

Dr.PRAKASH K SONWALKAR

Associate Professor,
Dept. of CS&E



Address:

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Career Objective

To pursue a versatile and goal-oriented career in my specialized areas using the skills acquired and passions for the development of the organization and grow myself along with the organization.

Research Interests

- Wireless Sensor Networks
- Data Communication
- Python Programming
- Computer Networks

Academic Profile

Ph.D

2017-2023

Doctor of Philosophy (Ph.D.), in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi.

- **Thesis Title:** “Sequential Rule Based Data Analysis for Improving Energy Efficiency in WSN”

Post Graduation

2008-2010

Master of Technology (M.Tech.) in Computer Network and Engineering from AMC, Bengaluru, affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India.

Under Graduation

2002-2006

Bachelor of Engineering (B.E.) in Electronics and Communication Engineering from **Gogte Institute of Technology, Belagavi**, affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India.

Teaching Experience- 12 years

Associate Professor-2 Months.

Department of Computer Science and Engineering, **Jain College of Engineering,**
to Till Date.

Belagavi from Feb

Assistant Professor-10 Years, 8 Months.

Department of Computer Science and Engineering, **Jain College of Engineering,**
2012 to Feb 2023.

Belagavi from July

Guest Lecturer-9 Months.

Department of Post graduate studies, **Visvesvaraya Technological University, Belagavi** from October 2011 to June 2012.

Industry Experience – 5 years

Assistant Systems Engineer- 1 Year.

Tata Consultancy Services, Bangalore from October 2010-October 2011.

Systems Analyst-2 Years 6 Months.

Unisys Global Services, Bangalore from April 2008- October 2010.

Call Manager-5 Months.

Datacraft Ltd, Bangalore from December 2007-April 2008.

Network Engineer-1 year 2 months.

C-Gates Ltd, Bangalore from July 2006 – September 2007.

Professional Memberships

- Member of Institute of Engineers (MIE) [1507731]
- Member of Indian Society for Technical Education (MISTE) [LM-135413]

Professional Certification

CCNA-Cisco Certified Network Associate. Cisco ID-CSCO11202923

Responsibilities in JCE

- Admission Coordinator for Jain College of Engineering, Belagavi since 2012(10 Years).
- Faculty Coordinator for Department association (FACE).
- Placement coordinator for department of computer science and engineering.
- Student Mentor for higher semester students.

Subjects taught at UG and PG Levels

For B.E & MTech.

Python Programming, Computer Network Security, Computer Networks-I, Computer Networks-II, Data Communication, Software Testing, Wireless Networks and Mobile Computing, Computer concepts and C programming, Electronic Circuits & Logic Design Laboratory, C programming lab, Computer Networks Lab.

Project Guidance and Research Guidance

For B.E students: 40 batches

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[1] **Reg No:** L-106920/2021.

Diary Number-16297/2021-CO/L dated 17/07/2021.

Date: 25/08/2021

Title of the work: “Sequential Rule Based Data Analysis for improving Energy Efficiency in WSN”

Journal and Conference Publications

International Journal Publications:

Sl. No.	Paper Title	Journal / Conference	Year, Volume, and Issue	Indexing	DOI
1	Rectenna Design for Enhanced Node Lifetime in Energy Harvesting WSNs	International Journal of Advanced Computer Science and Applications (IJACSA)	Vol. 13, No. 2, 2022	Scopus & WoS	10.14569/IJACSA.2022.0130285
2	Energy Efficient Hop-by-Hop Retransmission and Congestion Mitigation of an Optimum Routing and Clustering Protocol for WSNs	International Journal of Advanced Computer Science and Applications (IJACSA)	Vol. 13, No. 3, 2022	Scopus & WoS	10.14569/IJACSA.2022.0130379
3	Analysis of sequential rule mining for energy conservation	International Journal of Computer Application(IJCA)	Issue 8, Volume 1, January-February 2018	DOAJ, Google Scholar	dx.doi.org/10.26808/rs.ca.i8v1.04
4	Improved ACO Oriented Efficient Cluster Head Selection Mechanism for Energy Aware Routing Scheme in WSN	International Journal of Electrical and Electronics Engineering (SSRG – IJEEE)	Volume 9, Issue 8, 2022	Scopus	doi.org/10.14445/23488379/IJEEE-V9I8P106
5	Design and implementation of enhanced security model for wireless sensor network on ARM processor	ScienceDirect, Measurement: Sensors	Volume 24, 2022,	Elsevier/ Scopus	doi.org/10.1016/j.measen.2022.100492

Seminars/Workshops/Events Organized

1. Indian Space Research organization(ISRO) sponsored Two-Day National Level Seminar on Advances In Wireless Nano Sensor Networks and Communication on 15th and 16th February 2017 at Jain College of Engineering, Belagavi

FDP/Seminars/Workshops Attended

1. AICTE-VTU Joint Teachers Training Programme for AICTE Approved & VTU Affiliated Technical Institution Teachers One Week Teachers Training Programme On “Introduction to Python Programming & Its Applications” held on 13th to 17th March 2023.
2. 5 days FDP on “ADVANCED TOOLS AND TECHNIQUES FOR BEST RESEARCH” DURING 26th-30th September 2022 by RV Institute of Technology and Management, Bengaluru.
3. One Week Faculty Development Program on “Computational Methods for Big Data Analytics” sponsored by TEQIP 1.3 from 6th Jan-10th Jan 2020 at VTU campus, Belagavi.
4. One Week Faculty Development Programme on “Artificial Intelligence and Machine Learning” by Ministry of Electronics and Information Technology (MeitY), Government of India from 17th Dec-21st Dec, 2018 at PDPM IIITDM, Jabalpur.

5. One Week Faculty Development Program on “Research Methodology through ICT” conducted by National Institute of Technical Teachers Training and Research, Chandigarh- AICTE recognized short Term course from 9th Jan-13th Jan 2017 In Angadi Institute of Technology & Management, Belagavi.
6. Effective Communication Skills and accent training.
7. Wipro mission 10x- Teachers training program from 26th March to 30 March 2012.
8. Undergone training on Cadence software.
9. Attended 2 days workshop of SDR-Software Defined Radio.

Extra/Co-Curricular Activities

1. I was the Executive committee member of Institute of Engineers, Belagavi-Chapter in the year 2017-2019.

Social Activity

I am the Head volunteer of Saytrees NGO, Belagavi Chapter. Saytrees is a NGO established in 2007, which is involved in plantation of trees and looking after them. We have planted around 50,000 saplings throughout India. In Belagavi we have planted around 5,000 saplings and having nearly 1000 volunteers.

Hobbies

Marathoner, Cyclist, Badminton Player, Practicing Meditation and Pranayama regularly since 15 years.

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