


### Faculty Profile

Name	Dinesh Sharma			
Designation	Assistant Professor			
Pay Scale	7 <sup>th</sup> Pay Scale			
Department	ECE			
Qualification	Ph.D., M.Tech., AMIETE			
Date of joining	Institute	Present Post		
20 <sup>th</sup> April 2018	CCET (DW)	A.P.		
Experience ( <i>in years</i> )	Total	Teaching	Industry	
	15	15	-----	
Research Interests	Wireless Commination and Antenna Design			
Contact Details:	Email	Mobile/Phone		
	dsharma@ccet.ac.in	9671721850		
Research Publications	International Journals	National Journals	International Conferences	National Conferences
	35	---	37	14
Books/Chapters Published	02 (Chapter)+04 (Book)			
Research Guidance	Ph. D.	03	Masters	02
Research Projects	Completed	02	Inprogress	01
Consultancy Projects	Completed	00	Inprogress	00
Seminar/Conference/STTPs	Attended	10	Organized	02
Professional Affiliations	<ul style="list-style-type: none"> <li>• Member of IEEE, Membership no. 94396634</li> <li>• Life Member (AM-153961) of IETE, New Delhi.</li> <li>• Life Member of ISTE, New Delhi (LM-132810)</li> </ul>			

	<ul style="list-style-type: none"> <li>• Member of Universal Association of Computer and Electronics Engineers.</li> <li>• Member of IAENG, Membership no. 106790.</li> <li>• Member of World Association for Scientific Research and Technical Innovation (WASRTI).</li> <li>• Senior member of International Society of Research and Development (ISRDI), Membership no. - SR4150900641.</li> <li>• Member of The Society of Digital Information and Wireless Communications (SDIWC), Membership No.-4883.</li> </ul>
Awards/ Fellowships etc.	02- Best Paper awards
List of Publications	<p><i>International Conference</i></p> <ol style="list-style-type: none"> <li>1. Dinesh Sharma, Purnima K Sharma, Rajiv Kapoor, “Performance analysis of multiple target tracking algorithms: UPF and UPF-PDA” was published in an international conference held at LIET, Alwar (Raj.), page no. 223-231 in April 2009.</li> <li>2. Dinesh Sharma, Purnima K Sharma, R.K. Singh, “Modified approach to estimate the propagation path loss in urban area” was published in an international conference held at Tula’s Institute, Dehradun (UK), page no. 275-279 on 7-9 July 2012. ISBN: 978-981-07-2950-9 doi:10.3850/ 978-981-07-2950-9 679.</li> <li>3. Dinesh Sharma, Purnima K Sharma, Sumit Kumar and Sudhir Yadav, “Calculation of Peak Signal to Noise Ratio in Visual Secret Sharing Scheme” was published in an international conference (ICACCT) held at APIIT, Panipat (HR), India page no. 210-214 on 3<sup>rd</sup> Nov. 2012.</li> <li>4. Dinesh Sharma, Purnima K Sharma, Naina Goel and Jasleen Kaur, “Face Identification Using Wavelet Transform &amp; PCA” was published in an international conference on Advances in computer science &amp; electronics engineering (CSEE 2013) held</li> </ol>

at New Delhi, India page no.109-113 on 24thFeb. 2013.

5. Purnima K Sharma, Paresh Chandra Sau, Dinesh Sharma, “Digital Image Watermarking: An Approach by Different Transforms using Level Indicator” was published in an IEEE International Conference on Communication, Control and Intelligent Systems (CCIS 2015) held at GLA University, Mathura, India page no.277-281 on 07-08 Nov.2015. IEEE Catalogue Number: CFP15C93-CDR | ISBN: 978-1-4673-7541-2, DOI-[10.1109/CCIntelS.2015.7437919](https://doi.org/10.1109/CCIntelS.2015.7437919). (Scopus Indexed)
6. U. Saarika, Purnima K Sharma and Dinesh Sharma, “A Roadmap to the Realization of Wireless Body Area Networks: A Review” was published in an IEEE International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT) at DMI College of Engineering, Chennai (TN), Page no. 439-443 on 3<sup>rd</sup>-5<sup>th</sup> March, 2016.IEEE CATALOG(ISBN) : XPLORE COMPLIANT - CFP16E71-ART - 978-1-4673-9939-5, DOI: [10.1109/ICEEOT.2016.7755538](https://doi.org/10.1109/ICEEOT.2016.7755538). (Scopus Indexed)
7. Purnima K Sharma, Dinesh Sharma, Paresh Chandra Sau and Akanksha Gupta “Comparative Analysis of Propagation Models in LTE Networks with Spline Interpolation” was published in an IEEE International Conference on Communication, Control and Intelligent Systems (CCIS 2016) held at GLA University, Mathura, India page no.3-7 on 18-20<sup>th</sup> Nov.2016. DOI: [10.1109/CCIntelS.2016.7878189](https://doi.org/10.1109/CCIntelS.2016.7878189). (Scopus Indexed)
8. Purnima K Sharma, Dinesh Sharma and Akanksha Gupta, “Cell Coverage Area and Link Budget Calculations in LTE System” was published in 2nd International Conference on Aerospace Electronics, Electrical, Communications & Instrumentation (ASECI 2016) held at VRSEC, Vijayawada (A.P.) on 22-23<sup>rd</sup> Oct.2016.(Scopus Indexed)

9. Dinesh Sharma, Purnima K Sharma & Praveen V Naidu, “ A Speculative Approach to design a Hybrid System for Green Energy” was published International Conference on Advanced Material Technologies (ICAMT- 2016) held at DIET, Anakapalle (A.P.) pp. 191-197 on 27<sup>th</sup> -28<sup>th</sup> Dec. 2016. (IOP Conference Series: Materials Science and Engineering-Scopus Indexed).
10. Naveena Koppati, Pavani K, Dinesh Sharma & Purnima K Sharma , “ MIMO to LS-MIMO : A Road to Realization of 5G” was published International Conference on Functional materials, characterization, solid state physics, power, thermal and combustion energy (FCSPTC-2017) held at RCE, Eluru (A.P.) pp. 201-207 on 7<sup>th</sup> -8<sup>th</sup> Apr. 2017. (AIP Conference Proceedings- Scopus Indexed).
11. I. Sri Devi Mounika, Dinesh Sharma and Purnima K Sharma, “Analysis of Different Detection Techniques of MIMO In Future Generation of Wireless Communication” was published in Joint International conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) and Power, Circuit and Information Technologies (ICPCIT-2017) held at MITS, Madanapalle (A.P.), India on 27<sup>th</sup> -29<sup>th</sup> April 2017. (International Journal of Pure and Applied Mathematics, Vol. 114, Issue 12, pp.419-427, 2017- Scopus Indexed).
12. B. Sujana Sri, Dinesh Sharma and Purnima K Sharma, “Body surface to body surface path loss calculation at 900mhz and 2.4ghz in WBAN” was published in Joint International conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) and Power, Circuit and Information Technologies (ICPCIT-2017) held at MITS, Madanapalle (A.P.), India on 27<sup>th</sup> -29<sup>th</sup> April 2017. (Springer- Advances in Intelligent Systems and Computing- Scopus Indexed).

13. Sravani Thota, Dinesh Sharma and Purnima K Sharma, “Estimation and correction of carrier frequency offset using FFT and 16-QAM in MIMO-OFDM” was published in Joint International conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) and Power, Circuit and Information Technologies (ICPCIT-2017) held at MITS, Madanapalle (A.P.), India on 27<sup>th</sup> -29<sup>th</sup> April 2017. (International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 1 (2017)).
14. Purnima K Sharma, Dinesh Sharma and Akanksha Gupta, “Pre-Coding using Different Detection Algorithms in MIMO System” was published in International Conference on Currents Trends in Computer, Electrical, Electronics & Communication (IEEE- ICCTCEEC-2017) held at Vidyavardhaka College of Engineering (VVCE), Mysuru, 8<sup>th</sup> and 9<sup>th</sup> Sept. 2017.(Scopus Indexed)
15. Dinesh Sharma, PurnimaK Sharma, “Path Loss calculation in WBAN at CM3 Channel by using Printed Dipole Antenna” was published in International Conference on Latest Trends in Electronics and Communication held at Malla Reddy College of Engineering, Hyderabad, 29<sup>th</sup> and 30<sup>th</sup> Nov.2017, pp.28-31, ISBN 978-93-85100-14-7.
16. Mounika C, Thamarai M, Dinesh Sharma, “Analysis of Multispectral Image Compression” was published in International Conference on Latest Trends in Electronics and Communication held at Malla Reddy College of Engineering, Hyderabad, 29<sup>th</sup> and 30<sup>th</sup> Nov.2017, pp.126-129, ISBN 978-93-85100-14-7.
17. Ch. Jyotsna Rani, K. Bhagya Lakshmi , Dinesh Sharma, Purnima K Sharma, “A Review on Health Monitoring System by Wireless Sensor Network” was published in International Conference on Latest Trends in Electronics and

Communication held at Malla Reddy College of Engineering, Hyderabad, 29<sup>th</sup> and 30<sup>th</sup> Nov.2017, pp.140-144, ISBN 978-93-85100-14-7.

18. Purnima K Sharma, Dinesh Sharma and Thota Vijay Sai, “ Optimazation of propagation Path Loss Model in 4G Wireless Communication Systems” was published in International Conference on Inventive Systems and Control (IEEE-ICISC 2018)held at JCT College of Engineering and Technology, Coimbatore (TN), India, 19<sup>th</sup> -20<sup>th</sup> Jan. 2018, Pp. 1252-1256. ISBN-978-1-5386-0807-4.(Scopus Indexed)
19. Dinesh Sharma, Harshavardhan K, Devi sree V, Bhagya Surekha P and Sai Bhavana Y, “Living Plant or Tree as a Long Lasting Battery” was published in International Conference on Recent Trends in Engineering & Sciences (ICRTES-2018) held at Visakhapatnam (A.P.), India, 20<sup>th</sup> – 21<sup>st</sup> Feb. 2018. (International Journal of Engineering & Technology (UAE)- Scopus Indexed)
20. Praveen V Naidu, Dinesh Sharma, Arvind Kumar, R. rohini, Purnima K Sharma, “Semi Circular Printed Monopole Antenna with Ū Shaped Slot for UWB Applications” Was Published in Progress in Electromagnetics Research Symposium (PIERS-2018) held in Toyama Japan, 1-4 August 2018. (IEEE Publications)
21. Praveen V Naidu, M shiva Charan, Dinesh Sharma, Arvind Kumar, Purnima K Sharma, K Sai Harish “Design of 5 way Wide Band Wilkinson Power Divider of 6 to 18 GHz Applications” Was Published in Progress in Electromagnetics Research Symposium (PIERS-2018) held in Toyama Japan, 1-4 August 2018. (IEEE Publications)
22. Dinesh Sharma, Purnima K Sharma and Jyotsna Rani, “ A Flag Shaped Microstrip Patch Antenna for Multiband Operation” was published in International Conference on Innovative

Computing and Communication (ICICC-2019) held at VSB Technical University of Ostrava, Czech Republic, Europe, 21-22 March 2019. (Springer reputed AISCseries (Scopus Indexed)

23. Purnima K Sharma, Dinesh Sharma, T. Vijay Sai “Path Loss Calculation at 900MHz and 2.4GHz in WBAN” ICSC-2019 held on 19-21 April 2019 at Institute of Hydropower engineering and Technology (THDC-IHET, Tehri, Uttarakhand, India) . (Algorithms for Intelligent Systems (AIS), Springer Nature)-  
[https://link.springer.com/chapter/10.1007/978-981-15-0633-8\\_56](https://link.springer.com/chapter/10.1007/978-981-15-0633-8_56)
24. Dinesh Sharma, E. Kusuma Kumari “Wideband MIMO Antenna With Diverse Polarization and Radiation Pattern For 5G Applications” ICSC-2019 held on 19-21 April 2019 at Institute of Hydropower engineering and Technology (THDC-IHET, Tehri, Uttarakhand, India) . (Algorithms for Intelligent Systems (AIS), Springer Nature)-  
[https://link.springer.com/chapter/10.1007/978-981-15-0633-8\\_68](https://link.springer.com/chapter/10.1007/978-981-15-0633-8_68).
25. Dinesh Sharma, Purnima K Sharma, J Rajendra and Ramnarayana Vemana “A Bird View on Radio Frequency Based Energy Harvesting System” 8th International Conference on Advancements in Engineering and Technology, (ICAET-2020) at BGIET, Sangrur (Punjab), pp. 1-3 March 20 – 21, 2020 [ISBN: 978-81-924893-5-3].
26. Sarabpreet Singh Sohal, Sahil Gupta, Vaibhav Arora, D.S.Saini, Dinesh Sharma, “A Compact Wideband Microstrip Antenna for Radar and Satellite Communication” 8th International Conference on Advancements in Engineering and Technology, (ICAET-2020) at BGIET, Sangrur (Punjab), pp. 23-27, March 20 – 21, 2020 [ISBN: 978-81-924893-5-3].

27. Ashwin Rajput, Damanpreet Kaur and Dinesh Sharma, "A Dual Band Slotted Wheel Antenna for Wireless Applications" 8th International Conference on Advancements in Engineering and Technology, (ICAET-2020) at BGIET, Sangrur (Punjab), pp. 29-33, March 20 – 21, 2020 [ISBN: 978-81-924893-5-3].
28. Atul Kumar, Aashish Manchanda, Abhishek Yadav and Dinesh Sharma, "Quad Band Fractal Microstrip Antenna for Application in S, C and X Bands" 8th International Conference on Advancements in Engineering and Technology, (ICAET-2020) at BGIET, Sangrur (Punjab), pp. 53-57, March 20 – 21, 2020 [ISBN: 978-81-924893-5-3].
29. Ashima Sharma, Shrishti Singh, Paurush Dhawan, Dinesh Sharma, "Design and Simulation of Slot Antenna for Energy Harvesting" 9th International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2021) at Guru Nanak Institutions Technical Campus Ibrahimpatnam, Hyderabad, Telangana State , pp. 11, Aug.13-14, 2021.
30. Himanshu Garg, Chahat Goyal, Nikhil Arora, Dinesh Sharma , "Microstrip Patch Antenna for Wireless Body Area Network Applications " 9th International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2021) at Guru Nanak Institutions Technical Campus Ibrahimpatnam, Hyderabad, Telangana State , pp. 13, Aug.13-14, 2021.
31. J. Rajendra and Sharma Dinesh, "A Review on Wireless Power Transfer New Paradigm for Low Power Devices" 5<sup>th</sup> International Conference on Innovative Computing and Communication (ICICC-2022), New Delhi on 19<sup>th</sup> and 20<sup>th</sup> Feb. 2022 (January 27, 2022). Available at SSRN: <https://ssrn.com/abstract=4019671> or <http://dx.doi.org/10.2139/ssrn.4019671>.  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4019671](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4019671)



32. M. Vinodkumar and Dinesh Sharma, “A Review on Metasurface and Metamaterials for Antenna Design” -----  
..... New Frontiers in Communication and Intelligent Systems, 185–205. Computing & Intelligent Systems, SCRS, India. <https://doi.org/10.52458/978-81-95502-00-4-22>.
33. Neelam Yadav, Dinesh Sharma, Shashi Jawla and Gaurav pratap Singh, “Fire Neutralizing with Night Vision Camera under IoT framework” International Conference on Cyber Security, Privacy and Networking (ICSPN-2022) at Thailand on 09-11-2022.
34. Dinesh Sharma, Sahil Arora, Shobhana Manjhu and Vaibhav Kushwaha, “Analysis and Development of Ultra wide band Flexible Wearable Textile Antenna for Wireless Body Area Network” 3<sup>rd</sup> International Conference on Communication, Computing and Industry 4.0 (C214-2022)- IEEE organized by CMR Institute of Technology, Bengaluru, India on 15<sup>th</sup>-16<sup>th</sup> Dec. 2022. – Best Paper Award
35. M. Vinod kumar and Dinesh Sharma, “Metasurface Based MIMO Antenna for RF energy Harvesting Applications” International Conference on Technological Advancements Stepping Towards Sustainable Development at SVIET, Banur (Panjab) on 8<sup>th</sup>-9<sup>th</sup> Feb. 2023.
36. J. Rajendra and Dinesh Sharma, “A High Gain Circularly Polarized WPT Rectenna for Implantable Biomedical Applications” International Conference on Technological Advancements Stepping Towards Sustainable Development at SVIET, Banur (Panjab) on 8<sup>th</sup>-9<sup>th</sup> Feb. 2023.
37. Dinesh Sharma, Kamaldeep Kaur, Palkin Gautam, Rhythm, “A Coplanar Triband MIMO Antenna for Vehicular Communication” at SERB sponsored International conference on recent advancement in Communication, Computing, and

Artificial Intelligence (RACCAI 2023), CEC, Jhanjeri (Mohali) during 12-13<sup>th</sup> Oct. 2023. Best Paper award

*National Conference*

1. Dinesh Sharma, Purnima K Sharma, Rajiv Kapoor, "Multiple Object Tracking Having Identity Management" was published in a National conference held at GITS, Udaipur in May 2009.
2. Dinesh Sharma, Purnima K Sharma, R.K. Singh, "A Survey on Propagation Models used in Wireless Communication System Design" was published in a national conference (RESEARCH2KX) at HEC, Jagadhri, page no. 91-99 in Feb. 2010.
3. Vikash Tanwer, Vikrant Yadav, Narender Kumar, Dinesh Sharma, "A Survey on Different Image Compression Techniques" was published in a national conference (RACE-10) held at LIET, Alwar (Raj.), page no. 86-89 in November 2010.
4. Ghanshyam Shulka, Himanshi Sharma, Dinesh Sharma, "Different Transformation Techniques Used in Data Compression-A Review" was published in a national conference (RACE-10) held at LIET, Alwar (Raj.), page no. 70-73 in November 2010.
5. Dinesh Sharma, Purnima K Sharma, Sumit Kumar, Sudhir Yadav, "Analysis of Large Scale Propagation Models in Different Areas" was published in national conference (ACCEE-2012) held at MITRC, Alwar (Raj.) page no. 217-223 in April 2012.
6. Nisha Gangra, Sunita Yadav, Chitra Saini, Purnima K Sharma, Dinesh Sharma, "An Overview of Image Security-Cryptography" was published in national conference (ACCEE-2012) held at MITRC, Alwar (Raj.) page no. 379-385 in April 2012.

7. InduGarg, Neha Sharma, Dinesh Sharma, Purnima K Sharma, “An Overview of Image Compression Using Different Transform Techniques” was published in national conference (ACCEE-2012) held at MITRC, Alwar (Raj.) page no. 152-158 in April 2012.
8. S. Siva Reddy, K. Vinod and Dinesh Sharma, “Health Monitoring Systems by Wireless Sensor Network” was published in National Conference on Wireless Communication Systems held at MITS, Madanapalle (A.P.) page no.260-264 in Jan. 27<sup>th</sup> – 28<sup>th</sup>, 2016. ISBN-978-93-85100-27-7.
9. G. Sravanthi, T. SanthiSwaroopreddy and Dinesh Sharma, “Survey on different Flight Data Recording System for Unmanned Aerial Vehicle” was published in National Conference on Wireless Communication Systems held at MITS, Madanapalle (A.P.) page no.269-273 in Jan. 27<sup>th</sup> – 28<sup>th</sup>, 2016. ISBN-978-93-85100-27-7.
10. G. Jhansi Lakshmi, M. Thamarai and Dinesh Sharma, “Analysis of Multispectral Image Compression” was published in National Conference on Wireless Communication Systems held at MITS, Madanapalle (A.P.) page no.274-277 in Jan. 27<sup>th</sup> – 28<sup>th</sup>, 2016. ISBN-978-93-85100-27-7.
11. U. Saarika, Purnima K Sharma and Dinesh Sharma, “Channel Model Scenarios in Wireless Body Area Networks” was published in National Conference on Wireless Communication Systems held at MITS, Madanapalle (A.P.) page no.288-294 in Jan. 27<sup>th</sup> – 28<sup>th</sup>, 2016. ISBN-978-93-85100-27-7.
12. G. Sree Durga, V. N. Ramyaka, Dinesh Sharma, Purnima K Sharma, “The Journey of Mobile Communication from 0G to 5G” was published in National Conference on Emerging Trends in Electronics and Communications Engineering (NCETEC) held at Bapatla Engineering College, Bapatla (A.P.), page no. 39-42 in 20<sup>th</sup>-21<sup>st</sup>, 2017. Proceeding is

published by International Journal of Electrical and Electronics Engineering & Telecommunications.

13. V. N. Ramyaka, G. Sree Durga , Dinesh Sharma, Purnima K Sharma, “Technologies and Applications of Wireless Body Area Network: A Review” was published in National Conference on Emerging Trends in Electronics and Communications Engineering (NCETEC) held at Bapatla Engineering College, Bapatla (A.P.), page no. 104- 108 in 20<sup>th</sup>-21<sup>st</sup> , 2017. Proceeding is published by International Journal of Electrical and Electronics Engineering & Telecommunications.
14. Ashwin Rajput, Sahil Gupta, Sarabpreet Singh and Dinesh Sharma, “Development on Orthodox Solar Energy Harnessing System” was published in 1<sup>st</sup> National Conference Innovations in Applied Science and Engineering held at NIT, Jalandhar (Punjab) on 27-28<sup>th</sup> April 2019.

*International/ National Journal*

1. Dinesh Sharma,Purnima K Sharma, Vishal Gupta, and R.K Singh “A Survey on Path Loss Models used in Wireless Communication System Design” was published in an International Journal of Recent Trends in Engineering and Technology, page no. 115-118, vol.-3 no.-2 in May 2010. Publisher: ACEEE, USA (a division of IDES), ISSN 2158-5563.
2. Dinesh Sharma,R.K.Singh, “QoS Requirements, Challenges and Consequences in FWANs” was published in International Journal of Electronics & Communication Engineering (IJECE) page no. 239-246, vol-3 no.-1 in May 2010. ISSN 0974-2166. Publisher:IRPH JOURNALS, India.
3. Dinesh Sharma,R.K.Singh, “A Review on QoS in GSM by Considering the Path Loss & Roadmap to its Realization” was

published in Inventi Impact – Tech. Research & Reviews in 2011, ISSN- 2249-1406. Publisher : Inventi Journals Pvt. Ltd. , BHOPAL, India

4. Dinesh Sharma,R.K.Singh, “The Effect of Path Loss on QoS at NPL” was published in an International Journal of Engineering Science and Technology (IJEST), page no. 3018-3023, Vol. 2(7), July, 2010.Ic value:3.14, ISSN: 0975-5462, Publisher: SIPS Technologies (Engg Journals Publications), India and Singapore.
5. Dinesh Sharma,R.K.Singh, “Wireless Propagation Models- A Review” was published in an International Journal of computer Information systems,page no. 10-18, vol.-1 no.-4 in Nov. 2010.
6. Dinesh Sharma,R.K.Singh, “A Modified Way of Evaluating Loss to Sustain the QoS in Highly Populated Area” is accepted for publishing in an International Journal of Advanced Science and Technology, page no.9-16, vol.29, April 2011.ISSN: 2221-8386, Publisher: Science & Engineering Research Support Society, Australia.
7. Dinesh Sharma,R.K.Singh, “QoS&QoE Management in WirelessCommunication System” was published in an International Journal of Engineering Science and Technology (IJEST), page no. 2391-2397, Vol. 3 No. 3 March 2011 .Ic value:3.14, ISSN: 0975-5462, Publisher: SIPS Technologies (Engg Journals Publications), India and Singapore.
8. ManjuKumari, TilotmaYadav, PoojaYadav ,Purnima K Sharma, Dinesh Sharma,“Comparative Study of Path Loss Models in Different Environments” was published in an International Journal of Engineering Science and Technology (IJEST) ,page no. 2945-2949, Vol. 3 No. 4 April 2011 .Ic value:3.14, ISSN: 0975-5462, Publisher: SIPS Technologies (Engg Journals Publications), India and Singapore.

9. Dinesh Sharma, R.K.Singh, ,“Analysis of Quality of Service in Flexi Base Transceiver Station Environment” was published in an international journal of mobile and ad-hoc networks (IJMAN), vol. 1 issue 3, page no.350-355 in Nov. 2011 .ISSN (Online) 2231–6825, *Impact factor:* 3.56, Publisher: DharaEduTech, New Delhi, India.
10. Dinesh Sharma,R.K.Singh, “A Review on Fading & Roadmap to its Realization” is accepted in international journal of electronics communication and computer engineering (IJECCCE), Vol.3 issue 1, page no.180-186, Jan. 2012.ISSN: 2249-071X, IF:1.0909, Publisher: IJECCCE, New Delhi.
11. Dinesh Sharma, R.K.Singh, “Analysis of Handover Initiation using Path Loss to Sustain QoS” is accepted in an International Journal of Scientific & Engineering Research (IJSER),pp. 1-6, Vol. 3 issue 5, May 2012.ISSN 2229-5518, IF:1.4.Publisher: IJSER.
12. Dinesh Sharma,Neha Sharma, Purnima K Sharma, InduGarg “Analysis of Transform Techniques for 2D Image Compression” was published in an International Journal of Engineering and Innovative Technology (IJEIT) Volume 1, Issue 5, page no. 78-82, May 2012. . Issn:2277-3754, IF:1.895, Publisher: (IJEIT).
13. Dinesh Sharma,Purnima K Sharma, Nishajangra, SunitaYadav, Chitrasaini, “Analysis of Cryptographic Technique under Visual Secret Sharing Scheme” was published in an International Journal of Engineering and Innovative Technology (IJEIT) Volume 1, Issue 5, page no. 63-69, May 2012. . ISSN:2277-3754, IF:1.895, Publisher: (IJEIT).
14. Dinesh Sharma,Purnima K Sharma, R.K.Singh, “Modified approach to estimate the propagation path loss in urban area” was published in an international journal of advances in electronics engineering, Vol.2, issue-3, page no. 119-123,

2012.ISSN:

2278-215x, IF:1.07, Publisher: Institute of Research Engineers and Doctors, USA

15. Dinesh Sharma and R.K.Singh, "Validation of Modified approach to estimate the propagation path loss in urban area to sustain the QoS during Dust Storms" was published in Ciit international journal of Wireless communication, Vol. 5, No.1, Jan. 2013.ISSN 0974–9640, (IF 0.572), Publisher: Coimbatore Institute of Information Technology, Coimbatore, India.
16. Upasana Yadav, J.P.Sharma, Dinesh Sharma, Purnima K Sharma, "Different Watermarking Techniques & its Applications: A Review" was published in International Journal of Scientific & Engineering Research (IJSER), Volume 5, Issue 4, April-2014, Page no. 1288-1294.ISSN 2229-5518 (IF 1.4), Publisher: IJSER.
17. Archana, J.P.Sharma, Dinesh.Sharma, Purnima K Sharma, "Outdoor Propagation Path Loss Models: A Review" was published in International Journal of Scientific & Engineering Research, Volume 5, Issue 4, April-2014, Page no. 1109-1113.ISSN 2229-5518 (IF 1.4), Publisher: IJSER.
18. Pooja Rani, Vinit Chauhan,Sudhir Kumar, Dinesh Sharma, "A Review on Wireless Propagation Models" was published in an International Journal of Engineering and Innovative Technology (IJEIT) Volume 3, Issue 11, page no. 256-261, May 2014. . ISSN:2277-3754, IF:1.895, Publisher: (IJEIT).
19. Dinesh Sharma, Purnima K Sharma, R.K.Singh, "Development of Propagation Model by Considering Different Climatic Conditions", was published in MAGNT Research Report (ISSN. 1444-8939),Vol. 2(6): Page no. 389-401, 2014.(IF:0.68). Publisher: BRIS Journal, Australia[[ISI Thomson Reuters Indexed](#)].
20. Purnima K Sharma, Dinesh Sharma, R.K.Singh, "Evolution of Mobile Wireless Communication Networks (0G-8G)", was

published in International Journal of Applied Engineering Research (IJAER) (Print ISSN 0973-4562, Online ISSN 1087-1090), Vol. 10 (6), Page no. 14765-14778, 2015. Publisher: Research India Publication [SCOPUS Indexed].

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Research Project Detail	<ul style="list-style-type: none"> <li>• Dinesh Sharma and D.S. Saini “Antenna Design for Energy Harvesting at RF Frequency” is completed scheme with value Rs. 100000.00 (One Lakh), DST Chandigarh-160019 (Approval Letter no. S&amp;T&amp;RE/RP/147(18-19)/Sanc/02/2019/336-343 dated 22.02.2019).</li> <li>• Dinesh Sharma and Shilpa Jindal “Design and Development of IoT based water quality Monitoring System for Chandigarh” is</li> </ul>

	<p>sanctioned with value of Rs. 50000 (Fifty Thousand only), DST &amp; RE, Chandigarh (UT). (Approval Letter no. S&amp;T&amp;RE/RP/147FY(21-22)/Sanc/10/2021/1022-1029 dated 28.10.2021).</p> <ul style="list-style-type: none"> <li>• Dinesh Sharma, Shilpa Jindal and D.S. Saini, “Assessment of Electromagnetic Radiations and its Effects in Chandigarh” is sanctioned with value of Rs. 100000.00 (One Lakh), DST Chandigarh-160019, (Approval Letter no. S&amp;T&amp;RE/RP/147/sanc/09/2024/809-904) dated 05.09.2024).</li> </ul>
Patent Detail	<ul style="list-style-type: none"> <li>• Patent granted for “A Novel Meander Line Multiband Antenna with Parasitic Elements”. F.No. 201911003653 dated 30<sup>th</sup> Jan. 2019 (Published on 22<sup>nd</sup> Feb. 2019 journal no. 08/2019).</li> <li>• Patent Applied for “An Automated and Adaptive Self-Power Generate Garbage Notification”. F.No. 201911004222 dated 3<sup>rd</sup> Feb. 2019 (Published on 22<sup>nd</sup> Feb. 2019 journal no. 08/2019).</li> <li>• Patent Applied for “A Novel Multiband Antenna for 5G Wireless Communications”. F.No. 201911008824 dated 7<sup>th</sup> Mar. 2019 (Published on 29<sup>th</sup> Mar. 2019 journal no. 13/2019).</li> <li>• Patent granted for “Slotted Wheel Microstrip Patch Antenna Based RF Energy Harvesting System”. F.No. 201941017384 dated 01<sup>st</sup> May 2019 (Published on 10<sup>th</sup> May 2019 journal no. 19/2019).</li> <li>• Patent Granted for “A Novel Dual Band Antenna for Wireless Body Area Network”. F.No. 201911037562 dated 18<sup>th</sup> Sept. 2019 (Published on 27<sup>th</sup> Sept. 2019 journal no. 39/2019).</li> <li>• Patent Applied for “Automatic Pest Control System for Protection of Grains in Public Warehouses”. F.No. 201941046823 dated 18<sup>th</sup> Nov. 2019 (Published on 29<sup>th</sup> Nov. 2019 journal no. 48/2019).</li> <li>• Patent Applied for “A Novel Multiband Hybrid Fractal Antenna with Parasitic Element”. F.No. 201911049193 dated 29<sup>th</sup> Nov. 2019 (Published on 20<sup>th</sup> Dec.2019 journal no.51/2019).</li> </ul>

	<ul style="list-style-type: none"> <li>• Patent granted for “PRANA MASK 2020”. F.No. 202041044180 dated 10<sup>th</sup>Oct. 2020 (Published on 16<sup>th</sup> Oct..2020 journal no.42/2020).</li> <li>• Australian Patent granted on Titled “A DEFECTED GROUND ANTENNA FOR WIRELESS BODY AREA NETWORK” Patent No.- 2021100926 dated 14th Feb.2021.</li> <li>• Design Patent granted for “Blood Glucose Meter” application No. 377767-001dated 21/01/2023.</li> <li>• Design Patent granted for “10-GON SHAPED COPLANAR MIMO ANTENNA” application no. 384232-001 dated 18/04/2023.</li> <li>• Design Patent granted for “A Defected Ground Plane Wheel Shaped Fractal Antenna” application no. 417276-001 dated 17/05/2024.</li> </ul>
Consultancy	N.A.
Ph.D Scholars Name	<ol style="list-style-type: none"> <li>1. Mr.M. Vinod Kumar (Thesis Submitted)</li> <li>2. Mr. J. Rajendra</li> <li>3. Ms. Neelam Yadav</li> </ol>
Institute Responsibility	<ol style="list-style-type: none"> <li>1. Member of department purchase committee (CCET/DG/SPA/SK/SF-52/2021-122/6245-48 Dated 24.03.2022)</li> <li>2. Institutional Technical Events In charge (CCET/ DG/2018-68/8309-8315)</li> <li>3. ECE Technical Club Faculty Coordinator (Endst. No. CCET/ DG/SSC/2019-92/ 2442-45 Dated 27/03/2019).</li> <li>4. Member of College IIC Cell (CCET/DG/SW/109/7144-47 dated 28.12.2020)</li> <li>5. Member of Research Advisory Committee ECE Dept. (CCET/DG/Acds/RF-157/2021/7697 dated 02.02.2021).</li> <li>6. I/C Workshop training</li> <li>7. Students Industrial Visit coordinator</li> <li>8. Member of NBA departmental committee</li> <li>9. Coordinator CCET Science Club (CCET/DG/SW/113/1439-42 Dated 20/07/2021).</li> <li>10. Store Purchase Officer (SPO)- (CCET/DG/SPA/SK/2023-24/4280 Dated 02/11/2023).</li> </ol>

Department Responsibility	<ol style="list-style-type: none"> <li>1. Regular Teaching and Research</li> <li>2. Faculty Coordinator ECE dept. Training and Placement (CCET/DG/2018/-59/7478-87).</li> <li>3. Departmental Coordinator of Product Re-engineering and Innovation (ST251)</li> <li>4. Dept. Communication Engineering Lab In charge</li> <li>5. Department Ph.D. Coordinator (HoD Email 06.02.2020)</li> <li>6. I/C Workshop training</li> <li>7. Students Industrial Visit coordinator</li> <li>8. Member of NBA departmental committee</li> </ol>
Any Other Information	

Signature of faculty