

Faculty Profile

Faculty Name	Dr. Devendra Prasad
Designation	Professor
Qualification	B. E., M. Tech., Ph.D.
Email	prasad.cse@piet.co.in
Area of Interest	Sensor Network, Machine Learning, IoT
Work Experience (Total)	
<ul style="list-style-type: none"> • Teaching 	25 Yrs
<ul style="list-style-type: none"> • Research 	12 Yrs
<ul style="list-style-type: none"> • Industry 	NIL
<ul style="list-style-type: none"> • Others 	-
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Data Structure, Computer Algorithms, Microprocessor and Interfacing, Computer Architecture, Computer Network, Operating System, Programming Language etc.
Membership of Professional Bodies	<ul style="list-style-type: none"> • Association for Computing Machinery (ACM): 8074364 • Institute of Electrical and Electronics Engineers (IEEE): 93943536 • International Association of Engineers (IAENG): 172154. • Member of Computer Science Teachers Association (CSTA)
Research Publications	
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	
<ul style="list-style-type: none"> • Research Papers SCOPUS 	24
<ul style="list-style-type: none"> • Research Papers WoS/SCI/ABDC 	12
<ul style="list-style-type: none"> • List of Publications 	<ul style="list-style-type: none"> • Performance Evaluation of Sink Mobility on QoS Parameters for Group Mobility Models in Wireless Body Area Network (WBAN)

	<ul style="list-style-type: none"> • An Improved Binomial Distribution-based Trust Management Scheme for Remote Patient Monitoring in WBANs • Gauging the Impact of Artificial Intelligence and Mathematical Modeling in Response to the COVID-19 Pandemic: A Systematic Review • An Energy Efficient QoS Supported Optimized Transmission Rate Technique in WBANs • An Efficient Data Delivery Scheme in WBAN to Deal with Shadow Effect due to Postural Mobility • Glider Assisted Schemes to Deploy Sensor Nodes in Wireless Sensor Networks • NADS: Neighbor Assisted Deployment Scheme for Optimal Placement of Sensor Nodes to Achieve Blanket Coverage in Wireless Sensor Network • Policy for planned placement of sensor nodes in large scale wireless sensor network • Deployment schemes in wireless sensor network to achieve blanket coverage in large-scale open area: A review • Convergence of Blockchain technology with machine learning for secure communication and networking in WBANs-A Survey • A Review on Existing IoT Architecture and Communication Protocols used in Healthcare Monitoring System • Mathematical model to analyse the effect of quarantine on spread and containment of COVID-19 • Stock Movement Prediction Using Neuro Genetic Hybrid Approach and Impact on Growth Trend due to COVID-19 • Wireless body area network (WBAN): A review of schemes and protocols • Suicidal Behaviour Screening using Machine Learning Techniques • Framework for Reducing Response Time using Semi-Distributed Load Balancing • Hybrid Weighted Random Forests Method for Prediction & Classification of Online Buying Customers • MRI Brain Tumour Detection & Image Segmentation by Hybrid Hierarchical K-means clustering with FCM based Machine Learning Model • A Hybrid Tumour Detection and Classification Based on Machine Learning • An Efficient Load Balancing Method by Using Machine Learning-Based Virtual Machine Distribution and Dynamic Resource Mapping • Asynchronous Media Access Control and Cross layer
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	<p>optimizations for WSNs: An Energy Efficient Perspective</p> <ul style="list-style-type: none"> • Breast Cancer Prediction and Classification using Supervised Learning Techniques • Detection of Diabetic Patterns using Supervised Learning • Ant Colony Based Data Aggregation in Real Time Wireless Sensor Networks • System Model for Smart Precision Farming for High Crop Yielding • An Internal Schematic View and Simulation of Major Diagonal-Mesh-Network-on-Chip • System Model for Prediction Analytics using K-Nearest Neighbors algorithm • Fast Network Path Restoration through modified Finite State Machine model in Border Gateway Protocol • Data delivery mechanism in wban considering network partitioning due to postural mobility • Two-Way Energy Efficient Localization Scheme for Mobile Wireless Sensor Networks • Hierarchical Fault Tolerant Adaptive and Scalable Protocol for Data Dissemination in Wireless Sensor Network: HiFAS • Pneumatic launcher based precise placement model for large-scale deployment in wireless sensor networks • TDMA Based Delay Sensitive And Energy Efficient Protocol For Wban • A Reliable Security Model Irrespective of Energy Constraints in WSNs • Distributed Deployment Scheme for Homogeneous Distribution of Randomly Deployed Mobile Sensor Nodes in Wireless Sensor Network • Timeslot Allocation And Management Scheme To Deal With Emergency Data In Wireless Body Area Network
<p>Book and Chapter Publications</p>	
<ul style="list-style-type: none"> • Books Authored published by International Publishers 	<p>01</p>
<ul style="list-style-type: none"> • Books Authored published by National 	

Publishers	
<ul style="list-style-type: none"> • Publication of Chapter in Edited Books 	04
<ul style="list-style-type: none"> • Editor of Book by International Publishers 	
<ul style="list-style-type: none"> • Editor of Book by National Publishers 	
<ul style="list-style-type: none"> • Translation Work of Book 	
<ul style="list-style-type: none"> • List of Book and Chapter Publications 	<p>Book</p> <p>Title: Reliable Data Dissemination in Mobile Publisher: Wireless Sensor Networks Lambert Publishers, Germany, 2012 ISBN: 3659292222</p> <p>Book Chapter</p> <p>Title: Integration of Internet of Things (IoT) in Health Care Industry: An Overview of Benefits, Challenges, and Applications Publisher: CRC Press Taylor and Francis ISBN: 9781003132080</p> <p>Title: Impact of Deep Learning and Machine Learning in Industry 4.0 Publisher: CRC Press Taylor and Francis ISBN: 9781003146711</p> <p>Title: Analysis for Early Prediction of Diabetes in Healthcare using Classification Techniques Publisher: Chapman and Hall/CRC ISBN: 9781032105680</p>
Patents	
<ul style="list-style-type: none"> • Granted 	02
<ul style="list-style-type: none"> • List of Granted 	Title: Designing a Model to Detect Diabetes using Machine Learning (2021103883)

patent(s)	Title: Covid19 Intelligent Detection System (2021100784)
• Published	05
• List of published patent(s)	<p>Title: WOMAN SAFETY HIDDEN MALICIOUS CHIP USING IOT- BASED TRACKING TECHNOLOGY (202111008095)</p> <p>Title: Design of IoT based air pollution control using Wi-Fi sensor device integrated to cloud computing (202141001108)</p> <p>Title: SYSTEM FOR DISPLAYING SHORT PREVIEWS (201711031448)</p> <p>Title: A Centrifugal Cannon based Sprinkler (CCS) system mounted on a deployment helicopter and method thereof (201811010041)</p> <p>Title: Glider Assisted System for Precise and Efficient Deployment of Sensor Nodes in Wireless Sensor Networks (201811042951)</p>
• Filed	05
• List of filed patent(s)	<p>Title: ANALYSIS OF HEATH CARE CHATBOT USING ARTIFICIAL INTELLIGENCE (IPNAU20210009)</p> <p>Title: SYSTEM AND METHOD FOR PROVIDING PARKING ASSISTANCE (202111034740)</p> <p>Title: Splash protection system for camera (350640-001)</p> <p>Splash protection system for camera (202111040475)</p> <p>Title: OBJECT PICKER DESIGN</p>
PhD Guidance	
• Degree Awarded	05
• Thesis Submitted	01
M.Tech. Guidance	
• Degree Awarded	28
• Thesis Submitted	-
Research Project	

<ul style="list-style-type: none"> List of Research project 	
Consultancy	
<ul style="list-style-type: none"> List of Consultancy 	
Awards & Honours	
<ul style="list-style-type: none"> List of Awards & Honours 	SEEAR - Secure and Energy Efficient Adaptive Routing in WSNs". (Best Paper Award)
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	
<ul style="list-style-type: none"> International (Abroad) 	-
<ul style="list-style-type: none"> International (Within Country) 	25
<ul style="list-style-type: none"> National 	-
<ul style="list-style-type: none"> List of published papers 	<ul style="list-style-type: none"> Identification and Revocation of Faulty Nodes from Deployment Area Disaster management system using Wireless Sensor Network: A Review A framework for PO Attainment in HEI's using Machine Learning in India Impact of Computer Applications to Study Mechanical Properties of HSLA Steels Extended Network Lifespan with Fault-Tolerant Information Transmission IoT based smart healthcare monitoring systems: A review A Systematic Review on Techniques of Facemask Detection

	<p>using Digital Images</p> <ul style="list-style-type: none"> • Machine Learning based Model for Prediction of Student's Performance in Higher Education • Impact analysis of Sink Mobility on Fault Tolerance and Delay in Wireless Body Area Networks (WBANs) • Augmenting Border Gateway Protocol with Multi-protocol Label Switching for Enhancing Network Path Restoration • Optimal Route Selection for Error Localization in Real-Time Wireless Sensor Networks (ORSEL) • Chain Assisted Tree based self healing protocol for topology managed WSNs • Policy for random aerial deployment in large scale Wireless Sensor Networks • Reliable State-Full Hybrid Energy Efficient Distributed clustering protocol for wireless sensor networks: RS-HEED • SEEDS: Scalable Energy Efficient Deployment Scheme for Homogeneous Wireless Sensor Network • Dynamic Slot Allocation Scheme for Efficient Bandwidth Utilization in Wireless Body Area Network • PLDP: Possible Location Deployment Protocol for energy harvesting in WSNs • Flexible and Efficient Scheme for Static WSNs • A Reconfigurable Group Aware Network Management Protocol for WSNs • SEEAR - Secure and Energy Efficient Adaptive Routing in WSNs • A New Approach for Internet Services • Flexible and Efficient Key Management Scheme for Static Wireless Sensor Networks • Security in WSN: A Survey
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	<ul style="list-style-type: none"> • A Load Balancing Scheme For Web Caching
Organizing National Conference/ International Conference/ FDP/STTP	
<ul style="list-style-type: none"> • List of Conference/FDP/S TTP committee 	<ul style="list-style-type: none"> • Contemporary and futuristic applications of applied artificial intelligence • Collaboration on Open Source Software with Source Code Management • Hands on Workshop on Internet of Things using Arduino and Raspberry Pi • 5 Ways to Unlock thr Research Grants • Magical shift towards cloud computing • Current Research Trends In Computer Science • Software Project Management • Computer Networking using CCNA • Cyber Crime and Forensic Tools
Social Contributions and Sports	
<ul style="list-style-type: none"> • List of Social Contributions and Sports 	