

## Dr.KIRANMAYI G.R

Associate Professor, Dept of Electronics and Instrumentation Engg, SIT

Contact: 7892125780

Email: kiranmayi@sit.ac.in

Vidwan ID: 90965

Scopus ID: 56038536800

OrcID: 0000-0001-7710-7760

Faculty ID: SIT081

### Education

	Degree	Year	Institute	Specialization
1	B.E	1989	Siddaganga Institute of Technolpgy, Tumakuru, Bangalore University	Instrumentation
2	M.Tech	1995	Sri Jaya Chamarajendra College of Engineering, Mysore, Mysore University	Bio Medical Instrumentation
3	P.hd	2018	JSS Research Foundation ,Sri Jaya Chamarajendra College of Engineering, Mysore, Mysore University	Electronics : Bio Medical Signal Processing

### Professional Experience

	Date (from-to)	Designation	Organization
1	20-9-1989 to 31-12-2010	Lecturer, Senior Lecturer, Assistant Professor	Siddaganga Institute of Technolpgy, Tumakuru
2	1-1-2011 to till date	Associate Professor	Siddaganga Institute of Technolpgy, Tumakuru

*(Please fill in reverse order. Current designation should be at the top)*

### Positions held

*(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)*

*NBA Coordinator*

*NAAC Coordinator*

*BOS Coordinator*

*DAAC Coordinator*

*Exhibition Coordinator*

### Affiliations of Professional organizations

- Member of IEEE Engineering in Medicine and Biology Society (EMBS),
- Member of IEEE Signal Processing Society (SPS)
- Member of IEEE Women in Engineering (WIE)
- Life Member of Indian Society for Technical Education (ISTE)
- Fellow of Institute of Engineers India (IEI)

### Awards and Honors

--NIL--

### Courses Taught

#### Undergraduate Courses

- Control System Components
- Analog Electronic Circuits
- Electronic Measurements
- Medical Imaging
- Process Control
- Signals and Systems
- Analytical Instruments
- Bio medical Instruments
- DSP Architecture
- Biomedical Signal Processing
- Digital Signal Processing
- Digital Image Processing
- Artificial Neural Networks and Fuzzy Logic

#### Postgraduate Courses

- Biomedical Signal Processing
- VLSI for Signal Processing
- Advanced Microcontrollers and its Applications
- Design of IOT systems
- Real Time Operating Systems

### Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
	NIL		

### Research Areas

- Signal Processing
- Image Processing
- Bio Medical Instruments
- Embedded Systems

### Sponsored Projects

Ongoing Projects:

--NIL--

Completed Projects:

--NIL--

### Publications

Journals

#### **International Journal Publications:**

[1] G.R.Kiranmayi, V. Udayashankara, *Detection of Epilepsy using Discrete Cosine Harmonic Wavelet Transform based features and Neural Network Classifier*, International Journal of Biomedical Engineering and Technology, Inderscience publishers, VOL 32, No.2, 5th March 2020 pp 109-122 , ISSN : 1752-6426

[doi.org/10.1504/IJBET.2020.105649](https://doi.org/10.1504/IJBET.2020.105649) in *Engineering and Technology Various types VOL*

[2] G.R.Kiranmayi, V. Udayashankara, *EEG Subband Analysis using Approximate Entropy for the Detection of Epilepsy* , IOSR Journal of Computer Engineering, Vol 16, sept-oct. 2014, pp 21-27.

[3] G.R.Kiranmayi, V. Udayashankara *Neural Network Classifier for the Detection of Epilepsy/Seizure based on Bispectrum features* , International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 8, Issue 6, November - December 2017, pp. 121–130. , ISSN : 2350-0328

[4] Arun Kumar J, G.R.Kiranmayi, **Internet of Things for smart Cities**, International Journal of Advances In Computer Science and Cloud Computing, ISSN: 2321-4058 Volume-5, Issue- 2, Nov.-2017 pp 1-4

[5] Ullas M S, Dr. Kiranmayi G R “**Design And Evaluation of Vedic Multiplier Using Various Types of Adder Topologies**”, International Journal of Electrical, Electronics and Data , Volume-9, Issue-7,PP 28-31, July 2021 [6] Abhishek Tiwari, Debjit Bhadra, Kiranmayi GR, “**IoT-Based Smart Medicine Dispenser**”, International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue V May 2023 DOI Link: <https://doi.org/10.22214/ijraset.2023.51285>

---

---

## International Conference Publications:

- [1] G.R.Kiranmayi, Dr.V.Udayashankara, *Automatic Detection of Epilepsy: a review*, Proceedings of International Conference on current Trends in Engineering and Management ICCTEM 2012, July12-14, 2012.
- [2] G.R.Kiranmayi, Dr.V.Udayashankara , *Bispectrum Analysis of EEG for the detection of Epilepsy*, Proceedings of International Conference on Evolutionary Trends in Information Technology, ICETIT 2012, 5th to 6<sup>th</sup> October.
- [3] G.R.Kiranmayi, Dr.V.Udayashankara, *Neural Network classifier for the detection of Epilepsy*, proceedings of the International IEEE Conference on Circuits, controls and communications ,CCUBE2013, 27 - 28 December.
- [4] G.R.Kiranmayi, V.Udayashankara, Vinoda Kuchupillai, Priyadarshan Singh, S.Ghansham Kumar, B.Lakshmi, *Analysis of Sudarshan Kriya Yoga EEG using Approximate Entropy*, Proceedings of International Conference on Stress Reduction Skills:Scientific update, 30th -31st , August 2014, New Delhi, India, pp 66-67.
- [5] Kavya, C. S,Poornima, N. H.;Sahana, N.;Vidyashree, K. V.,Kiranmayi, G. R., *Conversion of LIP movement to speech: An aid to physically impaired and dumb people*, Proceedings of International Conference on Signal Processing, Communication, Power and Embedded System, SCOPES 2016 - Proceedings, Year 2017, pp 1868-1871
- [6] Arun Kumar J, G.R Kiranmayi, “ *Internet of Things for smart cities*” , Proceedings of International Conference on Emerging Trends in Electronics , Electrical and Mechanical Engineering (ICEEME) , Pune, India , 1<sup>st</sup> oct.2017
- [7] Basavaraju Y.G , G.R Kiranmayi, Rajath , “*Human –Machine Interface for Security Access Control System using Raspberry PI*”, Proceedings of International Conference on Recent Advances in Science , Engineering and Technology (ICRASSET) , Bengaluru , India ,10<sup>th</sup> June 2018
- [8] Ullas M S, Dr. Kiranmayi G R “*Design and evaluation of vedic multiplier using various types of adder topologies*”, Proceedings International Conference on Robotics, Communication Technology, Electronics, and Electrical Engineering (ICRRCTEEE) 13th June 2021.
- [9] Sharada K Hegde; Dr. Kiranmayi G.R; Subbash Panati, “*ECG front end acquisition and filtering design for clinical use*”, International Conference on Robotics, CommunicationTechnology, Electronics, and Electrical Engineering (ICRRCTEE), Year: 2021. pp 54-57
- [10] R. K. Madhusudhana and G. R. Kiranmayi, “*Design and implementation of access monitoring system for banks using OpenCV and Django,*” 2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT), Bangalore, India, 2022, pp. 1-4  
doi: 10.1109/GCAT55367.2022.9972199
-

- 
- [11] Abhishek Tiwari, Ashish Jha, Debjit Bhadra, Shlok Kumar, Kiranmayi G.R, “***IoT – based Smart Medicine Dispenser***” Presented in IEEE MYSURU conference 2022. held 16<sup>th</sup>-17<sup>th</sup> October, 2022
- [12] P S, K. G R and S. Sundar S, "**An Inclusive Survey of Internet of Vehicles with Emphasis on Cyber Security & Forensics,**" *2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)*, Chennai, India, 2023, pp. 1-6, doi: 10.1109/ICCEBS58601.2023.10449092.
- [13] P. B. V, K. N. K. Adiga, M. H, S. K N, G. R. Kiranmayi and R. Sharma, "**IOT based Lake Cleaning Machine-: Removal of Floating Objects,**" *2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)*, Tumakuru, India, 2023, pp. 1-4, doi: 10.1109/ICSSES58299.2023.10200402.
- [14] C. Adarsh and G. R. Kiranmayi, "**ECG Signal Analysis for the Detection of Myocardial Infarction,**" *International Conference on Smart Systems for applications in Electrical Sciences (ICSSES-2024)*, Tumakuru, India, 2024, pp. 1-5, doi: 10.1109/ICSSES62373.2024.10561288.
- [15] C. Adarsh and G. R. Kiranmayi ,“ **Advanced Overhead Field Passage Indicator for High-Current Power Lines**”, *International Conference on Smart Systems for applications in Electrical Sciences (ICSSES-2025)*, Tumakuru, India , 2025 , March 2025 doi:[10.1109/ICSSES64899.2025.11009400](https://doi.org/10.1109/ICSSES64899.2025.11009400)

Dr. Kiranmayi G. R.

---