

SNJB's Shri Hiralal Hastimal (Jain Brothers, Jalgaon) Polytechnic, Chandwad

(All AICTE Approved Programs NBA Accredited)

Department: Computer Technology

Faculty Profile

Name of Faculty: DR. Vishal Ashok Wankhede



Qualification :	Ph.D. in Electronics (Wireless Communication), Sardar Vallabhbhai National Institute of Technology (SVNIT) , Surat , Gujrat, July 2014.
Designation :	Principal
Date of Joining :	6th May 2019
Experience :	06 Years 11 Months
Teaching/research Areas :	Wireless Communication
Courses / Subjects Taught :	EMBEDDED SYSTEM, EMERGING TRENDS IN ELECTRONICS
Staff training/FDP attended in last 3 Years	
Paper presentation /conferencesattended	1. Zika Virus Prediction in Health Care Using AI and Optimaization Technique. 2. MSBTE Diploma (Basic Chemistry) Book 3. Adversial Machine learning in the context of cyber security. 4. Fabrication and Testing Of Poly-Lactic Acid(PLA) Hybrid Bio-Camposites blended with Walnut shell and egg shell powder. 5. Advancing early Dengue detection through machine learning technique on clinical data 6. Design of an Efficient multi modal correlation engine for smart IoMT Imaging system for pre-emptive analysis of breast cancer stages. 7. Agriculture Baesd Automatic Sprinkling Robot 8. Automatic Weeding Robot Real-Time Crop Monitoring and Precision Spraying Using Smart Agricultural Drone
Paper published in journals	1. Adversarial Machine Learning in the context of Cybersecurity 2. Advancing Early Dengue Detection through Machine Learning Techniques on Clinical Data 3. Design of an Efficient Multimodal Correlation Engine for Smart IoMT Imaging System for Pre-Emptive Analysis of Breast Cancer Stages 4. Securing the Digital Frontier: The Role of Technology in Social Medical Public Healthcare Security 5. Modified elliptic curve cryptography for efficient data protection in wireless sensor network 6. EAKRR : An energy-efficient key management in WSN with ECC-based cryptography 7. Exploring explainable AI in pharmaceutical decision-making:Bridging the gap between black box models and clinical insights

	8. Designing a Decentralized IoT-WSN Architecture Using Blockchain Technology 9. Energy-Efficient Localization Techniques for Wireless Sensor Networks in Indoor IoT Environments 10. Intelligent Transportation System using Vehicular Networks in the Internet of Vehicles for Smart cities 11. Globalization and Public Health: An Examination of Cross-Border Health Issues 12. A mechanism to ensure identity-based anonymity and authentication for IoT infrastructure using cryptography 13. Analyzing the Impact of Impulsive Noise on spectrum sensing Techniques for Cognitive Radio Networks SCOPUS Index 14. "DQSCTC: design of an efficient deep dyna-Q network for spinal cord tumour classification to identify cervical diseases." 15. Deep learning and image processing-based early detection of Alzheimer disease in cognitively normal individuals" 16. HDFRMAH: design of a high-density feature representation model for multidomain analysis of human health issues" 17. Assessment of Seismic Hazards in Underground Mine Operations using Machine Learning" 18. "Development of smart machine for sorting of deceased onions", Scopus Index Indonesian 19. Suboptimal resource allocation scheme for scalable video multicast in integrated mobile WiMAX/WLANs network", 20. Optimize Transmission of Image over Integrated Mobile WiMAX and WiLAN Network", 21. Genetic Algorithm Based QoS Aware Adaptive Subcarrier Allocation in Cognitive Radio Networks 22. "An Optimum Approach for Radio Resource Allocation (RRA) in Mobile WiMAX Network", LNCS 7135 ,ADCONS 2011, 23. FACE MASK DETECTION USING DEEP LEARNING BASED ON NEURAL NETWORK ANALYZER",
Books published with ISSN/ISBN number :	
Participation in MSBTE activities (RAC/DC/Theory/PR Exam/Curriculum development)	1.Chief Officer In-charge (Chief OIC) for RAC, DEC, DC, EC. 2. Chairman for MSBTE External Monitoring Committee 3. Course Expert for MSBTE Paper Setter 4. Institute Coordinator for MSBTE Bilingual Material Development for Civil Engineering Department 5. Institute Coordinator for MSBTE Lab Manual Development for Civil Engineering Department 6.Worked as External Examiner for MSBTE Practical Exam 7.Worked as Chairman for External Vigilance MSBTE Theory Exam

List of Projects guided at diploma level last 3 years	Agricultural Drone Spraying IOT based notice board Surveillance Drone with landmine detection
Role and responsibilities at institute Level	Chair Persons for Following Committees CII Committee, Media Cell Committee, Internal Academic Monitoring Committee (IAMC)
Role and responsibilities at department level	1. Course Teacher for i.Embedded System, ii.Emerging Trends In Electronics 2.Project Guide for Final Year Students 3.Industry Sponsored Lab Development
Major achievements in last 5 years	1. Serving as Approved Principal at SNJB's Shri Hiralal Hastimal (Jain Brothers) Polytechnic, Chandwad since May 2019, approved by MSBTE, Mumbai. 2. Recipient of Best Polytechnic Principal Award (2022) from Indian Society for Technical Education, New Delhi. 3. Successfully led NBA accreditation for all AICTE programs (Civil, Computer, E&TC, Mechanical); Mechanical Engineering secured 717 marks, valid up to June 2026. 4. Played a key role in academic leadership and institutional development, ensuring quality technical education and governance. 5. Contributed to strengthening academic systems, accreditation processes, and institutional performance at the polytechnic level. 6. Continued active involvement in research, publications, and academic review work with reputed journals (IEEE, Elsevier, Springer).
Professional membership if any	Indian Society of Tech Education Institution of Engineers