Name of Teaching Staff	**:**	Dr. Shilpa M. Satre
Designation	**:**	Assistant Professor
Department	**:**	Computer Science and Engineering (IOT and Cyber Security with Block Chain Technology)
Date of Joining the Institution	**:**	19th September 2024
Email ID	**:**	Shilpamshelar.3184@gmial.com Shilpa.satre@djsce.ac.in
Office Contact	**:**	**Mobile** : 9870632732
Google Scholar Link	**:**	https://scholar.google.com/citations?user=yGryS0UAAAAJ&hl=en
ORCID		https://orcid.org/0000-0001-6479-7838
Publons Researcher ID	**:**	KVB-5758-2024
Qualifications with Class /Grade	**:**	**Educational Qualification**

Degree	Year of Passing	Board/ University	Percentage/ Class
PhD Computer Engg.	2026	Deemed to be University Ramrao Adik Institute of Technology, Nerul Mumbai	**PhD Registration No: RAIT/PHDCE/ JULY/2021/020**
ME- Computer Engg.	2016	University of Mumbai	CGPI 8.34
BE-Computer Engg.	2008	University of Mumbai	First Class- 62%
Diploma in Computer Engg.	2004	MSBTE Mumbai	First Class 71.44%
SSC	1999	Maharashtra State Board of Secondary and Higher Secondary Education, Pune	60.40% First class

Total Experience in Years : Teaching : **11 Years**
Industry Experience : **1 Year**

Papers Published in : **List of Papers published in International and National Journals**

Journal:

SR. No.	Title of Research Paper	Name of the Journal Scopus Indexed	Month & Year of Publication
1	QoS-Oriented Adaptive Expedient Broadcast Routing for Hybrid Wireless Network	https://www.scopus.com/authid/detail.uri?authorId=57191226 985 IEEE Explore	August 2016
2	Knowledge Engineering in Higher Education	Springer	Springer October 2020
3	Network Performance Evaluation in Software-Defined Networking		Springer October 2020
4	Online Exam Proctoring System Based on Artificial Intelligence	IEEE Explore	August 2023
5	Analysis on Quantum Cryptographic Approaches for Image Encryption		August 2023
6	Text Comparison Based on Semantic Similarity		August 2023
7	An Effective BiLSTM-CRF Based Approach to Predict Student Achievement: An Experimental Evaluation		March 2024
8	Quantum image cryptography based on continuous chaotic maps	Microsystem Technologies	September 2024
9	Blockchain-based privacy preservation framework for preventing cyberattacks in smart healthcare big data management systems	Multimedia Tools and Applications	September 2024
10	Battery Management System in Electric Vehicle for Energy Storage System Using Extended Kalman Filter and Coulomb Counting Methods	Journal of Energy Storage	January 2025
11	AI-Based Prediction of Transmission Quality in Cognitive Optical Networks	Journal of Optical Communications	January 2025

SR. No.	Title of Research Paper	Name of the Journal Scopus Indexed	Month & Year of Publication
12	Quantum image cryptography based on discrete chaotic maps	Quantum machine intelligence	February 2025
13	Enhancing the Power of Advanced Arnold Cat Map for Secure Quantum Image Cryptography	SN Computer Science	Springer October 2025

Books Published / IPRs /

Book Chapter Publication :
book title "Harnessing Quantum Cryptography for Next-Generation Security Solutions" by IGI Global Publication.

Chapter Name: Quantum Image Cryptography of Gingerbreadman Map by Using Pixel Shuffling. **Indexed: Scopus (2024)**

Patents

Patent Published :
1) Title: Deep Learning Analytical Monitoring of IOT Based smart Vehicles to avoid Cyber Attacks.
Docket No:
39244 Status:
Published
Application No: 202321032635

2) Title: Quantum Information Science
Docket No: 133221
Status: Published
Application number: 202311072102

3) Title: Self Learning Reinforcement Approach to Optimize Network Path with Software Router
Docket Number:24497
Application No:
202221024629 Status:
Published

4) Title: Predictive Maintenance of Machines Using AI & ML based Controllers Patent Publication No: 202441083160
Status: Published

Subjects Taught	• Computer Programing Language JAVA.
UG Level:	• Database Management System
	• Computer Programing Language PYTHON.
	• Wireless Technology and Wireless Networks.
	• Advanced Data Management Technology
	• Principles of Communication
	• Software Testing and Quality Assurance
	• Distributed Systems

Institute/ Department Responsibilit y handled:	**Responsibilities and Event organized at Institute Level**
	• Admission Cell Coordinator.
	• Webinar Coordinator.
	• NBA Criteria 3 Referenced Files.
	• Cultural Committee Coordinator.
	• Counselling and Mentoring.
	• Farewell Coordinator.
	• Industrial Visit Organizer.