

Resume

Dr. Deepak Kedia

Professor,

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Qualifications: B.E. (ECE) **Gold Medalist**; M.Tech (Telecomm.) from **IIT-Kharagpur** and PhD in the field of OFDM / Multicarrier CDMA for Wireless Mobile Communication.

Pay Scale: Basic Pay: Rs. 1,72,200/- (at Academic Level 14).

Experience: Teaching and Research Experience of 22 years.

Date of Joining: March 1, 2005.

Areas of Interest: Wireless Communication, Spread Spectrum, CDMA technologies, OFDM, RoF, Communication Engineering, Nanotechnology and materials, Image Processing.

Research Contribution: Published 71 Research papers; guided 04 PhDs, 25 M.Tech Thesis and currently guiding 04 Ph.D. research scholars.

Research Profile Links:

(i) <https://vidwan.inflibnet.ac.in/profile/113573>

(ii) <https://www.webofscience.com/wos/author/record/52271050>

(ii) <https://www.scopus.com/authid/detail.uri?authorId=36016750100>

(iii) <https://orcid.org/0000-0001-7485-236X>

(iv) <https://scholar.google.co.in/citations?user=LROGqvWAAAAJ&hl=en>

Professional Society Membership: Member, IEEE

Major Responsibilities held:

1.	Director, Pt. Deen Dayal Upadhaya Innovation and Incubation Centre.
2.	Chief Mentor, AICTE Idea Lab.
3.	Chairperson, Dept. of Electronics & Communication Engineering, GJUS&T, Hisar.
4.	Chairperson, Dept. of Electrical Engineering, GJUS&T, Hisar.
5.	Dy. Director, Centre for Industry Institute Partnership (CIIP), GJUS&T, Hisar.
6.	Coordinator, B.Tech Admission Cell of the University.
7.	Member, Executive Council and Academic Council of GJUS&T, Hisar.
8.	Member, High Power Standing Purchase Committee (HPSPC), GJUS&T, Hisar.
9.	Member Expert Committees of GJUS&T, CDLU, DCRUST, KUK, BPSMV, UGC.

List of Major Publications:

S. No.	Major Publications
1.	“ <i>Photonic generation of frequency 12-tupling millimeter wave based on three cascaded-MZMs and polarization multiplexing</i> ”, Ankita Rani, Deepak Kedia ; Wiley International Journal of Communication Systems, Vol. 37, Issue-9, June-2024 (SCI indexed, I.F. 2.1).
2.	“ <i>Design and investigation of filterless six-tuple RoF upconversion system with improved sideband to carrier suppression ratio using MZM extinction ratio variance</i> ”, Ajay Kumar, Shelly Singla, Deepak Kedia ; De Gruyter Journal of Optical Communications, Published online Feb., 2024 (Scopus Indexed).
3.	“ <i>Mathematical Analysis of 24-Tupled mm-wave Generation Using Cascaded MZMs with Polarization Multiplexing for RoF transmission</i> ”, Ankita Rani, Deepak Kedia ; Springer Journal of Optical and Quantum Electronics, Vol. 56, 193, Feb-2024 (SCI indexed, I.F. 3.0).
4.	“ <i>A Review of Channel Coding Schemes in the 5G standard.</i> ”, Navin Kumar, Deepak Kedia & Gaurav Purohit; Springer Journal – Telecommunication Systems, Vol. 83, Issue 4, pp. 423–448, August 2023. (SCI-E indexed, I.F. 2.5).
5.	“ <i>An 18-Tupled Photonic Millimeter-Wave Generation Using Cascaded Mach-Zehnder Modulators</i> ”, Ankita Rani, Deepak Kedia ; Taylor & Francis Journal on Fiber and Integrated Optics, Vol. 42, Issue-1, pp. 1-19, Published Online: Jan-2023 (SCI-E indexed, I.F. 1.7).
6.	“ <i>Spectral Efficient Precoding Design for Multi-cell Large MU-MIMO System</i> ,” Jagtar Singh, Deepak Kedia ; Taylor & Francis IETE Journal of Research, pp. 1-16, Published Online: July-2020, ISSN: 0377-2063 (Print), 0974-780X (Online) (SCI-E indexed, I.F. 2.333).
7.	“ <i>Performance Improvement of Large-Scale MU-MIMO System with Multiple Antennas on Users Side in a Single Cell Downlink System</i> ,” Jagtar Singh, Deepak Kedia ; Springer Arabian Journal for Science and Engineering, Vol. 45, Issue-8, pp. 6769-6789, August-2020, ISSN: 2191-4281 (Print), 2193-567X (Online) (SCI-E indexed, I.F. 2.334).
8.	“ <i>Effect of bias current in proposed two-stage injection-locked optical OFDM MMF system</i> ,” M. Nehra, Deepak Kedia ; Springer Journal of Optics (February, 2020), https://doi.org/10.1007/s12596-020-00588-5 , ISSN: 0972-8821 (Print) 0974-6900 (Online) (SCOPUS Indexed).
9.	“ <i>Nanotechnology-based biomaterials for orthopaedic applications: Recent advances and future prospects</i> ,” Sandeep Kumar, Monika Nehra, Deepak Kedia , Neeraj Dilbaghi, K Tankeshwar, Ki-Hyun Kim; Elsevier Journal of Materials Science and Engineering: C, Vol. 106, January 2020, 110154, ISSN 0928-4931, (SCIE - IF: 4.959).
10.	“ <i>Performance Analysis of MIMO-OFDM System Using SLM with Additive Mapping and U2 Phase Sequence for PAPR Reduction</i> ,” Anuj Singal, Deepak Kedia ; Springer Journal on Wireless Personal Communications (November 2019), https://doi.org/10.1007/s11277-019-06921-x , ISSN: 0929-6212 (Print) 1572-834X (Online), (SCIE - IF: 0.929).
11.	“ <i>Investigation and suppression of fiber nonlinearities using injection-locking in OFDM-WDM system</i> ”, Deepak Kedia and Monika Nehra; Hindawi International Journal of Optics, (November 2018), Article ID 8690278. https://doi.org/10.1155/2018/8690278 (SCIE - IF: 1.167)
12.	“ <i>Extended Reach 10 Gb/s Transmission with an Optical I/Q Modulator using VCSELs over OFDM based Multimode Fiber Link</i> ,” Deepak Kedia , Monika; International Journal of Optics (ISSN: 1687-9384 (Print), DOI: 10.1155/2018/2395495), Hindawi Publishing Corporation, pp. 1-7, Volume 2018, May 2018. (SCIE - IF: 1.167).
13.	“ <i>Nanodiamonds: Emerging face of future nanotechnology</i> ”, Sandeep Kumar, Monika Nehra, Deepak Kedia , Neeraj Dilbaghi, K.Tankeshwar, and Ki-Hyun Kim; Elsevier Journal Carbon, 143 (March 2019), 678-699. https://doi.org/10.1016/j.carbon.2018.11.060 (SCI - IF: 7.466)
14.	“ <i>Carbon Nanotubes: A potential material for energy conversion and storage</i> ,” S. Kumar, M. Nehra, Deepak Kedia , N. Dilbaghi, T. Kumar & K. H. Kim; Elsevier Progress in Energy and Combustion Science, January 2018, Volume 64, 219-253. SCI Indexed (I.F. 26.467).
15.	“ <i>Quantum-sized Nanomaterials for Solar Cell Applications</i> ,” S. Kumar, M. Nehra, A. Deep, D. Kedia , N. Dilbaghi, & K. H. Kim; Elsevier Renewable and Sustainable Energy Reviews, Feb. 2017, Vol. 73, 821-839, SCIE (I.F. 10.556).
16.	“ <i>Simulative Parametric Study on Heterojunction Thin Film Solar Cells Incorporating Interfacial Nanoclusters Layer</i> ,” M. Grover, M. Nehra, D. Kedia ; Degryuter Journal of Energy Harvesting and Systems, Volume 6,

	Issue 1-2, Pages 23–28, Sept. 2019, ISSN (Online) 2329-8766, ISSN (Print) 2329-8774, DOI: https://doi.org/10.1515/ehs-2019-0004 , (SCOPUS Indexed).
17.	“A Low Complexity PAPR Reduction scheme for TDS OFDM Systems”, Pavika Sharma, Deepak Kedia ; Journal of Advanced Research in Dynamical and Control Systems, Institute of Advanced Scientific Research Publisher, USA, Vol. 10, 11- Special Issue, July 2018, pp-275-278 (Scopus Indexed).
18.	“Performance Analysis of Model Predictive Control Algorithm based PAPR Reduction of Time Domain Synchronous OFDM Systems”, Pavika Sharma, Deepak Kedia ; Journal of Advanced Research in Dynamical and Control Systems, Institute of Advanced Scientific Research Publisher, USA, Vol. 10, 11-Special Issue, July 2018, pp-1048-1053 (Scopus Indexed).
19.	“Performance Analysis of Antenna Selection Techniques in MIMO-OFDM System with Hardware Impairments: Energy Efficiency perspective,” Anuj Singal, Deepak Kedia ; IAES: International Journal of Electrical and Computer Engineering, vol. 8, no.4, pp. 2272-2279, August 2018 (Scopus Indexed).
20.	“Analysis of Four Wave Mixing Effects in 16 ×10 Gb/S WDM Optical Communication System”, Poonam Beniwal, Deepak Kedia ; Degruyter Journal of Optical Communications, October 2018, Ahead of Print, Vol. 42, No. 4, 2021, pp. 669 - 674, ISSN (Online) 2191 - 6322, ISSN (Print) 0173 - 4911, DOI: https://doi.org/10.1515/joc-2018-0145 . (Scopus Indexed).
21.	“Energy Efficiency Analysis of Antenna Selection Techniques in Massive MIMO-OFDM System with Hardware Impairments,” Anuj Singal, Deepak Kedia ; Journal of Computer Networks and Communication (ISSN: 2090-7141 (Print), DOI: 10.1155/2018/6131247), Hindawi Publishing Corporation, pp. 1-8, Volume 2018, May 2018. (SCOPUS Indexed .)
22.	“Performance Evaluation of Correlation Properties of Quasi Orthogonal Prime Codes for Optical CDMA Communication,” Deepak Kedia , Ankita Rani; Journal of Optical Communication (JOC), ISSN 0173-4911, De Gruyter, Germany, Published Online, Nov., 2017. DOI: https://doi.org/10.1515/joc-2017-0172 . (SCOPUS Indexed)
23.	“Performance Analysis of 2-D Prime Codes Encoded Optical CDMA System,” Ankita Rani, Deepak Kedia ; Journal of Optical Communication (JOC), ISSN 0173-4911, De Gruyter, Germany, Published Online, Sept., 2017. DOI: https://doi.org/10.1515/joc-2017-0115 . (SCOPUS Indexed .)
24.	“Examining Different Applications of Cloud-Based IoT,” Deepak Kedia & Gurjit Kaur; A Chapter in Reference Book on Examining Cloud Computing Technologies Through the Internet of Things, ISBN: 9781522534457, IGI Global Publisher, USA, pp. 125-146, Nov. 2017. Book Chapter .
25.	“Design of Optical I/Q Modulator using Dual Drive Mach-Zehnder Modulators in Coherent Optical-OFDM System”, By Monika, Deepak Kedia ; Journal of Optical Communication (JOC), ISSN 0173-4911, De Gruyter, Germany, Published Online, Nov., 2016. DOI: https://doi.org/10.1515/joc-2016-0089 . (SCOPUS Indexed)
26.	“Performance Analysis of a modified SC-FDMA-DSCDMA technique for 4G Wireless Communication”, Deepak Kedia , ArtiModi; Journal of Computer Networks and Communication (ISSN: 2090-7141 (Print), DOI: 10.1155/2014/747824), Hindawi Publishing Corporation, pp. 1-6, Volume 2014, December 2014. (SCOPUS Indexed)
27.	“Complexity Analysis of SLM PAPR Reduction Schemes in Wireless OFDM System”, By Anuj Singal and Deepak Kedia ; Proceedings IEEE International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT-2016); Chennai (India); pp. 1-6, March 3 - 5, 2016. IEEEExplore Digital Library, USA .
28.	“Comparative Analysis of Punctured Sequence Pairs for Frame Synchronization Applications”, By K.T. Arasu, Deeksha Arya, Deepak Kedia ; Proceedings IEEE International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT-2016); GGS Indraprastha University, New Delhi (India); pp. 470-475, March 11-13, 2016. IEEEExplore Digital Library, USA .
29.	“Performance Analysis of MIMO-OFDM System with Transceiver Hardware Impairments”, By Anuj Singal, Deepak Kedia , N. Jaglan, S.D. Gupta; Proceedings 4th IEEE International Conference on Signal Processing, Computing and Control (ISPCC 2k17), Sep 21-23, 2017, Solan, India, pp. 102-105. IEEEExplore Digital Library, USA .
30.	“One-pot synthesis of Cu-based metal-organic frameworks for environmental applications,” Monika Nehra, Deepak Kedia , Neeraj Dilbaghi, Ashraf Aly Hassan, Sandeep Kumar; AIP Conference Proceedings, Vol. 2115, 030202 (July 2019); https://doi.org/10.1063/1.5113041 , DAE Solid State Physics Symposium .
31.	“Spectral Efficient Precoding Algorithm for Large Scale MU-MIMO Communication System,” J. Singh, Deepak Kedia ; Proceedings 5th IEEE International Conference on Image Information Processing (ICIIP), Nov. 15-17, 2019, Shimla, India, pp. 391-396. IEEEExplore Digital Library, USA .

32.	“Simulative Analysis of Interface Defect on the Performance of CIGS Photovoltaic Cell without and with Additional Si Layer using SCAPS 1-D Software,” Jyotsana, Deepak Kedia ; Proceedings 6 th International Conference on Microelectronics, Computing & Communication Systems (MCCS-2021); July 17-18, 2021 (Springer Scopus Book Series).
33.	“Filterless millimeter-wave generation with tunable tupling factors using Dual-parallel MZMs,” Ankita, Deepak Kedia ; Proceedings of 4 th International Conference on Recent Trends in Computer Science and Technology (ICRTCST-2021); Feb. 11-12, 2022 (IEEEExplore Digital Library, USA)
34.	“ <i>A Study and Review of RoF Upconversion Techniques for Next Generation Communication Systems</i> ”, Ajay Kumar, Shelly Singla, Deepak Kedia ; Proceedings International Conference on Soft Computing: Theories and Applications (SoCTA 2021); pp. 101 – 112, Published online June 2, 2022 (Springer book series - LNNS, Volume 425)
35.	“ <i>Generation and Comparison of Filterless Octuple RoF Upconversion Systems Based on Cascaded and Dual Parallel MZM Configuration</i> ”, Ajay Kumar, Shelly Singla, Deepak Kedia ; Proceedings 3 rd International Conference on Mobile Radio Communications and 5G Networks (MRCN); pp. 517 – 524, Published online Feb. 15, 2023 (Springer book series - LNNS, Volume 588)
36.	“ <i>Monte Carlo Simulation of the Non-Systematic and Systematic Polar Codes</i> ,” Navin Kumar, Deepak Kedia & Gaurav Purohit; Proceedings 10 th International Conference on Signal Processing and Integrated Networks (SPIN); pp. 286 – 290, Mar. 23-24, 2023 (IEEEExplore Digital Library, USA)
37.	“ <i>Performance Analysis of 24-Tupled RoF System Based on Parallel MZMs and SOA</i> ”, Sonam Singh, Ankita Rani, Deepak Kedia ; Proceedings of NIELIT’s International Conference on Communication, Electronics and Digital Technology, pp. 423 – 434, Published online June 27, 2023 (Springer book series - LNNS, Volume 676).

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