

Faculty Profile

Faculty Name	Dr. Parveen Kumar Sharma
Designation	Associate Professor
Qualification	PhD
Email	Parveen.cse@piet.co.in
Area of Interest	Computer Network , Machine Learning
Work Experience (Total)	23 Year
<ul style="list-style-type: none"> • Teaching 	23 year
<ul style="list-style-type: none"> • Research 	
<ul style="list-style-type: none"> • Industry 	
<ul style="list-style-type: none"> • Others 	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Computer Network, Data Base Management System, Operating System,
Membership of Professional Bodies	
Research Publications	
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	-----
<ul style="list-style-type: none"> • Research Papers SCOPUS 	8
<ul style="list-style-type: none"> • Research Papers WoS/SCI/ABDC 	3
<ul style="list-style-type: none"> • List of Publications 	<p>Enhanced security using proxy signcryption technique for wireless mesh network “international journal of system assurance engineering and management”, vol 14 page 474-482.(2023) (ESCI).</p> <p>Security Architecture for Authentication and Attack Detection (SAAAD)“Cluster Computing”, Springer, (SCIE). 2017 Impact Factor 2.04</p> <p>ID-based Signcryption Authentication Algorithm for Intra & Inter-domain Handoff in Wireless Mesh Networks,“Iranian journal of science and Technology Transaction of Electrical Engineering”, 2020 (SCIE), Impact</p>

Factor 1.05

Trust Based Secure Routing With Authentication for Wireless Mesh Networks

“International Journal of Control Theory and Application”, vol. 9, pp. 33-38, (SCOPUS).

Attack Mitigation Algorithm for Misbehaving and Cloned AP Attacks in Wireless Mesh Networks,“Journal of Advanced Research in Dynamical and Control Systems”,(SCOPUS)

Trust based multi-level secure routing for authentication and authorization in WMN (TMSR-AA) international journal of advanced intelligence paradigm”20(3-4), 323-342.2021, (SCOPUS)

Trust based Routing for Secure Wireless Networking Solutions,“International Journal of Advance Research in Computer Science and Software Engineering”, Volume 3, Issue - 8, August 2013

Technique to Detect and Isolate Jamming Attack in VANET “International Journal o Applied Engineering Research” ISSN 0973-4562 Volume 12, Number 21 (2017) pp. 10824 10827, (SCOPUS)

Enhance Mobile Sink Technique to Increase Lifetime of WSN “International Journal of Applied Engineering Research” ISSN 0973-4562 Volume 13, Number 5 (2018) pp. 2168-2172,

Improve Performance of LAR Routing for Path Establishment in VANETs “IJRECE” VOL.5 ISSUE 4 OCT.-DEC. 2017 ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281, (SCOPUS)

An Improve Energy Consumption in O-AODV Protocol for MANETs using MATLAB

	<p>Simulator “IJRECE” VOL. 5 ISSUE 4 OCT.-DEC. 2017 ISSN: 2393-9028 (PRINT) ISSN: 2348-2281 (ONLINE). (SCOPUS)</p> <p>A Review: Bone Age Assessment of Live Human and Various kinds of Techniques“IJRECE” VOL. 5 ISSUE 3 JULY.-SEPT. 2017 ISSN: 2393-9028 (PRINT) ISSN: 2348- 2281(ONLINE),(SCOPUS)</p>
Book and Chapter Publications	
<ul style="list-style-type: none"> Books Authored published by International Publishers 	
<ul style="list-style-type: none"> Books Authored published by National Publishers 	
<ul style="list-style-type: none"> Publication of Chapter in Edited Books 	01
<ul style="list-style-type: none"> Editor of Book by International Publishers 	NIL
<ul style="list-style-type: none"> Editor of Book by National Publishers 	NIL
<ul style="list-style-type: none"> Translation Work of Book 	NIL
<ul style="list-style-type: none"> List of Book and Chapter Publications 	Securing Privacy in the Metaverse: Advancing Biomedical Image Analysis Through “Federated Learning, Federated Learning and Privacy-Preserving in Healthcare AI”DOI: 10.4018/979-8-3693-1874-4.ch005.
Patents	
<ul style="list-style-type: none"> Published 	12
<ul style="list-style-type: none"> List of published patent(s) 	
<ul style="list-style-type: none"> Filed 	NIL

<ul style="list-style-type: none"> List of filed patent(s) 	<p> Iot and cloud based design and development of smart bus management system ApplicationNumber:202141030193, publication Date 16/07/2021. </p> <p> Designing a model to Detect Diabetes Using Machine Learning application No:2021103883 Granted on 11 August 2021 </p> <p> Bigdata for secure email spam filtering Application No.202141032077 , Publication Date : 13/08/2021 </p> <p> Building smart cities applications using iot and cloud-based architectures Application No.202141058954,Publication 17.12 2021. </p> <p> Machine learning for email spam filtering Application No.202121035340, Publication Date : 27/08/2021. </p> <p> Multi use agritulture machine for seeding, ploughing, and pesticide spraying. ApplicationNumber:366894-001. </p> <p> Coordination Based Gaming Device, Application no.202211017827, publication date :28-03- 2022 </p> <p> Laptop Maintenance Device, Registration Number 202211019459, publication date: 31-03- 2022 </p> <p> Automated Telescope Installation Device, Registration Number 202211014470 publication date: 17-03-2022 </p> <p> Desk Mounted Employee Managemε Registration Number 202211015183, Publication date: 19-03-2022 </p> <p> Water Polo Training System, Registration Number 202211017827, Publication date: 19-03- 2022. </p>
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	IoT based smart garbage detection, monitoring, and management system to keep cities Clean, PIE 1148
PhD Guidance	
<ul style="list-style-type: none"> • Degree Awarded 	NIL
<ul style="list-style-type: none"> • Thesis Submitted 	NIL
M.Tech. Guidance	
<ul style="list-style-type: none"> • Degree Awarded 	12
<ul style="list-style-type: none"> • Thesis Submitted 	NIL
Research Project	

<ul style="list-style-type: none"> List of Research project 	NIL
Consultancy	
<ul style="list-style-type: none"> List of Consultancy 	NIL
Awards & Honours	
<ul style="list-style-type: none"> List of Awards & Honours 	NIL
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) 	6
<ul style="list-style-type: none"> National 	
<ul style="list-style-type: none"> List of published papers 	<p>Authentication based secure protocol using TTP for WMNs,” Proceeding of 3rd IEEE International Conference on Computing for Sustainable Global Development”, 2016 pp.3286- 3290.</p> <p>Survey of secure routing and authentication techniques for WMN”, IEEE Conference 2017.INDIA COM2017.</p> <p>“Secure Routing for Wireless Mesh Networks using Trust based Authentication Proceedings WILKES 100 – 2ND International Conference on 15-16 Nov 2013 at LPU, Jalandhar, ISBN 978-93-5107 172-3</p> <p>COVID-19, Corona Virus Detection Using Artificial Intelligence “2nd International Conference on Computational Methods in Science & Technology (ICCMST)”2021 IEEE conference. DOI: 10.1109/ICCMST54943.2021.0006</p> <p>Hybrid Energy Aware Bio Inspired Technique to Improve Network Lifetime for MANETs”2023 International Conference on IoT, Communication and Automation Technology (ICICAT)” june 2023. DOI:</p>

	10.1109/ICICAT57735.2023.10263637 An Era of Chat GPT: Systematic Analysis of Utility and Challenges” 2023 2nd Internatioinal conference ICECAA-july 2023
Organizing National Conference/ International Conference/ FDP/STTP	4
• List of Conference/FDP/STTP committee	
Social Contributions and Sports	
• List of Social Contributions and Sports	NIL