


Name	Dr. Ram Krishan				
Email	ramkrishan@pbi.ac.in				
Contact Number	+91-98152-31354				
Designation	Assistant Professor (Selection Grade/Academic Level 12)				
Subject	Computer Science				
Qualification	B.Tech (CSE), M.Tech (CE), PHD (CSE)				
Experience – 17 Years					
Research guidance					
Ph.D. Guided			Under Guidance		
NIL			02		
Area of Research/Interest	Wireless Communication, Antenna Design				
Projects /Patents/Research grant	NIL				
Number of Publications					
Books/Articles	International journals	National journals	International Conferences	National conferences	
Books - 08 Book Chapters - 14	17		07	07	
Latest Publications (books, Articles, Expert Talk etc.)					
EDITED BOOKS					
1) Digital Transformation – Modernization and Optimization of Wireless Networks, Published by Nova Science Publishers, USA, October 2023. ISBN: 979-8-89113-042-5, DOI: https://doi.org/10.52305/TTVQ3854 (SCOPUS Indexed)					
2) Computational Analysis of Mathematical Systems and Wireless Networks, Published by Central West Publishing (CWP), Australia, June 2023. ISBN: 9781922617484					
3) Advanced Innovations in Communication and Computation, Published by Central West Publishing (CWP), Australia, June 2023. ISBN: 9781922617446					
4) Innovative Smart Materials Used in Wireless Communication Technology, Published by IGI Global, USA. March 2023, ISBN: 9781668470008, DOI: 10.4018/978-1-6684-7000-8 (SCOPUS Indexed)					
5) Emerging Trends in Wireless Communication, Published by Central West Publishing (CWP), Australia. December 2021. ISBN (print): 978-1-922617-22-4					
6) Wireless Communication and Computing, Published by Twentyfirst Century Publication, Patiala. November 2020. ISBN 978-93-90154-76-0					
7) Wireless Communication and Mathematics, Published by Twentyfirst Century Publication, Patiala. December 2019. ISBN 979-93-89673-30-2					
8) Advances in Wireless Communication and Mathematics, Published by Twentyfirst Century Publication, Patiala, December 2018. ISBN 978-93-85446-98-6					
INTERNATIONAL JOURNALS					
1) Shuffled Frog Leaping Algorithm based Circular Patterns loaded Ring Shaped Fractal Antenna for Multistandard Wireless Applications, AEU - International Journal of Electronics and Communications, 176(2024):1-14. https://doi.org/10.1016/j.aeue.2024.155123 (SCIE Indexed)					
2) Design and Analysis of Energy-efficient Algorithm for Wireless Networks, Journal of Scientific Research 15(3):731-738, September 2023 (UGC Care List Group I Journal)					
3) LiNbCoX (X = Al, Ga) quaternary Heusler compounds for high-temperature thermoelectric properties: a computational approach, Bulletin of Materials Science, 46(2), DOI: 10.1007/s12034-023-02945-z. (SCIE Indexed Journal)					

4)	SECURE IOT-BASED PHYSICAL TRAINING NETWORK – A, Towards Excellence, Vol. 14, Issue 3, September 2022. ISSN: 0974-035X. (UGC Care List Group I Journal)
5)	Performance Characterization of Load Balancing Algorithm, Journal of Scientific Research, Vol. 13, Issue 3, September 2021. ISSN: 2070-0245. (UGC Care List Group I Journal)
6)	Optimization of Resource Aware Task-Scheduling Approaches in Cloud Computing, Journal of Green Engineering, Volume-10, Issue-3, March 2020. (SCOPUS Indexed)
7)	Security Threat of MANET: A Comprehensive Architecture, International Journal of Innovative Technology and Exploring Engineering, Volume-9 Issue-5, March 2020. ISSN: 2278-3075
8)	Performance Characterization of Dual-band Microstrip Fractal Antenna, International Journal of Information Technology and Electrical Engineering, Volume 8, Issue 5, October 2019. (UGC-CARE List Group I Journal)
9)	Wi-Fi 6 Technology- A Review, International Journal of Modern Electronics and Communication Engineering (IJMECE), Volume No. - 7, Issue No. - 4, July, 2019.
10)	WLAN Roaming Performance Analysis using Riverbed Modeler, International Journal of Modern Electronics and Communication Engineering (IJMECE), Volume No. - 6, Issue No. - 3, May, 2018.
11)	Algorithm for Optimized Load Balancing of WLAN, International Journal of Computer Science and Information Security, Vol. 14, Issue 11, pp. 872-878, November 2016. (ESCI-Web of Science).
12)	Handoff Implementation in IEEE 802.11 Wireless Local Area Network Using Riverbed Modeler, International Journal of Engineering Sciences & Research Technology, Vol. 3, Issue 2, February 2015.
13)	Design and Analysis of Channel Assignment Algorithm for IEEE 802.11 WLAN Network Performance Enhancements, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Issue 1, January 2015.
14)	Design of Microstrip Antenna for Wireless Local Area Network, International Journal of Computer Science and Mobile Computing, Vol. 4, Issue 4, 2015.
15)	IEEE 802.11 WLAN Load Balancing for Network Performance Enhancement, ELSEVIER Procedia Computer Science Journal, Vol. 57, 2015. (SCOPUS Indexed)
16)	Simulation and Analysis of Wireless Local Area Network using OPNET, Engineering Sciences International Research Journal (IMRF Journals), Vol. 2, Issue 1, 2014.
17)	A Novel approach for managing channels in wireless network, International Journal of Computer Applications, Vol. 1, No. 15, 2010.
BOOK CHAPTERS	
1)	Performance Analysis of Terahertz Microstrip Antenna Designs: A Review, In book: Robotic Process Automation, Publisher: John Wiley Sons@Scriver Publishing, September 2023, pp. 101–112. DOI: 10.1002/9781394166954.ch6 (SCOPUS Indexed)
2)	Customer Behaviour Analysis Using Machine Learning Algorithms, In Book: Digital Transformation, Strategic Resilience, Cyber Security and Risk Management, Publisher: Emerald Publishing, September 2023. DOI: 10.1108/S1569-37592023000111B009
3)	Technology in Education vs Teacher-Taught Relationship in the 21st Century, In Book: Edutech Enabled Teaching Challenges and Opportunities, Published by CRC Press 2023, DOI: 10.1201/9781003254942-14
4)	Performance Analysis of Algorithms Used for Workflow Scheduling in Cloud Environment, In Book: Big Data: A Road Map for Successful Digital Marketing, Published by De Gruyter, 2022, DOI: 10.1515/9783110733716-011 (SCOPUS Indexed)
5)	Role of Quantum Computing in Transformation of Artificial Intelligence - A Review, In Book: <i>Futuristic Projects in Energy and Automation Sectors</i> , A Brief Review of New Technologies Driving Sustainable Development, Published by Bentham Science, 2022. DOI: 10.2174/9789815080537123010018

6)	Terahertz Band for Wireless Communication - A Review, In book: Terahertz Wireless Communication Components and System Technologies, Published by Springer Nature, April 2022, DOI: 10.1007/978-981-16-9182-9_10 (SCOPUS Indexed)
7)	A Novel Cross-Slotted Dual-Band Fractal Microstrip Antenna Design for Internet of Things (IoT) Applications, In book: Advanced Sensing in Image Processing and IoT, February 2022, DOI: https://doi.org/10.1201/9781003221333
8)	A Review of Identification Technologies, In book: Advances in Robotics and Optimization Approach in Engineering Published by Central West Publishing (CWP), Australia, October, 2021. ISBN 978-1-922617-18-7
9)	Feature Extraction of Human Electrocardiogram Signal using Machine Learning, In book: Technological Advancements in Management, Agriculture, Education & Social Sciences, September 2021. ISBN 978-93-90818-60-0
10)	Role of Artificial Intelligence in Wireless Network Communication, In book: Wireless Communication and Computing, November, 2020. ISBN 978-93-90154-76-0
11)	Review of Workflow Scheduling and Reliability of Task Scheduling Approaches in Cloud Environment, In book: Wireless Communication and Computing, November, 2020. ISBN 978-93-90154-76-0
12)	Review of Work Flow Task Scheduling Based on Various Optimization Approaches in Cloud Computing, In Book: Wireless Communication and Mathematics, December 2019, ISBN 979-93-89673-30-2.
13)	Role of Big Data Analytics in Wireless Network Applications, In Book "Advances in Wireless Communication and Mathematics", December 2018, ISBN 978-93-85446-98-6.
14)	'X' Shape Slot based Microstrip Fractal Antenna for IEEE 802.11 WLAN in Springer's Book "Advances in Computer and Computational Sciences, Advances in Intelligent Systems and Computing", Vol. 553, pp. 135-143, 2017. (SCOPUS Indexed)
PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES	
1)	"A Novel Design of Microstrip Fractal Antenna for IEEE 802.11 WLAN" in International Conference – AETM 2015 held at Bangkok, Thailand on 23 July, 2015.
2)	"Channel Management Algorithm for Modeling Network Throughput in IEEE 802.11 WLAN" in 5th International Conference on Advanced Computing & Communication Technologies (ACCT – 2015) held at Rohtak on February 21-22, 2015. (IEEE Xplore)
3)	"Review of Load Balancing in Wireless Local Area Network (WLAN's)", International Conference on Computer Networks and Information Technology (ICCNIT-2014), NITTTR, Chandigarh on 20-21, March 2014.
4)	"Analysis of data security models for cloud computing", International Conference on Advanced Computing & Communication Technologies (ICACCT-2012) at APIT, Panipat on 03 Nov., 2012.
5)	"Insecurity & Attacks of WEP Protocol in Mobile Communication", Biannual International Conference on "Contemporary Issues in Management and Technology held at Prof. Ramkrishna More Arts, commerce and Science College, Pune on 8-9 August, 2011.
6)	"Evaluation for Effectiveness of Encryption Techniques in Wireless Generations", International Conference on Wireless Networks & Embedded Systems, (WECON) at Chitkara Institute of Engineering and Technology, Rajpura on 23-24 October, 2009.
7)	"User Management in IEEE 802.11 WLAN", International Conference on Wireless Networks & Embedded Systems, (WECON) at Chitkara Institute of Engineering and Technology, Rajpura on 23-24 October, 2009.
PAPERS PUBLISHED IN NATIONAL CONFERENCES	
1)	"Riverbed Modeler For WLAN Optimization" in National Conference of "Recent Advancements in Science, Commerce & Technology" (NCRSCT'16), 5-6 April, 2016 at Mata Sahib Kaur Girls College, Talwandi Sabo.

2)	“Wireless Sensors for Border Security”, National Seminar on “Emerging Trends in Computer Science and Information Technology” held at IET, Bhaddal on November 1-2, 2011.
3)	“IRIS Scanning for Biometric Authentication”, National Conference on Smart Electronic and Engineering Materials 2010 (SEEMs’10) at Baba Farid College of Engineering, Deon, Bathinda on 5-6 March, 2010.
4)	“Mobile Generation Security Aspects”, National Conference on Emerging Trends in Engineering & Information Technology (ETEIT) at GTBKIET, Chappianwali (Malout) on 6-7, November 2009.
5)	“Selection of Effective Testing Technique for Software Test Process”, National Conference on Emerging Trends in Engineering & Information Technology (ETEIT) at GTBKIET, Chappianwali (Malout) on 6-7, November 2009.
6)	“Channel Management in an IEEE 802.11 Wireless Local Area Network” National Conference NCRDCA’09 held at Jamia Hamdard University New Delhi on August 12-13, 2009.
7)	“Least Significant bit based Visibility reduction technique”, National Conference on Emerging Technologies held at MIT, Moradabad on 24-25 January, 2009.
EXPERT TALKS	
1)	Delivered a key note lecture on “Advance Wireless Communication Technologies” during one day national seminar on Advances in Wireless Communication Systems and Antennas organized by Institution of Engineers, Bathinda Local Centre, Bathinda on 20th May, 2023.
2)	Delivered a lecture on “E-Banking” during Seminar on “Computer Technologies” at Mai Bhago Degree College for Girls, Ralla (Mansa) on 6th March, 2017.
3)	Delivered a lecture on “Power Point Presentation” at N. M. Govt. College, Mansa on 12th October, 2016.

Dr. Ram Krishan