Faculty Profile

Faculty Name	Dr. Dinesh Chander Verma
Designation	Professor
Qualification	Ph.D(CSE), M.Tech(IT), MCA, NET
Email	Hod.mca@piet.co.in
Area of Interest	MANET, Machine Learning, Data Mining
Work Experience (Total)	
● Teaching	21 Years
● Research	12 Years
● Industry	
● Others	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	ADBMS, Data Mining & Int. with R, Machine Learning, OPPS with C++
Membership of Professional Bodies	ISITA
Research Publications	11
● Research Papers UGC-CARE	2
● Research Papers SCOPUS	2
● Research Papers WoS/SCI/ABDC	2
● List of Publications	● Ramesh Raghvan, Dinesh Chander Verma **"Optimized Building Extraction from High-Resolution Satellite Imagery using Deep Learning"** published in Multimedia Tools and Applications 2022, DOI: https://doi.org/10.1007/s11042-022-13493-9 (**SCI indexed).** ● Ramesh Raghavan, Dinesh Chander Verma, Tarun Bansal **"Using Double DQN and sensor information for Autonomous Driving",** published in International Journal of Sensors, Wireless Comm: & Control SWCC(2021) 11:1. Bentham Sciences, DOI:

	10.2174/2210327911666210114121049 **(Scopus Indexed)**
	- Dinesh Chander and Rajneesh Kumar **"Multicast error correction method to support scalability in mobile ad hoc networks"** Published in International Journal of Information Technology, doi.org/10.1007/s41870-018-0164-6, ISSN 2511-2112, April 2018 (**Scoupus Indexed**).
	- Hari Singh, Dinesh Chander, Ravinder Bhatt **"Parallel Computing of Matrix Multiplication in Open MP supported CodeBlocks"** published in Advances and Applications in Mathematical Sciences (ISSN 0974-6803), VOLUME 18, ISSUE 8, JUNE 2019, Page 775-787, indexed in Emerging Sources Citation Index **(Web of Sciences).** https://www.mililink.com/issue_content.php?id=59&iId=356&vol=18&is=8&mon=June&yer=2019&pg=567-815
	- Dinesh Chander and Rajneesh Kumar "**IDS Enabled MAODV for Secure Group Communication over MANET"**, International Journal of Computer Science and Information Security (IJCSIS),Vol. 14, No. 10, October 2016, ISSN 1947-5500. (**Indexed by Thomson Reuters)**
	- Dinesh Chander and Rajneesh Kumar " **Energy Efficient Buffer Management for Group Communication in MANETs "**, International Journal of Advanced Research in Computer Science, Volume 8, No. 1, Jan-Feb 2017, ISSN- 0976-5697 (**UGC approved**)
	- Dinesh Chander and Rajneesh Kumar **"Analysis of Scalable and Energy Aware Multicast Routing Protocols for MANETs"** Indian Journal of Computer Science and Engineering (IJCSE), Vol. 8 No. 3 Jun-Jul 2017, pp. 470-478, ISSN : 0976-5166
	- Dinesh Chander and Rajneesh Kumar **"A Survey of Issues in Supporting QoS based Multicast Routing Protocols over**

	MANETs", International Journal of Computer Applications (0975 – 8887) Volume 112 – No 13, February 2015
	● Bharat Chabra, Dinesh Chander "**Software Engineering Issues from the Cloud Application Perspective"** in International Journal of Information Technology and Knowledge Management July-December 2010, Volume 2, No. 2, pp. 669-673 (**UGC Indexed).**
	● Dinesh Chander "**Issues related with Data Security in Cloud Computing"** in Cyber times's Int. Journal of N/W security, Vol 5, March 2012 issue**.**
	● Dinesh Chander, A.K. Mohapatra, Kaleem Usmani "**Light weight encryption technique for group communication in Cloud computing environment"** in Int. Journal of Computer Application Vol. 49 July 2012 Issue.
Book and Chapter Publications	
● Books Authored published by International Publishers	
● Books Authored published by National Publishers	03
● Publication of Chapter in Edited Books	● "**A system for optimized energy consumption in multicast communication and methods thereof over MANETs"**, Application ID 201811023691, 26th June 2018. ● "**AI-Enabled health monitoring system for continuous vital sign monitoring"**, Application ID 202311047744, 11th August 2023. ● "**Remote Air Quality Sensing Apparatus"** Application ID 202311057596, 28th August 2023.
● Editor of Book by International Publishers	● "**Data Science for Effective Healthcare Systems",** by CRC Press, Taylor and Francis Group (2022)

	● **"IoT Based Smart Applications",** (Book series: Innovation in Communication and Computing), EAI, Springer (2023)
● Editor of Book by National Publishers	
● Translation Work of Book	
● List of Book and Chapter Publications	
Patents	
● Published	04
● List of published patent(s)	● **"A system for optimized energy consumption in multicast communication and methods thereof over MANETs",** Application ID 201811023691, 26th June 2018. ● **"AI-Enabled health monitoring system for continuous vital sign monitoring",** Application ID 202311047744, 11th August 2023. ● **"Remote Air Quality Sensing Apparatus"** Application ID 202311057596, 28th August 2023. ● **"Smart Device for Detecting and Preventing Network Intrusions"** UK Design granted having design number 6333906, grated on 4th Jan 2024,
● Filed	
● List of filed patent(s)	
PhD Guidance	
● Degree Awarded	
● Thesis Submitted	
M.Tech. Guidance	
● Degree Awarded	
● Thesis Submitted	
Research Project	
● List of Research project	
Consultancy	
● List of Consultancy	

Awards & Honours	
• List of Awards & Honours	
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	
• International (Abroad)	
• International (Within Country)	6
• National	
• List of published papers	• Amit Chopra, Dinesh Chander Verma **"Dynamic Tracing of DOS Attack Over Software-Defined Networks Using Machine Learning",** 7th IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC), Solan, Himachal Pradesh, India, 2022, IEEE Xplore pp. 635-640, doi: 10.1109/PDGC56933.2022.10053364, 1st March 2023. **(Scopus Indexed).**
	• Shakti Arora, Dinesh Chander Verma, Vijay Athavale **"A secured automated Attendance Management System implemented with Secret Sharing Algorithm:A solution in pandemic outreach of Covid-19",** 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), Waknaghat, Solan, India, 2020, IEEE Xplore pp. 141-145, doi: 10.1109/PDGC50313.2020.9315854 **(Scopus Indexed)**.
	• Dinesh Chander and Rajneesh Kumar **"QoS Enabled Cross Layer Multicast Routing over Mobile Ad Hoc Networks"** presented in ICSCC 2017 and published in Elsevier Procedia Computer Science, 2018, ISBN 9781510855953 **(Scopus Indexed).**
	• Dinesh Chander and Rajneesh Kumar **"Performance Analysis of Multicast Routing Protocols Over MANET Under CBR and VBR Traffic Patterns"** In: Futuristic Trends in Network and

	Communication Technologies. FTNCT 2018. Communications in Computer and Information Science, vol 958. Springer, Singapore; Print ISBN: 978-981-13-3803-8 ; Online ISBN: 978-981-13-3804-5 **(Scopus Indexed).** ● Dinesh Chander and Rajneesh Kumar **"A Survey of Issues Related to Multicast Routing Protocols over Mobile Ad hoc Networks"**, Published in the proceeding Volume 1, Page no. 169-175 ISBN: 978-93-83842-55-1) of an International conference "Emerging Technologies" under **TEQIP-II** held at N.C. College of Engineering from 24th to 26th April 2014. ● Dinesh Chander, Vikas Raheja **"Data Encryption and its Impact on Performance of Cloud Applications"** published in Proceedings of the 5th National Conference; INDIACom-2011 at BharatiVidyapeeth's Institute of Computer Applications and Management, New Delhi in March 2012.
Organizing National Conference/ **International Conference/ FDP/STTP**	10
● List of Conference/FDP/STTP committee	● Conference Chair of International conference **"ICFCT-2022"** held on 16-17th December 2022 at PIET Panipat. ● Technical Program Chair in International Conference on **"Data Analytics Management: An Indo-Europen Conference(ICDAM-2021)"** to held on 26th June 2021 jointly organized by PIET Panipat and Jan Wyzykowski University, Polkowice, Polland. ● Delivered a session on the title **"Insights of Data Science and**

	Machine Learning" in a one-week FDP organized by **AMITY INSTITUTE OF INFORMATION TECHNOLOGY, AMITY UNIVERSITY** on 30th March 2022.
	● Taken a session in FDP on "ICT in Education and Cyber-Security (July 10-16, 2019)" at **HANSRAJ COLLEGE, UNIVERSITY OF DELHI (15th July 2019)** under the aegis of PMMMNMTT, MHRD.
	● Taken a session in FDP on "Entailing Vitality of ICT in Capacity Building of Faculties (Aug 17-Aug 22, 2019)" at **Dr. Shyama Prasad Mukherjee University, Ranchi (20th August 2019)** under the aegis of PMMMNMTT, MHRD.
	● Taken a session in FDP on "Transformation in Higher Education: Issues and Road Ahead" (28th September- 12th October, 2020)" jointly organized by HANSRAJ COLLEGE, UNIVERSITY OF DELHI and GOVERNMENT DEGREE COLLEGE FOR WOMEN, ANANTNAG (J&K), taken session on **"Redesigning Higher Education for Building Research Capability and Employability Skills"** on 6th October,

	2020 under the aegis of PMMMNMTT, MHRD.
	• Organizing Committee Member in AICTE sponsored one-week STTP on **"Design of Soft Computing Based Machine Learning Models"** held from 26-04-2021 to 01-05-2021, 17-05-2021 to 22-05-201, 07-06-2021 to 12-06-2021 and 12-07-2021 to 17-07-2021.
	• Convenor of one day International Conference on **"Intelligent Sysytems: Approches, Technologies and Networks (ISTAN-2019)"** held on 29th March, 2019 at PIET, Panipat.
	• **Convenor** of National seminar *"Emerging trends in software Engineering"* held on Sept 5- 6th 2008 at NCCE Israna (Panipat).
	• **Co-convener** of National seminar **"***challenges in software Engg: Research and practices***"** held on 30-31st March, 2010 at NCCE Israna (Panipat).
Social Contributions and Sports	
• **List of Social Contributions and Sports**	• Taken a session on **"Emerging Technologies to focus for better placements"** and **" Success Mantra"**

	organized by placement cell Govt. College, Safidon on 29th Jan 2022.