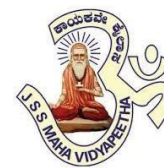





JSS Mahavidyapeetha
JSS Academy of Technical Education, Bengaluru
Department of Electronics & Communication Engineering



FACULTY PROFILE

1. Personal Details

NAME	Dr. Kiran B	
DEPARTMENT	Electronics and Communication Engineering	
DESIGNATION	Assistant Professor	
PHONE	+91-9901329141	
EMAIL ID	kiranb@jssateb.ac.in	
TEACHING EXPERIENCE	13	
INDUSTRY EXPERIENCE	03	
RESEARCH EXPERIENCE	5	

2. Qualification

COURSES	SPECIALIZATION	INSTITUTION	UNIVERSITY
Ph.D.	Electronics Engineering	Faculty of Engineering and Technology	JAIN (Deemed-to-be University), Bengaluru
M. Tech.	Digital Electronics and Communication	NMAM Institute of Technology, Nitte	Visvesvaraya Technological University, Belagavi
B.E.	Instrumentation Technology	Vijayanagar Engineering College, Bellari	Visvesvaraya Technological University, Belagavi

3. Membership of Professional Bodies:

1. International Association of Engineers (Associate Member Life Time)
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4. Awards

Award Title	Date of receiving the award	Award issuing authority/ Body / Organization
"Best Paper Award"	30 th Oct 2021	Computer Vision Impelled Technology, Dayananda Sagar University.

5. Membership in University Boards:

Sl. No.	Body	Duration	Department	Name of the University / Institution / Organization
1	Board of Studies (External Member)	2024 – 25	R & AI	REVA University
2	Board of Studies (External Member)	2023 – 24	R & A	REVA University
3	Board of Studies (External Member)	2022 – 23	R & A	REVA University
4	Board of Studies (Internal Member)	2018 – 19	R & A	JAIN (Deemed-to-be University)
5	Board of Examiners (Internal Member)	2020 – 21	R & A	JAIN (Deemed-to-be University)
6	Board of Examiners (Internal chairperson)	2021 – 22	R & A	JAIN (Deemed-to-be University)
7	Board of Examiners (External Member)	2023 – 24	ECE	Dayanand Sagar University

6. Publications**i. Journals**

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1.	Hybrid Energy Generation For Remote location Display Boards	N Raghu, VN Trupti, B Kiran	Journal of Harbin Engineering University	Vol 44, Issue 8, 2023	Scopus	0.420	Journal of Harbin Engineering University
2.	Design and Performance Evaluation of Power Optimized Pipeline A/D Converter" Design Engineering	Kiran B, Manjunatha K N, Vaibhav A Meshram	Design Engineering	Vol 2, Issue 8, 2021	Scopus	2.5	Rogers Media Publishing
3.	Design and Development of A Smart Bin with enhanced database Using ARM LPC2148	Manjunatha K N, Kiran B, Raghu N	GIS Science Journal	Vol 8, Issue 6, June 2021	-	0.148	GIS Science Journal
4.	Modelling and Performance Analysis of Pipeline A/D Converter for High-Speed Applications	Kiran B, Vaibhav A Meshram	Virtual Conclave on Computer Vision Impelled Technology	Vol 1, Sep 2020	-	-	DSU
5.	Design and Analysis of a High-Speed CMOS 12-bit 400-MSample/s using Switched Capacitive Flip around Technique for Pipeline ADC	Kiran B, Vaibhav A Meshram	International Journal of Advanced Science and Technology	Vol 29, Issue 7, July 2020	Scopus	6.78	Science and Engineering Research Support Society

6.	A Study on Mapping of Harohalli Lake Using IRNSS Receiver	N Raghu, K N Manjunath, B Kiran	International Journal of Telecommunications & Emerging Technologies	Vol 5, Issue 2, Dec 2019	-	6.028	Research Trends
7.	Mapping of Arkavathi Reservoir using IRNSS Receiver	N Raghu, K N Manjunath, B Kiran	Journal of Instrumentation Technology and Innovations	Vol 9, Issue 2, Sep 2019	-	1.75	IOP Publishing
8.	Design and Performance Evaluation of Ideal and Non- Ideal Effects of Pipeline ADC using Software Reference Models	Kiran B, Vaibhav A Meshram	International Journal of Recent Technology and Engineering	Vol 8, Issue 3, Sep 2019	Scopus	-	Blue Eyes Intelligence Engineering and Sciences Publication
9.	A Review on an Efficient Architecture of Pipeline ADC for High-Speed Applications	Kiran B, Vaibhav A Meshram	International Journal of Engineering Research and Applications	Vol 9, Issue 7, July 2019	-	6.465	IJERA Publication
10.	IoT based home security through image processing algorithms	Supriya J Mannapur, Sanjay Raj, Kiran B	International Journal of Advance Research, Ideas and Innovations in Technology	Vol 4, Issue 3, 2018	-	-	IJARIT
11.	Advanced Braille System-Communication Device for Blind-Deaf People	Saraswathi Y.S, Shivangi Garg, Kiran B	International Research Journal of Engineering and Technology	Vol 04 Issue 06 June 2017	-	8.226	IRJET
12.	Design and Development of Low-Cost Smart Billing System	Prakruthi K, Sowmya B, Kiran B, Manjunatha K N	International Journal of Research – Granthaalayah	Vol. 5 Issue 4, April 2017	-	4.321	International Journal of Research
13.	Tracking and analysis of three IRNSS satellites by using satellite tool kit	Kiran B, Raghu N, Manjunatha K N	International Journal of Advance Research and Innovative Ideas in Education	Vol 1 Issue 5 2016	-	4.06	IJARIIE
14.	Design of Power Protection System in Analog Input and Output for Wireless Data Logger	Om Prakash Manjunatha K N, Kiran B	International Journal of Advance Research and Innovative Ideas in Education	Vol 1 Issue 5 2016	-	4.06	IJARIIE
15.	Sensolight System for Hump Detection in Motorcycle	Manjunatha K N, Kiran B	International Journal of Advance Research and Innovative Ideas in Education	Vol. 1, Issue 5, 2016	-	4.06	IJARIIE

15.	An efficient method for shadow detection and removal in satellite images by segmentation	Prasad Kotur, Kiran B	International Journal of Advanced Research in Computer and Communication Engineering	Vol. 4, Issue 6, June 2015	-	8.102	Tejass Publication
16.	Design and ASIC implementation of a 3GPP LTE – Advance Turbo Encoder and Turbo Decoder	Manjunath K N, Kiran B Prassana Kumar C	International Journal of Engineering research and applications	Vol. 2, July-August 2012	-	6.465	IJERA Publication

ii. International Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	Publisher
1.	IoT based Smart Refrigerator for Food Management System	Kiran B, Raghu N	2 nd International Conference on Emerging Research in Computational Science	12 th – 14 th Dec 2024	IEEE
2.	Design of Smart Wheel Chair for Disabilities with Quadriplegia through Brain Computer Interface	Manjunatha K N, Kiran B	4 th International conference on VLSI, Signal processing, Power Electronics, IoT, communication and Embedded Systems	19 th – 20 th Dec 2024	Springer
3.	Design and Implementation of high-speed Pipeline A/D Converter for Image Processing and Communication based applications	Kiran B, Nayeem Ahmed Rather	AIP Scopus Index International Conference on Computing, Networks & Renewable Energy	30 th May 2024	AIP Scopus
4.	Performance Evaluation of Noise Modelling for Underwater Acoustic in Broadband Communication	Manjunatha K N, Kiran B	International Interdisciplinary Humanitarian Conference for Sustainability	November 3 rd & 4 th 2023	IEEE
5.	Design and Development of Autonomous Mobile Robot for Mapping and Navigation System	B Kiran, S Karthikeyan	IEEE Pune Section International Conference	15 th Dec 2022.	IEEE
6.	Design of IoT based Instrument Landing System	Kiran B, Manjunatha K N, Raghu N	International Conference on Disruptive Technologies for Multi- Disciplinary Research and Applications	Nov 19 – 21, 2021	IEEE
7.	A comparative study and performance analysis using IRNSS and Hybrid Satellites	B Kiran, N Raghu and Manjunatha K N	1 st International Conference on Computational Intelligence & Informatics	May 28 – 30, 2016	Springer
8.	Determination and Preliminary Analysis of Position Accuracy on IRNSS Satellites	Raghu N, Manjunatha K N Kiran B	5 th International conference on communication and signal processing	6 th - 8 th April 2016	IEEE
9.	Tracking of IRNSS, GPS and Hybrid Satellites by Using IRNSS Receiver in STK Simulation	Raghu N, Kiran B Manjunatha K N	5 th International Conference on Communication and Signal Processing	6 th - 8 th April 2016	IEEE
10.	A study on mapping of Arkavathi Reservoir using IRNSS receiver	Manjunath K N, Raghu N Kiran B	GAGAN & IRNSS Applications at GNSS USER MEET 2015, ISRO	8 th Oct 2015	-

11.	Tracking of Satellite using phased array antenna	Raghu N, Manjunath K N Kiran B	International Conference on Electronics and Communications Systems	13 th – 14 th Feb 2014	-
12.	Design and analysis of low power Linear Feedback Shift Register with clock gating	Manjunath K N, Kiran B Prassana Kumar C	International Conference On Communications, Networking and Signal Processing	19 th – 21 st Sep 2013	-

iii. National Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	Publisher
1.	Design and Simulation of Programmable Logic Controller based to Detect and Remove Burned Chips	Kiran B, Anshuman Mani Tripathi	National Conference Jnana Chilume – 2020: Automation, Control and Communication	25 th Nov 2020	SET
2.	Modeling and Performance Analysis of Pipeline A/D Converter for High-Speed Applications	Kiran B, Vaibhav A Meshram	Annals of Computer Vision Impelled Technology	Vol 1, 11-12 th Sep 2020	DSU
3.	Study and Mapping of Arkawathi Reservoir”	Raghu N Kiran B, Manjunatha K N	National Conference Jnana Chilume – 2019	29 th March 2019	SET
4.	Design of Sign Language Interpreter for Specially Challenged Community	Manjunatha K N, Kiran B	National Conference Jnana Chilume – 2019	29 th March 2019	SET
5.	Design of Power protection system design in analog input and output for wireless data logger	Abhinav Mishra, Manjunatha K N Kiran B	National conference on recent trends in Electrical, Electronics, Computing and Information Technology	24 th Sep 2016	MCIS

iv. Book Chapters

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	Publisher
1.	Real-time fraud detection in crypto-currencies	Raghu N, Kiran B	CRC Press	Vol 10, Pages 28, 2024	Taylor and Francis Group
2.	VLSI Implementation of a High-Speed Pipeline A/D Converter	Kiran B Raghu N Manjunatha K N,	IGI Global	2023	IGI Global
3.	Arrhythmia Recognition and Classification Using Kernel ICA and Higher Order Spectra: SVM Method of Detection and Classification of Arrhythmia	Raghu N Manjunatha K N, Kiran B	IGI Global	2023	IGI Global
4.	Design of Efficient VLSI Architecture and Implementation of Power-Optimized Turbo Decoder for LTE Networks	Manjunatha K N, Raghu N, Kiran B	IGI Global	2023	IGI Global

5.	Evaluation of Turbo Decoder Performance Through Software Reference Model	Manjunatha K N, Raghu N, Kiran B	IGI Global	2022	IGI Global
6.	Arrhythmia Detection Using machine learning techniques	Raghu N, Manjunatha K N, Kiran B	Lambert Academic learning	August 2019	Lambert Academic learning

7. Others: Workshops / Conference (Organised/Attended).

Sl. No.	Name of the workshop / Conference	Organiser	Date
1.	Scaling the Future: Trends and challenges in Semiconductor Technology	JSS STU	13 th – 15 th Feb 2025
2.	Robotics workshop on ESP 32	MSEC	10 th - 15 th Feb 2024
3.	Embedded workshop	MSEC	29 th - 30 th Dec 2023
4.	Introduction to Robotics	IIT Bombay	8 th and 9 th Sep 2023
5.	Organizing secretary intelligent communication and control	FET – JU	2022
6.	Session Chairperson at the Third National Conference on Innovative Technologies Post Pandemic	NHCE	7 th and 8 th of April 2022
7.	Reviewer for International Conference Series of IEEE Mysore Sub Section	Navkis	24 th & 25 th October 2021
8.	scientific committee member - 2 nd International Conference on Emerging trends in science, engineering and management	GMIT	15 th & 16 th July 2021
9.	Testing and Measurement of Electronics Laboratory Equipment, Communication and Antenna Training Systems	FET – JU	13 th to 18 th July, 2018
10.	Faculty Development Programme	FET – JU	24 th – 30 th Jan 2018
11.	Sankalp – Teacher sensitization on counselling	CMS – JU	16 th Jan 2016
12.	Outcome Based Education	FET – JU	13 th – 16 th July 2016
13.	Applied Electromagnetics and Communication	FET – JU	3 rd – 5 th Aug 2016
14.	Outcome Based Education (OBE) – II	FET – JU	23 rd – 30 th Jan 2017
15.	Skill development programme	CERSSE – JU	24 th and 25 th July 2015.
16.	Micro/Nano devices, circuits and system	SET – JU	21 st and 22 nd April 2015

8. Patents

Sl. No.	Title	Application No	Date of publication
1.	Flood and Cyclone Detection System for Real-time Monitoring and Early Warning	202341069911	16th October 2023

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1.	Automatic Control	Swayam - NPTEL	Mar 2021	64%
2.	Introduction to Internet of Things	Swayam - NPTEL	Jul – Oct 2021	53%
3.	NBA Accreditation and Teaching – Learning in Engineering	Swayam - NPTEL	July – Apr 2020	95%

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