



Vaibhav V. Godbole
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Address
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Vaibhav Godbole

<https://scholar.google.com/citations?user=eJ2EAQIAAAAJ&hl=en&authuser=1>

<https://publons.com/researcher/1388213/vaibhav-godbole>

<http://vaibhav-godbole.blogspot.com/>

Assistant Professor

About Me An organized professional with proven teaching, guidance, and counseling skills. Possess a strong track record in improving test scores and teaching effectively. Ability to be a team player and resolve problems and conflicts professionally. Looking to contribute my knowledge and skills in an Institute that offers a genuine opportunity for career progression.

Education

Pursuing PhD

Bharti Vidyapeeth Deemed to be University, Pune

M.E., Electronics & Telecommunication Engineering, 2013

Sardar Patel Institute of Technology, Andheri(W), Mumbai University (73.95%)

Thesis Topic: **Ant Colony and Position based protocol for Mobile Ad-hoc Networks**

Published 3 research papers on the M.E. Project Thesis implementation.

Special Topic Seminar on: **Performance comparison of routing protocols in Wireless Sensor Networks**

Published a research paper on "FCA-An Approach On LEACH Protocol Of Wireless Sensor Networks Using Fuzzy Logic" which was the implementation and extension of Special Topic Seminar.

B.E.Electrical Engineering (Part-Time), 2008

Sardar Patel College of Engineering, Andheri (W)(Government aided), Mumbai University (79.28%)

Diploma in Industrial Electronics (Part-Time), 2000

S.B.M. Polytechnic (Government aided), Mumbai (83.04%)

Diploma in Mechanical Engineering, 1998

Government Polytechnic, Mumbai (62.81%)

Professional Courses

2022, Futuristic Trends In Modern Machine Learning & Data Analytics

ATAL FDP, organized by AICTE and Lakshmi Narain College of Technology

2022, Research Methodology and Classroom Management Skills

IIT Guwahati

2021, Big Data Engineering using Hadoop and Spark

IIT Roorkee & CloudX Lab. This course is equivalent to CCP Data Engineer and CCA Spark and Hadoop Developer

2020, Python for Data Science

NPTEL, IIT Madras

2020, Data Science: Techniques & Tools

Madhav Institute of Technology and Science, Gwalior



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2020, Disruptive Technologies of Industry 4.0

Fr. Conceicao Rodrigues College of Engineering, Bandra

2019, Big Data Computing

NPTEL, IIT Madras

2018, Database Management System

NPTEL, IIT Madras

2018, AICTE-ISTE approved One Week STTP on "Padagogy for Effective Integration of Information & Communication Technologies (ICT) in Engineering Education"

Shah & Anchor Kutchhi Engineering College, Chembur

2017, AICTE-ISTE approved Induction Programme on "Cyber Security on IOT and Cloud"

Fr. CRCE, Bandra (W)

2016, Two Day FDP programme on "R Programming"

Tata Consultancy Services (TCS) and Fr. CRCE, Bandra (W)

2014, Two Week ISTE Workshop on "Computer Networking"

IIT, Bombay (Online & Physical participation at Remote Center (SPIT, Mumbai))

2014, AICTE-ISTE approved Two Weeks STTP on "Environmental Studies: A Multidisciplinary Approach"

Fr. CRCE, Bandra (W) & Fr. Agnel Technical College

2013, AICTE approved Two week Graded FDP on "Virtualization, Cloud Computing and Big Data"

AICTE & Vidyalankar Institute of Technology, Mumbai

2013, Two Day FDP on "Hadoop"

Tata Consultancy Services (TCS) and Fr. CRCE, Bandra (W)

2013, Two Week ISTE Workshop on "Database Management Systems"

IIT Bombay

2012, ISTE approved One week Workshop on "Research Methodology & Related Open Source Tools"

K.J.Somaiya Institute of Engineering & Information Technology, Mumbai

Technical Paper Conferences

2018, Presented a technical paper on "Interactive Teaching-Learning Methodology using Moodle"

National Symposium on "Innovations in Teaching-Learning Process", D.Y.Patil College of Engineering, Akurdi, Pune

Academic Awards

1. 2nd rank in PhD course work examination, held at Bharati Vidyapeeth, Deemed to be University, Pune, 2022
2. 3rd rank during first year of M.E.(Electronics & Telecommunication) course from Sardar Patel Institute of Technology, Andheri (W), Mumbai University, 2013
3. 1st rank during 1st, 2nd & 3rd year and 2nd rank during 4th year of B.E.Electrical Engineering course, Sardar Patel College of Engineering, Andheri (W), Mumbai University, 2008.
4. 1st rank during all years of Diploma in Industrial Electronics course, S.B.M Polytechnic, Mumbai, 2000.



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Experience

April 2009 - present, Assistant Professor, Fr. Conceicao Rodrigues College of Engineering, Mumbai, www.frcrce.ac.in

Subjects taught:

1. Web Programming
2. Software Engineering
3. Wireless Technology
4. Enterprise Network Design
5. Computer Networks
6. Convergence of Technologies in Networking
7. Database Management System
8. Automata Theory
9. Operating Systems Laboratory
10. Linux System administration laboratory
11. Big Data Laboratory
12. Information Theory and Coding
13. Microprocessor and Microcontroller
14. Electronic Devices and Circuits I & 2
15. Electromagnetic Theory

2008 - 2014 Systems Engineer

Dept. of Information Technology, Fr. Conceicao Rodrigues College of Engineering

2004 - 2008 Laboratory Technician

Dept. of Electronics Engineering, Fr. Conceicao Rodrigues College of Engineering

- Responsible of maintenance of Microprocessor and Micro-computer Kits.
- Responsible for maintenance of various laboratory equipments.

1998 - 2004 Laboratory Technician

Dept. of Production Engineering, Fr. Conceicao Rodrigues College of Engineering

- Responsible for maintenance of various laboratory equipments belonging to department of Production Engineering.

Self Initiatives

- Setup and maintenance of Moodle Server for online course management.
- Think-Pair-Share activity in the practical sessions
- Conducted online quizzes and tests on Moodle.
- Conducted online submission of assignments and practicals on Moodle.
- Assistance to placement cell in setting up online aptitude tests on Moodle



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Professional Activities

- Reviewed 105 research papers till date for IET Networks journal, IET Communications journal, IET Electronics Letters, IET Image Processing journal, IET Information Security journal, IET Circuits devices and systems journal, IEEE Sensors journal, IET Sensor Systems journal, IET Smart Cities journal and Journal of Networks and Computer Applications (Elsevier Publications)
- Publication Chair and co-chair for IEEE International Conference on Computing, Communication and Control, held in November 2019 and December, 2021 respectively
- Conducted a workshop on "Introduction to LATEX" under faculty development program on "Effective Technical Paper Writing" organized by dept. of Electronics, Fr. CRCE on 30th August, 2013.
- Technical team leader for Laboratory setup for a faculty development program on "Introduction to big data analysis using Hadoop", at Fr. CRCE, Mumbai.
- Technical team leader for laboratory set-up activities for the ISTE/STTP on "Internet Technologies", conducted by Department of Computer Engineering, Fr. CRCE.

Institute level Administration

- Faculty In-charge of Project Cell and IEDC
- Web administrator of Fr. CRCE for the management of professional courses on Linux certification, offered by Linux Professional Institute, Canada
- Institute coordinator for Aaviskar 2022 competition
- Involved in the documentation work of NBA and NAAC at the institute
- Involved in user account management, database server management, ftp server management, router management
- Test Center Administrator for CAT examination in year 2009-10.
- Coordinator for Common Admission Process (CAP) rounds in year 2011-12.
- Active team member for CAP rounds in year 2010-11, 2008-09, 2007-08, 2006-07, 2006-07.
- Involved in Computer Lab set-up for CAP rounds in year 2011-12, 2010-11, 2009- 10, 2008-09.
- Involved in IRG initiatives of the college.
- involved in judging events during Tech. fest of the college.



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Publications (105 citations till date)

1. V. Godbole, "Performance analysis of clustering protocol using fuzzy logic for wireless sensor network," *IAES International Journal of Artificial Intelligence (IJ-AI)*, vol. 1, no. 3, pp. 103–111, 2012 (**Scopus indexed Journal**)
2. D. C. Karia and V. Godbole, "Genetic algorithm-based energy-efficient protocol for wireless sensor networks," *International Journal of Ultra Wideband Communications and Systems*, vol. 2, no. 3, pp. 133–140, 2012 (**Scopus indexed Journal**)
3. D. Karia and V. Godbole, "Mobility models and traffic pattern generation-based optimisation of reactive protocols," *International Journal of Intelligent Engineering Informatics*, vol. 2, no. 1, pp. 30–46, 2013 (**Emerging Sources Citation Index Journal**)
4. V. Godbole, "Intelligent driver mobility model and traffic pattern generation based optimization of reactive protocols for vehicular ad-hoc networks," *International Journal of Information and Network Security*, vol. 2, no. 3, p. 207, 2013
5. D. C. Karia and V. V. Godbole, "New approach for routing in mobile ad-hoc networks based on ant colony optimisation with global positioning system," *IET Networks*, vol. 2, no. 3, 2013 (**Emerging Sources Citation Index Journal**)
6. V. Godbole, "Performance analysis of antnet-la protocol for ad-hoc networks based on disaster area mobility model," *REV Journal on Electronics and Communications*, vol. 3, no. 1-2, 2013.
7. V. Godbole, "FCA - an approach on LEACH protocol of wireless sensor networks using fuzzy logic," <https://arxiv.org/abs/1301.1753>, 2013.
8. V. Godbole, "Performance analysis of bio-inspired routing protocols based on random waypoint mobility model," *Defence S and T Technical Bulletin*, vol. 5, No. 1 2013 (**Scopus indexed Journal**)
9. U. Behl, D. Bhat, N. Ubhaykar, V. Godbole, and S. Kulkarni, "Multi-level scalable textual-graphical password authentication scheme for web based applications," *REV Journal on Electronics and Communications*, vol. 3, no. 3-4, 2014
10. D. C. Karia and V. Godbole, "Aco-based biology inspired routing protocol for ad hoc networks," *International Journal of Swarm Intelligence*, vol. 1, no. 4, pp. 299-320, 2015
11. Y. Joshi, S. Jadhav, and V. Godbole, "Extraction of silver nano particle from x-ray waste using proteolytic enzyme," *Defence S & T Technical Bulletin*, vol. 9, no. 2, pp. 75–85, 2016 (**Scopus indexed Journal**)
12. V. Godbole, "A message cryptography technique using DNA based hybrid approach," *Defence S & T Technical Bulletin*, vol. 12, no. 1, pp. 79–90, 2019. (**Scopus indexed Journal**)
13. M. Tanna, A. Alexander, N. Bhoir, V. Godbole, and A. Koli, "Drommer: Drone with jammer," *Pensee International Journal*, vol. 50, no. 12, pp. 443–448, 2020 (**UGC Care List Group - I Journal in 2020 now removed**)
14. V. Godbole, "Performance improvement in wireless sensor networks using whale optimization algorithm (WOA) and butterfly optimization algorithm (BOA)," *Defence S & T Technical Bulletin*, vol. 15, no. 1, pp. 73–87, 2022. (**Scopus indexed Journal**)



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Industry Experience

May 1995 - April 1998

Junior Engineer, Tancom Electronics, Tandon Associates Inc., SEEPZ, Andheri (E)

1. Responsible for maintenance of automatic coil winding machines
2. Responsible for production processes of hard-disk head-stacks

Software Development Skills

Programming

- Python
- Shell
- C++
- NS2
- NS3
- OMNET++
- L^AT_EX
- SQL
- Apache Hadoop
- Apache Spark
- Apache Skala
- awk

Technical Skills

- Linux Server Administration
- Moodle server administration
- Oracle and Postgresql server user account management

Awards and Grants

2022

A project titled "Coconut Harvester", mentored by me, has received the award under the **Best Hardware Project** award category, at the e-Yantra Innovation Challenge (eyIC 2021-22)(Online), held in April, 2022, organized by IIT, Bombay

2019

A project titled "Panipuri and Dahipuri Vending Machine using Image processing and Machine learning", which was under my guidance has received an award under the **Best Hardware Project** award category, at the eYantra Symposium (eYS-2019) held in April 2019 at IIT Bombay. More than 300 teams were participated in this National level competition

2018

Received Minor Research Grant of Rs 10000/- from University of Mumbai for the project titled "Automatic Chimney for Home Kitchen"

Interests

Professional

Big Data analysis, Machine Learning, Wireless Networks

Personal

Trekking, Photography