

RESUME

Dr. RAKESH K. KADU

PhD (Computer Science & Engineering (CSE)), M. Tech. (CSE), B.E. (CSE)

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CAREER OBJECTIVE

To be part of a dynamic academic and research environment where I can apply my teaching, research, and administrative experience to contribute to the institution's academic mission, foster interdisciplinary collaboration, and support the holistic development of students and society.

SUMMARY

A seasoned academic professional with over 22 years of experience in teaching, research, and academic administration in reputed engineering institutions. Demonstrates a strong research profile with significant contributions to conferences, journals, and collaborative projects. Experienced in curriculum development, mentoring students, organizing academic events, and executing administrative duties effectively. Committed to fostering innovation, interdisciplinary learning, and continuous academic development.

PERSONAL PARTICULARS	
Full Name	Dr. Rakesh K. Kadu
Marital Status	Married
Nationality	Indian
Date of Birth	03 March 1978
Address for Correspondence	301, Krishna Gokul Apartment, Plot No 212 Shahu Nagar, Besa Road Nagpur, Maharashtra India - 440034

EDUCATION				
Examination	Discipline	Name of College/Board/University	Year of Passing	% of Marks
Ph. D.	Computer Science and Technology	YCCE, Rashtrasant Tukdoji Maharaj Nagpur University (RTMNU) , Nagpur	November 2020	-
Post-Graduation	Computer Science and Engineering	GHRCOE, Rashtrasant Tukdoji Maharaj Nagpur University (RTMNU), Nagpur	2008	68.11
Graduation	Computer Science and Engineering	Govt. College of Engineering, Shri Sant Gadge Maharaj Amravati University, Amravati	2002	59.20
Diploma	Computer Technology	G. H. Rasoni Polytechnic, Nagpur, MSBTE	1999	70.93
SSC	SSC Nagpur Board		1996	60.14

PRESENT EMPLOYMENT DETAILS :	
Organization	Ramdeobaba University, Nagpur, Maharashtra, India
Designation	Assistant Professor, Department of Information Technology & Security
Salary Details	Gross Salary: 1,69,000 /- (VII Pay)

PROFESSIONAL EXPERIENCE: Teaching Experience: 22 years				
From	To	Organization	Nature of Duties	Position Held
June 2009	Till date	Ramdeobaba University, formerly known as (Shri Ramdeobaba College of Engineering and Management, Nagpur)	Teaching	Assistant Professor, Department of Information Technology
July 2004	May 2009	G. H. Rasoni Polytechnic, Nagpur	Teaching and Administration	Head of the Department (HoD) Computer Technology and Information Technology
October 2002	July 2004	Kamptee Polytechnic, Kamptee	Teaching	Lecturer

RESEARCH PUBLICATIONS		
Publication Details (Quantity)	National	International
Journal Papers (SCOPUS Indexed)	-	10
Other Journal Papers (ESCI/ WoS Indexed)	-	05 ESCI
Other UGC/ABDC-listed Journal Papers	-	02
Conference Papers (Scopus Indexed)	07	20
H-Index (Source : Scopus , Web of Science, Google Scholar)	03	

PATENTS Granted : 02 Published: 06 Filed : 04			
Sr. No.	Patent Title	Status	Application No
1	IoT-Based Smart Pain Relief System- Using Acupressure Therapy	Granted	202221070416
2	AI-based network intrusion detection device	Granted	424997-001
3	A system for the automation of devices utilizing brain-computer interface	Published	202121022978
4	An IoT-Based Road Pothole Detection and Alert System	Published	202321052987
5	Analysis of Security and Privacy Issues for Artificial Intelligence in Edge-Cloud Computing	Published	202341060070
6	Integration of Machine Learning with IoT-Based Approaches for Enhancing Automatic Number Plate Recognition	Published	202341075379
7	AI-Driven Adaptive Control Mechanism for Collaborative Human-Robot Manufacturing in Industry 5.0	Published	202511040243
8	Intelligent System for Digital Image Forgery Detection Using Machine Learning and Artificial Intelligence Techniques	Published	202541056864
9	A Real-Time Road Monitoring and Violation Reporting System	Submitted	
10	A Unified Cloud-Based Urban Infrastructure System	Submitted	
11	Development of Elliptic Curve Cryptography-based Hardware Crypto Processor using Vedic multiplier for Lightweight Devices	Filed	-
12	A Machine Learning-Enhanced DNA Nanotechnology Approach for Cancer Diagnosis and Targeted Therapy	Filed	-

JOURNAL PAPERS	
Sr. No.	Title, Publisher, Volume No, Year, Page No etc.
1	Big Data and Blockchain Synergies in Healthcare: Opportunities for Enhanced Decision-Making and Operational Management, Journal of Neonatal Surgery ISSN(Online): 2226-0439 Vol. 14, Issue 17s (2025) (Scopus indexed)
2	Securing the Future: Defending the IoT Ecosystem with Sparse Fuzzy Networks, Journal: Journal of Environmental Protection and Ecology 25(4) (2024) Pages: 1188 - 1199 (Scopus indexed)
3	Hardware Implementation of Elliptic Curve Cryptosystem using Optimized Scalar Multiplication”, Smart Innovation, Systems and Technologies, Vol No 165, ISSN 2190-3018 ISSN 2190-3026 (electronic), ISBN 978-981-15-0076-3 ISBN 978-981-15-0077-0 (eBook), 307-316, 2020 (Scopus indexed)
4	A Novel Efficient Hardware Implementation of Elliptic Curve Cryptography Scalar Multiplication using Vedic Multiplier”, <i>International Journal of Simulation Systems, Science & Technology, United Kingdom Simulation society, United Kingdom</i> , DOI 10.5013/IJSSST.a.19.06.38, ISSN 1473804X, 14738031, 2018 (Scopus indexed)
5	“Hardware Implementation of Efficient Elliptic Curve Scalar Multiplication using Vedic Multiplier”, International Journal of Communication Networks and Information Security (IJCNIS), ISSN: 2076-0930 (Print), ISSN: 2073- 607X Vol. 11, No. 2, August 2019 (Scopus indexed)
6	“Deep Learning-Based Intelligent Diagnostics Framework for The Labelling of Mammogram Image”, in South Eastern European Journal of Public Health (ISSN: 2197-5248), August 2024 (Scopus indexed)
7	Enhancing Agricultural Water Management Through Sensor-Based Irrigation Systems, Journal of Environmental Protection and Ecology 25, No 7, 2234–2244 (2024) (Scopus indexed)
8	From Theory to Practice: Implementing Intelligent Systems in Engineering Applications, International Journal of Intelligent Systems and Applications in Engineering, 2024, ISSN: 2147- 67992, Page No. 4168–4175 (Scopus indexed)
9	Digital Transformation of Classroom; Impact of AI And IoT in the Educational Sector, Educational Administration: Theory and Practice 2024, 30(5), ISSN: 2148-2403, Page 13461-13469 (Scopus indexed)
10	“A Novel Model for Healthcare Emergency using Fog Computing”, Bioscience Biotechnology Research Communications Special Issue Volume 13 Number (14) 2020, Print ISSN: 0974-6455, Online ISSN: 2321-4007 (Scopus indexed)
11	“Voice Based Authentication System for Web Applications using Machine Learning”, International Journal of Next-Generation Computing, Vol. 13, Special Issue No. 5/1312-1319, 2022 (ESCI/ WOS)
12	“Smart College Campus Recruitment System”, International Journal of Next-Generation Computing, Vol. 13, Special Issue No. 5/1280-1285, 2022 (ESCI/ WOS)
13	“IoT Based on Potholes and Speed Breakers Detection and Alert System”, International Journal of Next-Generation Computing, Vol. 13, Special Issue No. 5/1243-1250, 2022 (ESCI/ WOS)
14	“Road Lane Detection System for Self-Driving Car”, International Journal of Next Generation Computing, Vol12, Special issue no 5, November 2021, ISSN2229-4678 . Page 739-746, 2021 (ESCI/ WOS)

15	"Smart Virtual Painter", International Journal of Next Generation Computing, Vol12, Special issue no 5, November 2021, ISSN2229-4678 . Page 747-754 November 2021 (ESCI/ WOS)
16	Digitization of the Classroom AI and IoT Influence in the Education Sector, Journal of Informatics Education and Research, Vol. 4 No. 3 (2024) , ISSN: 1526-4726, 400-408 (UGC Care/ABDC)
17	"Deployment of Docker Services on Private Cloud", International Journal of Innovative Research in Computer Science and Technology, Volume -6, Issue-3, 2018 (UGC Care)

CONFERENCE PAPERS

Sr. No.	Title, Publisher, Year, Page No, Details of Conference
1	"Sign Language Recognition by Hand Gesture for Deaf and Speech Impaired Community using Machine Learning" in "OCIT2024 OITS International Conference on Information Technology " organized by SRM University AP, India, held during 12-14 December 2024 (IEEE)
2	"System Attack Detection using Machine Learning" in "OCIT2024 OITS International Conference on Information Technology " organized by SRM University AP, India, held during 12-14 December 2024 (IEEE)
3	"Student Placement Prediction and Skill Recommendation System using Machine Learning Algorithms" in 7th International Conference on Inventive Computation Technologies (ICICT24) , held at Lalitpur, Nepal, held during 24th April to 26th April, 2024, organized by Tribhuvan University, Nepal (IEEE)
4	"Testing Resiliency of AWS Services using the Concept of Chaos Engineering", 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks - ICICV 2024 , organized by Francis Xavier Engineering College, Tirunelveli, India, during March 11th to March 12th, 2024. (IEEE)
5	"Remotely Managed IoT-Based Smart Irrigation System", 4th International Conference on Emerging Systems and Intelligent Computing (ESIC- 2024) to be organized at the School of Computer Engineering, KIIT Deemed-to-be University, Bhubaneswar, India, scheduled to be held during 9th to 10th February 2024 (IEEE)
6	"A Macroeconomic Approach for Insurance Applications Based on ANN-SVM Method", 2024 International Conference on Computer Communication and Informatics (ICCCI) organized by Sri Shakthi Institute of Engineering and Technology (SIET), Coimbatore, India, during January 29-31, 2024, (IEEE)
7	"Development of a Mobile App to Detect Counterfeit Currency using Machine Learning", 6th International Conference on Recent Trends in Advanced Computing (ICRTAC'23) (IEEE Record Number- 59277) during December 14th - 15th, 2023, Organised by, School Of Computer Science and Engineering, In Collaboration with VIT Business School, Vellore Institute of Technology, Chennai Campus (IEEE)
8	"A Review of Web Services Research: Current Trends and Future Directions in Computer data Security", International Conference on Communication, Security and Artificial Intelligence (ICCSAI) , organized by Galgotia University, Greater Noida, UP, India during 23-25 Nov. 2023 (IEEE)

9	Rakesh K Kadu, P J Assudani, S Bhojane, T Agrawal, V Siddhawar and Y Kale, "Voice Based Authentication System For Web Applications Using Machine Learning", 2nd International Conference on Innovative Computing and Applications (ICICA22) , RCOEM, November 2022
10	Rakesh K Kadu, Purshottam J Assudani, Rizwan Sheikh and Tushar Khanna, "SMART COLLEGE CAMPUS RECRUITMENT SYSTEM", 2nd International Conference on Innovative Computing and Applications (ICICA22) , November 2022
11	Rakesh K Kadu, Ayushi Mishra, Devang Baheti and Himangi Pilkawar, "IoT BASED ON POTHOLE AND SPEED BREAKERS DETECTION AND ALERT SYSTEM", 2 nd International Conference on Innovative Computing and Applications (ICICA21), November 2022
12	Rakesh K Kadu, Purushottam J. Assudani, Manvi Jaiswal, Druvsingh Bist and Ankush Tickoo, "ROAD LANE DETECTION SYSTEM FOR SELF-DRIVING CAR", International Conference on Innovative Computing and Applications (ICICA21), November 2021
13	Rakesh Kadu, Prof. Purshottam J Assudani, Dr. Rakesh K Kadu, Prof. Ashish V Chandak, Varunesh Agrawal, Sanskar Khandelwal, Hardik Singhavi, "SMART VIRTUAL PAINTER", International Conference on Innovative Computing and Applications (ICICA21), November 2021
14	Rakesh K Kadu and D S Adane, Ashish Virendra Chandak, "A NOVEL MODEL FOR HEALTHCARE EMERGENCY USING FOG COMPUTING", International Conference on Intelligent Systems, Data Science and Computing (ICISDSC) , Organized by Department of Computer Science and Engineering, RCEOM, Nagpur, 2020
15	Rakesh K. Kadu and Dattatraya S. Adane, "HARDWARE IMPLEMENTATION OF ELLIPTIC CURVE CRYPTOSYSTEM USING OPTIMIZED SCALAR MULTIPLICATION", Third International Conference on Smart Trends in Information Technology and Computer Communications, (SmartCom 2019) , 24-25 th January 2019, Bangkok, Thailand
16	Rakesh K. Kadu, "IMPLEMENTATION AND SIMULATION OF WIRELESS SENSOR NETWORK USING PTOLEMY II SIMULATOR", National Conference on Emerging Trends in Engineering Science and Technology Organized by College of Engineering, Roorkee (March 29-30, 2014)
17	Rakesh K. Kadu, "STUDY AND IMPLEMENTATION OF OPTIMIZED SCALAR MULTIPLICATION TECHNIQUES FOR ELLIPTIC CURVE CRYPTOGRAPHY", National Conference on Emerging Trends in Engineering Science and Technology Organized by College of Engineering, Roorkee, (March 29-30, 2014)
18	Rakesh K. Kadu, "STUDY OF SECURITY ISSUES IN WIRELESS SENSOR NETWORK", National Conference on Emerging Trends in Engineering Science and Technology Organized by College of Engineering, Roorkee, (March 29-30, 2014)
19	R. K. Kadu, A. S. Sambare, "A STUDY OF MACHINE TRANSLATION – PAST, PRESENT AND THE FUTURE", International Conference on "Innovative Practices in management and Information Technology for Excellence (2010)", SRIJAN 10, organized by Maharaja Agrasen Institute of Management on 8th May 2010, Jagadhari, Haryana, India
20	R. K. Kadu, A. S. Sambare, "EFFICIENT MULTI -FEATURE QUERY PROCESSING USING CLUSTERING TECHNIQUE", International Conference on "Innovative Practices in management and Information Technology for Excellence (2010)", SRIJAN 10, organized by Maharaja Agrasen Institute of Management on 8th May 2010, Jagadhari, Haryana, India
21	R. K. Kadu, Prof. N. V. Chaudhari, "A STUDY OF DIFFERENT POWER SAVING TECHNIQUES FOR MOBILE AD HOC NETWORK", International Conference on Computer Science and Information Technology (ICCSIT 2008), organized by IACSIT and Sichuan Computer Federation. Singapore August 29 - September 2, 2008,

22	R. K. Kadu, Prof. N. V. Chaudhari, "POWER SAVING IN ROUTING PROTOCOL USING CLUSTERING FOR MOBILE AD HOC NETWORK", International Conference on Digital Factory (ICDF 2008), 11-13 August 2008, organized by Coimbatore Institute of Technology, Coimbatore. India
23	Rakesh K Kadu, "PERFORMANCE ANALYSIS & POWER SAVING IN MOBILE AD HOC NETWORK", National Conference on Algorithms 2008(NCA-2008), organized by Fr. Conceicao Rodrigues College of Engineering, Mumbai.
24	Attended FIRST INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING, organized by G. H. Raison College of Engineering & Technology, Nagpur, India, 2008
25	Attended "NATIONAL CONFERENCE ON EMERGING TRENDS IN COMMUNICATION & IT", organized by Rayat Institute of Engineering & IT, Punjab, 2007
26	Rakesh K Kadu, "KNOWLEDGE BASE SYSTEM & EXPERT SYSTEM", National Conference "Technologia 2005", organized by Christian College of Engineering & Technology (MPCCIT), Bhilai, MP, India
27	Rakesh K Kadu "WIRELESS APPLICATION PROTOCOL (WAP)", National Conference "Technologia 2005", organized by Christian College of Engineering & Technology (MPCCIT), Bhilai, MP, India

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Storage Management in the Linux Operating System

SPONSORED RESEARCH PROJECTS UNDER TAKEN

Agency	Title	Amount	Period	Investigator/ Co-Investigator	Status
JSW Steel, Kalmeshwar, Nagpur	Design and Deployment of CCTV-based Real-Time Surveillance and Alert System	17,50,000	08 Months	Investigator	Submitted
JSW Steel, Kalmeshwar, Nagpur	Real-Time Color Shade Comparison for Painted Steel Sheet	10,00,000	06 Months	Investigator	Submitted
RCOEM Young Faculty Research Funding Scheme (YFRF)	Safety Gear Detection in the Manufacturing Industry using AI	2 lacs	01 years	Co-Investigator	On-going
DST Science and Engineering Research Board (SERB)	Design and Development of Crypto-processor for Lightweight Devices	24,50,000/-	03 years	Investigator	Submitted
RGSTC Scheme	Safety Gear Detection in the	2,50,000/-	01 Year	Co-Investigator	Submitted

under RTMNU	Manufacturing Industry using Artificial Intelligence				
DST - Technology Interventions for Disabled and Elderly (TIDE) Proposal	Design and Development of a Smart Bed for Patients	38,00,000	03 years	Co-Investigator	Submitted
Pradhan Mantri Kaushal Vikas Yojana (PMKVY) Scheme	Training conducted for School Students	8,00,000/-	02 times	Co-Investigator/Trainer	Completed
RGSTC-TIFAC-MSME Internship Scheme	Smart Pain Relief System- Using Acupressure Therapy	60,000/-	01 year	Mentor	Completed

RESEARCH GUIDANCE

(Approved PhD Supervisor in RTM Nagpur University and Ramdeobaba University)

	Awarded	Thesis Submitted	Registered
Ph. D.	Nil	Nil	03

PROJECT GUIDANCE/Mentorship

- Guiding the student in developing “**One City One Portal: A Smart Urban Infrastructure Model for Nagpur**” for Nagpur City under the guidance of Hon’ble Shri Nitinji Gadkari, *Minister of Road Transport and Highways, Government of India.*
- Guided 60-plus UG projects and converted to patents and publications
- Guided students' team for Rajiv Gandhi Science & Technology Commission (RGSTC) MSME Internship Scheme, Government of Maharashtra, for providing technical support to the Micro Small and Medium enterprises (MSMEs) by leveraging the capabilities of students and faculty of engineering & technical institutions
- Guided students' projects for the GIZ Germany Internship program
- Mentored the student team for Smart India Hackathon(SIH) organized by AICTE & MoE Innovation Cell, Government of India.

AWARDS / RECOGNITIONS /FELLOWSHIPS etc.

Received Best Teacher Award at G. H. Rasoni Polytechnic, Nagpur

PROFESSIONAL SOCIETY MEMBERSHIP

Sr. No.	Organization	Grade of Membership
1.	ISTE	Life Time

2.	Computer Society of India (CSI)	02 years
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ACADEMIC OUTREACH ACTIVITIES (STTP/WORKSHOP/CONFERENCES, ETC. ORGANIZED AS ADVISOR/CONVENER/COORDINATOR/ORGANIZING SECRETARY ETC.)

- **Publication Chair**, *International Conference on RBUCON.Computing'25: Future Computing Technologies for Societal Development* Organized by School of Computer Science and Engineering, Ramdeobaba University (RBU)
- **Organizing Secretary**, *2nd International Conference on Innovative Computing and Applications (ICICA'22)*
- **Organizing Secretary**, *1st International Conference on Innovative Computing and Applications (ICICA'21)*
- **Organizing Committee Member**, *AICTE-Sponsored FDP on "Computational Linguistics: Techniques and Applications"*, December 2019
- **Coordinator**, *"Colosseum" – National Level Technical Fest* organized under Semicolon Tech Club, RCOEM (2010–2023)
- **Co-Coordinator**, *One-Week Faculty Enablement Program on "Virtualization and Cloud Computing"*
Organized by the Department of IT, RCOEM in collaboration with Infosys, Pune
- **Co-Coordinator**, *One-Week FDP on "Mobile Applications Development"*
Organized by the Department of IT, RCOEM in collaboration with Infosys, Pune
- **Co-Coordinator**, *One-Week FDP on "Internet of Things (IoT)"*
Organized by the Department of IT, RCOEM in collaboration with Infosys, Pune
- **Coordinator**, *Two-Day Workshop on National Security Championship (India)*
Conducted in association with ACM and IIT Delhi, 2014

ACADEMIC OUTREACH ACTIVITIES (STTP/WORKSHOP/CONFERENCES ETC. ATTENDED)

Faculty Development Programs (FDPs)

- **AI & Generative Models** – One-week FDP, Vishwakarma Institute of Technology, Pune (Jan 2024)
- **Data Driven Technologies & Applications** – FDP, JD College of Engineering and Management, Nagpur (Dec 2023)
- **Outcome-Based Pedagogic Principles for Effective Teaching** – NPTEL-AICTE (2023)
- **Smart Contracts & Blockchain Technologies** – Two-week FDP, NIT Warangal (2023)
- **Software Testing** – One-week national workshop, NIT Warangal (2022)
- **Machine Learning for Software Engineering** – Two-week FDP, NIT Warangal & KIIT (Nov 2021)
- **Internet of Things (IoT)** – One-week FDP, AICTE-ATAL, SASTRA University (Feb 2021)
- **Linux OS** – One-week FDP, Pimpri Chinchwad Polytechnic, Pune in collaboration with IIT Bombay (May 2020)
- **Python Programming** – FDP, Dwarkadas J. Sanghvi College of Engineering, Mumbai (May 2020)
- **Computational Linguistics: Techniques and Applications** – AICTE Sponsored FDP (Dec 2019)
- **IBM DB2** – FDP, YCCE, Nagpur in collaboration with IBM (April 2010)

Industry-Aligned Faculty Enablement & Training Programs

- **Mobile Apps Development** – Faculty Enablement Program, RCOEM with Infosys, Pune
- **Train the Trainer: IoT** – RCOEM & Infosys
- **STTP: Virtualization & Cloud Computing** – RCOEM & Infosys
- **Train the Trainer: Latest Trends in IT** – Infosys, Pune
- **Rational Software Architect** – IBM SEED Program (Nov 2013)

Workshops & Short-Term Training Programs

- **Red Hat Enterprise Linux 8** – COSSINDIA, Bangalore (Jan 2020)
- **Machine Learning with Graph** – Sagar Institute of Research & Technology, Bhopal (2021)
- **Blockchain Technology** – Ganpat University (2020)
- **Image Processing** – Babasaheb Naik College of Engineering, Pusad (2007)
- **Networking Trends** – ISTE-approved STTP, RCOEM (2007)
- **Intellectual Property Commercialization** – TurnIP Innovation Pvt. Ltd.

Webinars Attended (2020–2021)

- **AWS Services Overview** – Priyadarshini Bhagwati College of Engineering, Nagpur
- **IoT & OPC UA, Post-COVID Challenges, IoT: A New Era, 21st Century Pedagogical Innovations** – RCOEM
- **Image Processing Applications** – AIMIT, Mangalore
- **IoT Using ARDUINO** – Dr. Shyam Mukherjee University
- **Face Recognition with Deep Learning** – Balaji Institute of Tech. & Science, Warangal
- **Design of Brain-Control Applications** – NIT Jalandhar
- **Natural Language Processing** – Siddhartha Institute of Tech. & Sciences

- **IoT Using Raspberry Pi** – Institute of Engineering & Technology
- **IP Awareness** – National Intellectual Property Awareness Mission

Faculty Orientation

- **Faculty Orientation Program** – ISTE Chapter, RCOEM (2009)

Expert Lectures Delivered:

- **Workshop Facilitator** – *"Introduction to Web Technologies"*, conducted for Class XI students at Bhavan's Vidya Mandir, Ashti, Nagpur
- **Guest Speaker** – *"Virtualization and Cloud Computing"*, delivered at G. H. Raison Academy, Nagpur
- **Expert Lecture** – *"Linux Operating System"*, conducted for IV Semester Biomedical Engineering students, RCOEM
- **Invited Talk** – Delivered a session for Final Year students, *Department of Electrical Engineering*, Guru Nanak Institute of Engineering and Technology, on 22nd January 2014
- **Invited Talk** – Delivered a session for Final Year students, *Department of Electronics and Telecommunication Engineering*, Guru Nanak Institute of Engineering and Technology, 2014

ADMINISTRATIVE RESPONSIBILITIES:

Position	Duration	Key Responsibilities
Professor In-Charge, RCOEM CCTV Surveillance System	<i>2014 – Present</i>	<ul style="list-style-type: none"> - Oversaw procurement, deployment, and maintenance of campus-wide CCTV infrastructure. - Managed system upgrades and ensured continuous surveillance operations.
Professor In-Charge, MIS Department, RCOEM	<i>2014 – 2016</i>	<ul style="list-style-type: none"> - Established the MIS Department from inception. - Procured IT infrastructure, including computers, networking devices, and biometric systems. - Supervised institute-wide network management. - Maintained inventory of departmental computing equipment.
Professor In-Charge, JUNO ERP System	<i>2014 – 2016</i>	<ul style="list-style-type: none"> - Procured and implemented the new ERP system at RCOEM. - Collaborated with Persistent Systems Ltd. for the design and development of all ERP modules. - Managed the overall functionality and performance of the JUNO ERP system.
Professor In-Charge, EduManage ERP System	<i>2013 – 2014</i>	<ul style="list-style-type: none"> - Coordinated the development of the EduManage ERP system in collaboration with Locus Technology, Bangalore. - Oversaw deployment and management of the ERP system across the institute.

PROFESSIONAL DEVELOPMENT & VALUE ADDITION:

- **Professional & Industry Certifications:**
 - **RedHat Certified System Administrator (RHCSA)** – RedHat Certification in Linux system administration.
 - **Scrum Master Certification** – *Scrum Methodologies & Agile Practices*.
 - **Google Cloud Certifications:**
 - *Introduction to Security Principles in Cloud Computing*
 - *Introduction to Generative AI*
 - *Introduction to Large Language Models*
 - *Introduction to Responsible AI*
 - *Responsible AI: Applying AI Principles with Google Cloud*
 - *Prompt Design in Vertex AI*
 - *Preparing for Your Professional Cloud Network Engineer Journey*
 - *Google Analytics Certification*
 - **Cybersecurity Certifications:**
 - *ISC² Cybersecurity Fundamentals*
 - *Introduction to Critical Infrastructure Protection (CIP)* – OPSWAT Academy
- **Academic & Pedagogical Certifications:**
 - *NPTEL Certification: Outcome-Based Pedagogic Principles for Effective Teaching*
 - *Coursera Certifications:*
 - *AWS Fundamentals: Addressing Security Risk*
 - *AWS Fundamentals: Going Cloud Native*
 - *Introduction to Scrum Master Training*
 - *Introduction to Generative AI*
- **Editorial & Reviewing Roles:**
 - **Reviewer**, *Frontiers in Computer Science*, International Journal
 - **Paper Reviewer**, *RBUCOM25 International Conference*
 - **Reviewer**, *4th International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2024)* – Banaras Hindu University, Varanasi
 - **Reviewer**, *2nd International Conference on Signal Processing, Communication, Power, and Embedded Systems (SCOPES-2024)* – Centurion University, Odisha
 - **Reviewer**, *Sigma Journal of Engineering and Natural Sciences* (E-ISSN: 1304-7205)
 - **Reviewer**, *IEEE 2nd International Symposium on Sustainable Energy, Signal Processing & Cybersecurity (iSSSC-2022)* – GIET University, Odisha
 - **Book Reviewer**, *"Digital System Design Using Verilog HDL"*, Elsevier
 - **Editorial Board Member**, *Internet of Things and Cloud Computing (IOTCC)*, Science Publishing Group, New York, USA
- **Evaluator**, *ToyHackathon 2021* – Organized by the Ministry of Education, Innovation Cell, Government of India.

INSTITUTIONAL CONTRIBUTIONS AND LEADERSHIP ROLES:

- **Professor In-Charge**, *Pratishruti25* – Annual cultural fest at RCOEM.
- **Professor In-Charge**, *RCOEM CCTV Surveillance System*.
- **Professor In-Charge**, *Management Information System (MIS) Department*.
- **Professor In-Charge**, *JUNO ERP System* – Oversaw implementation and management.

- **Professor In-Charge**, *EduManage (Old ERP System)*.
- **Course Conductor**, *Value-Added Course on “RedHat8 Operating System”* for RCOEM students.
- **Member**, *RCOEM Disciplinary Committee*.
- **IQAC Member and In-Charge**, *Configuration of Student Feedback System* at the institute level.
- **Coordinator**, *“Colosseum” – A National Level Technical Event* under Semicolon Tech Club, RCOEM (Since 2009).
- **Program Coordinator**, *RedHat Certified System Administration (RHCSA)* training and certification, in collaboration with COSS, RedHat Academy Partner, Bangalore, India at CIIT-RCOEM.
- **Member**, *RCOEM SEAINDIA Collegiate Club*.
- **ISO Auditor**, RCOEM (Since 2010).
- **Event Prof. In-Charge**, *Pratishruti*, RCOEM Annual Fest.
- **Coordinator**, *Smart India Hackathon 2018*.
- **Organizer**, *Smart India Hackathon 2019*.
- **Coordinator**, *Smart India Hackathon 2022*.
- **Committee Member**, *NBA Peer Team Visit*.
- **Committee Member**, *NAAC Peer Team Visit*.
- **Co-Officer In-Charge**, *End-of-Semester Examinations*, RCOEM.

DEPARTMENTAL AND SCHOOL-LEVEL CONTRIBUTIONS:

- **Coordinator**, *IoT and Edge AI Lab* – Currently overseeing the development and setup of the lab.
- **IQAC Member**, *RBU School of Computer Science and Engineering*.
- **Student Activity In-Charge**, *Information Technology Department*, RCOEM (Since 2009).
- **Academic Coordinator**, *Information Technology Department*, RCOEM and RBU School of CSE. Coordinated and developed curriculum for AICTE, NEP and the University
- **Coordinator**, *Department of Infrastructure Upgradation Projects*.
- **IQAC Coordinator**, *Information Technology Department*.
- **Class Coordinator** – Responsible for academic and administrative coordination at the class level.
- **Departmental Alumni Coordinator** – Liaison for alumni engagement and outreach initiatives.
- **Departmental MIS Coordinator** – Oversaw departmental data management and reporting.
- **In-Charge**, *Departmental Stock Maintenance*.
- **Lab In-Charge**, *Departmental Laboratories* – Responsible for lab setup, maintenance, and scheduling.

Dr. Rakesh K. Kadu

Place : Nagpur