***Curriculum –vitae***

**Dr. Manjunatha K N**

**#364, A -block, D-group layout, Srighandada kaval**

**Bengaluru – 560 091.**

**Email:** **manju23687@gmail.com**

**Mobile: 9844719520**

***Profile in brief:***

* Doctorate in Electronics Engineering from Jain University.
* **12 years** of experience in teaching UG and PG at dept. of Electronics and Communication Engineering, Electrical and Electronics Engineering and Robotics and Automation in JAIN Deemed to be University.
* Guided 2 students for M.Tech in the area of Wireless data logger and Smart-Bin using IoT.
* Guided 3 students for PhD to complete their pre-comprehensive viva
* Extensively involved in Pre-Placement Training for students, coordinated in organizing the National workshop, conferences and student admissions.
* Worked as LMS and ERP head at dept. and institute level.

***Academic Profile:***

**Educational Qualifications:**

|  |  |  |  |
| --- | --- | --- | --- |
|  **Degree** |  **College**  | **University/** **Board** | **Year**  |
| Ph.D.(Electronics Engineering) | School of Engineering and Technology, Jain University | JAIN University | 2020 |
| M. Tech (VLSI and Embedded Systems) |  Sri Siddartha Institute of Technology, Tumkur.  | Sri Siddartha University  | 2011 |
|  BE (Instrumentation Technology) | Dr. Ambedkar Institute of Technology, Bengaluru | VTU, Belgaum | 2009 |

***Professional Profile***

* **Present Position:** Associate Professor in Dept. of Mechatronics Engineering, Acharya Institute of Technology. June 2023 to till date.

**Previous Position**

|  |  |  |  |
| --- | --- | --- | --- |
|  **College/Institution** | **Dept.**  | **Position** | **Year**  |
| School of Engineering & Technology, JAIN Deemed to be University | Electronics and Communication Engg. | Assistant Professor | Jan 2012-Jul 2017 |
| School of Engineering & Technology, JAIN Deemed to be University | Electrical and Electronics and Engg. | Assistant Professor | Aug 2017-Jul 2019 |
| School of Engineering & Technology, JAIN Deemed to be University | Robotics and Automation. | Assistant Professor | Aug 2019-Jan 2023 |

**Funded projects**

* “*Smart Bin Using IoT: A new destination to clean India*”, KSCST sponsored project (during 2015-16).
* “*Study and correction of SAR images for ionospheric effect using IRNSS ionosphere data*” Space Application Centre (SAC), ISRO sponsored project.

**Books**

* Raghu N, **Manjunath**a K N, Kiran B “Arrhythmia Detection using machine Learning Techniques”, LAP LAMBERT Academic publishing, ISBN:978-3-659-52575-9,2019.

**Book chapters**

* **Manjunatha K N**, Raghu N, Kiran B “Evalutation of Turbo Decoder Performance Through Software Reference Model”, IGI Global publishers, 2022, DOI: 10.4018/978-1-7998-6988-7.ch011
* **Manjunatha K N**, Raghu N, Kiran B “[Design of Efficient VLSI Architecture and Implementation of Power-Optimized Turbo Decoder for LTE Networks](https://www.igi-global.com/chapter/design-of-efficient-vlsi-architecture-and-implementation-of-power-optimized-turbo-decoder-for-lte-networks/320329)” pp 131-166, DOI: 10.4018/978-1-6684-5376-6.ch006 IGI Global publishers, 2023.
* Kiran B **Manjunatha K N**, Raghu N, [VLSI Implementation of a High-Speed Pipeline A/D Converter](https://scholar.google.com/scholar?oi=bibs&cluster=1468895816674226189&btnI=1&hl=en), pp 112-130, DOI: 10.4018/978-1-6684-5376-6.ch005 IGI Global publishers, 2023.
* Raghu N **Manjunatha K N**, Kiran B [Arrhythmia Recognition and Classification Using Kernel ICA and Higher Order Spectra: SVM Method of Detection and Classification of Arrhythmia](https://scholar.google.com/scholar?oi=bibs&cluster=5649402871269502054&btnI=1&hl=en), pp 282-298, DOI: 10.4018/978-1-6684-5376-6.ch005 IGI Global publishers, 2023.

**Google Scholar/ Citations**

<https://scholar.google.com/citations?user=vl47OpcAAAAJ&hl=en>

**NPTEL online Certification**

* NBA Accreditation and Teaching-Learning in Engineering (NATE)
* Introduction to Internet of Things (IoT)
* Introduction to Industry 4.0 and Industrial Internet of Things

**Linkedin online Certification**

* Foundations of the Fourth Industrial Revolution (Industry 4.0)
* IoT Foundations: Standards and Ecosystems

**Professional Body Memberships**

* Optical Society of India (OSI)
* International Association of Engineers (IAENG)
* Institute for Engineering Research and Publication (IFERP)

 ***Subjects and Laboratory thought for UG and PG:***

* Industry 4.0
* Field and Service Robotics
* Fundamentals of Digital Electronics
* Microprocessors and Microcontrollers
* Computer Organization
* Digital System Design using HDL
* DSP System and Architecture
* Fundamentals of Microelectronics
* ARM Processors
* Embedded Systems
* CAD for VLSI
* Electrical and Electronics measurements
* Signal Conditioning Circuits
* Model based Development of Embedded Systems
* Advance microcontrollers
* Real Time Operating Systems
* Laboratory – Robotics Lab (simulation and Hardware), Basic Electronics, Digital Electronics, Microprocessors and Microcontrollers, Advanced Microcontrollers (ARM), HDL – Verilog/VHDL, Digital Signal Processing, LIC and Control System

***Publications – Journals***

1. **Manjunath K N**, Kiran B and Prassana Kumar C “Design and ASIC implementation of a 3GPP LTE – Advance Turbo Encoder and Turbo Decoder” *International Journal of Engineering research and applications* ISSN: 2248-9622, Vol. 2, July-August 2012 *Page number* : 006-010
2. **Manjunatha K N**, Suma M S, C K Raju, Prof.Cyril Prasanna Raj P, “Design and Performance analysis of a 3GPP LTE/LTE-Advance turbo decoder using software reference models”, International Journal of Scientific & Engineering Research, Volume 2, Issue 7, July-2011 ISSN 2229-5518.
3. Kiran B, Raghu N , **Manjunatha K N**, “Tracking and analysis of three IRNSS satellites by using satellite tool kit” IJARIIE-ISSN (O)-2395-4396, Vol-1 Issue-5 2016.
4. **Manjunatha K N**, Shruthi K V, “A Novel approach to design a Smart bin using through IoT”, International Journal of Advanced Networking & Applications, ISSN -0975-0282, June-2016, pp- 483-485
5. **Manjunatha K N**, Abhinandan shetty and et.al “Design and Performance Evaluation of Free Space Energy Harvesting” and Wireless Charging, International Journal of Research –GRANTHAALAYAH, ISSN- 2350-0530(O), ISSN- 2394-3629(P)
6. **Manjunatha K N**, Kiran B, “Sensolight System for Hump Detection in Motorcycle”, Vol-1, Issue-5, IJARIIE-ISSN (O)-2395- 4396
7. **Manjunatha K N**, Dr. Vaibhav A Meshram “Design and FPGA Implementation of Power Efficient Turbo Decoder for 4G LTE Standards” International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 12, Number 21 (2017) pp. 10921-10925.
8. Raghu N, **Manjunath K N,** Kiran B “A Study on Mapping of Harohalli Lake Using IRNSS Receiver” International Journal of Telecommunications & Emerging Technologies, ISSN: 2455-0345, Vol. 5: Issue 2, 2019.
9. **Manjunatha K N,** Dr. Vaibhav A Meshram “Energy Efficient VLSI Architecture for Variable Iterative 4G LTE Turbo Decoder” International Journal of Engineering & Technology (UAE), 7 (3) (2018) 1535-1539.
10. Raghu N, **Manjunath K.N**, Kiran B., Rylan Chetia “Mapping of Arkavathi Reservoir using IRNSS Receiver”, Journal of Instrumentation Technology & Innovations, ISSN: 2249-4731 (Online), ISSN: 2347-7261 (Print), Volume 9, Issue 2, 2019.
11. Dr. Raghu N, Dr. **Manjunatha K N**, Prof. Kiran B, Mr. Rylan Chetia “Design And Development of Smart Soil Analyser”, Collaborative Research In Applied Science and Engineering, (CRASE),Volume 1, Issue, 1, September, 2020.
12. **Dr. Manjunatha K N**, Dr. Raghu N, “Design Of Sign Language Interpreter For Specially Challenged Community”, European Journal of Molecular & Clinical Medicine, ISSN 2515-8260 Volume 07, Issue 07, 2020.
13. **Dr.** **Manjunatha K N**, Prof. Kiran, Dr. Raghu N, “Design and Development of A Smart Bin with enhanced database Using ARM LPC2148”, GIS SCIENCE JOURNAL, ISSN NO : 1869-9391, pp 1415-1420, VOLUME 8, ISSUE 6, 2021.
14. Kiran B, Manjunatha K N, Vaibhav A Meshram “Design and Performance Evaluation of Power Optimized Pipeline A/D Converter”, Design Engineering, ISSN: 0011-9342, Issue: 8 Pages: 4828-4840, 2021

## Conferences

## International

1. B Kiran, S Karthikeyan, MAS Pasha, KN Manjunatha [Design and Development of Autonomous Mobile Robot for Mapping and Navigation System](https://scholar.google.com/scholar?oi=bibs&cluster=12180695981396166282&btnI=1&hl=en)- 2022 IEEE Pune Section International Conference, 2022
2. B Kiran and Manjunatha K N Design of IoT based Instrument Landing System International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON-2021)
3. **Manjunatha K N**, Dr. Vaibhav A Meshram “Development of a Low Power VLSI Architecture for Variable Iterative 4GLTE Turbo Decoder”, International conference on emerging trends in science and technologies for engineering systems (ICETSTES-2018)
4. B Kiran, N Raghu and **Manjunatha K N** “A comparative study and performance analysis using IRNSS and Hybrid Satellites” 1st International Conference on Computational Intelligence & Informatics (ICCII – 2016), held during May 28 – 30, 2016, published in Springer – Advances in Intelligent systems and Computing.
5. Raghu N, **Manjunatha K N** and Kiran B “Determination and Preliminary Analysis of Position Accuracy on IRNSS Satellites” 5th IEEE International conference on communication and signal processing organized by Adiparashakthi Engg. College, Melmaruvathur, on 6th to 8th May 2016.
6. Raghu N, Kiran B and **Manjunatha K N** “Tracking of IRNSS, GPS and Hybrid Satellites by Using IRNSS Receiver in STK Simulation” 5th IEEE International Conference on Communication and Signal Processing, April 6-8, 2016, India
7. **Manjunath K N,** Raghu N and Kiran B “A study on mapping of Arkavathi Reservoir using IRNSS receiver” GAGAN & IRNSS Applications at GNSS USER MEET 2015, ISRO, Bangalore on 8th Oct 2015.
8. Raghu N, **Manjunath K N** and Kiran B “Tracking of Satellite using phased array antenna” International Conference on Electronics and Communications Systems (ICES) on 13 – 14 Feb 2014 at Karpagam college of engineering coimbature.
9. **Manjunath K N**, Kiran B and Prassana Kumar C “Design and analysis of low power Linear Feedback Shift Register with clock gating” International Conference On Communications, Networking and Signal Processing (ICCNASP - 2013) held during 19th – 21st Sep 2013 at VIT University, Vellore. ISBN: 978-81-8424-840-1, Page number: 282-284.

## National

* Prakruthi K, sowmya B, Kiran B and Manjunatha K N “Design and development of low cost smart billing system” National Conference on Recent Advances in Communication, Electronics and Electrical Engineering (RACEE-17) organized by SET, Jain University on 25th March 2017.
* Abhinav Mishra, Manjunatha K N and Kiran B “Design of Power protection system design in analog input and output for wireless data logger”, National conference on recent trends in Electrical, Electronics, Computing and Information Technology (NCRTEECIT - 16) 24th Sep 2016 at SET, Jain University.

**WORKSHOPS/FDPs PARTICIPATED:**

* Faculty development programme in “OUTCOME BASED EDUCATION (OBE) MODEL” held at SET, Jain University from 13th – 16th July 2016.
* Three days Zonal level faculty development program on “Applied Electromagnetics and Communication” held on 3rd – 5th August – 2016 organized by the Dept. of ECE and EEE, SET, Jain University, Bangalore.
* Faculty development programme in “OUTCOME BASED EDUCATION (OBE) – II” at SET, Jain University from 23rd – 30th January – 2017.
* Two day Skill development programme for Ph.D. scholars organized by the Centre for research in social sciences & education (CERSSE), Jain University held on 24th and 25th July 2015.
* Two day workshop on “Micro/Nano devices, circuits and system” conducted by Dept. of ECE at SET, Jain University, Bangalore on 21st and 22nd April 2015.
* Four days DST sponsored “GPS RO Technique and Applications”, at SRM University during 16-19 March 2015.
* Three days’ workshop on “NAAC Assessment and Accreditation: A step by step process”, GATES Institute of technology 28th to 30th May 2020.
* One Day Online National Workshop on “ VFD Basics, latest and future YASKAWA VFD’S, i^3 Mechatronics and Humatronics” conducted by Department of CSE,SCSE, JAIN Deemed to be University, Bangalore, held on 16th May 2020.
* NPTEL-AICTE FDP on “Introduction to Industry 4.0 and Industrial Internet of Things” Sept-Dec-2020.
* Technical Education Quality Improvement Programme (TEQIP-III) sponsored International Workshop on “Electric Power Grid Modernisation: Trends, Challenges and Opportunities”, held from July 20-24, 2020.

**Short term courses/ Trainings Completed**

* Three Day Short Term Training Programme on “*Electric Vehicles & its Scenario in India*” organized by the Department of Electrical & Electronics Engineering, BSA Crescent Institute of Science & Technology, Chennai-48 during 01-03, July 2020.
* A short course on *"Learn to Design your own Solar Home System"*, as a part of Energy Literacy Drive of the Energy Swaraj Foundation in association with AISSMS College of Engineering, Pune.24th June -1st July 2020.
* Five Days National Level Skill Development Program on “Advanced Tools and Concepts for Lab Development and Maintenance”, Pimpri Chinchwad College of Engineering, Pune, Maharashtra in association with IEEE Pune Section from 1st June 2020 to 5th June 2020.

***Personal Profile***

**Date of Birth:** 23/06/1987

**Gender:** Male

**Nationality:** Indian

**Languages known:** English, Kannada and Hindi.

**Father Name:**  Mr. Narasaiah

**Permanent Address:** Manjunatha K N, S/O Narasaiah,

 #364, A -block, D-group layout,

Srighandada kaval

Bengaluru – 560 091**.**

I hereby declare that all the statements made in the above are correct to the best of my knowledge and belief.

Date: 30/06/2023 Dr. Manjunatha K N

 (Bengaluru)