

Dr. Koyel Datta Gupta

Associate Professor

Department of Computer Science and Engineering

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EXPERIENCE: 17 years 6months

Vidwan-ID: 240950

Memberships of Professional bodies **IEEE Member**

AREA OF INTEREST/SPECIALIZATION: Wireless Communication, Machine Learning, IoT and Blockchain

EDUCATION

- **Ph.D (Jamia Millia Islamia)**
- **M. Tech (Gold Medal, Jadavpur University)** secured 87.81% marks.
- **B. Tech (Kalyani University)** secured **85.56%** marks.

EXPERIENCE

S. No.	Duration	Employer Name	Positions Held
1	30 March 2016 - till date	Maharaja Surajmal Institute of Technology, New Delhi	Associate Professor
2	August 2009 - 29 March 2016	Maharaja Surajmal Institute of Technology, New Delhi	Reader
3	January 2009 - July 2009	Maharaja Surajmal Institute of Technology, New Delhi	Lecturer
4	September 2007 - December 2008	Dronacharya College of Engineering, Gurgaon	Lecturer
5	August 2004 - December 2006	Techno India, Saltlake, Kolkata, West Bengal	Lecturer
6	July 2003 - July 2004	Oriens Infotech, Saltlake, Kolkata, West Bengal	Faculty

KEY PUBLICATIONS

SCI/ ESCI Indexed

1. K. D. Gupta, R. Nigam, D. K. Sharma and S. K. Dhurandher, "LSTM based Energy-Efficient Wireless Communication with Reconfigurable Intelligent Surfaces," in IEEE Transactions on Green Communications and Networking, doi: 10.1109/TGCN.2021.3135437.
2. A. Goel, D.K. Sharma, and K. D. Gupta, "LEOBAT: Lightweight encryption and OTP based authentication technique for securing IoT networks," *Expert Systems*, e12788, 2021. (Impact Factor: 2.587).
3. K.D.Gupta, D. K. Sharma, S. Ahmed,H. Gupta, D. Gupta and C. H. Hsu, " A Novel Lightweight Deep Learning-Based Histopathological Image Classification Model for IoMT," *Neural Processing Letters*, pp. 1–24, 2021.(Impact Factor: 2.908).
4. S. Banyal, R. Dwivedi, K.D. Gupta, D.K. Sharma, F.A.Turjman and L. Mostarda, "Technology Landscape for Epidemiological Prediction and Diagnosis of COVID-19," *Computers, Materials & Continua*, Vol.67, No.2, pp.1679-1696,2021. .(Impact Factor: 3.772)
5. M.Sharma, S.Pant, D.K. Sharma, K.D.Gupta, V. Vashishth, A. Chhabra, "Enabling security for the Industrial Internet of Things using deep learning, blockchain, and coalitions," *Transactions on Emerging Telecommunications Technologies*, Vol. 32 , No. 7, 2021.(Impact Factor: 2.638).
6. K. D. Gupta, R. Dwivedi and D. K. Sharma,"Prediction of Covid-19 trends in Europe using generalized regression neural network optimized by flower pollination algorithm," *Journal of Interdisciplinary Mathematics*, Vol. 24, No. 1, pp. 33-51, 2021.
7. Koyel Datta Gupta, A. Q. Ansari, P.C. Saxena and Rinky Dwivedi "Optimizing channel allocation in WiMAX MIMO model using fuzzy game theory," *Journal of Information and Optimization Sciences*, vol. 41 no. 7 <https://doi.org/10.1080/02522667.2020.1799510>. August, 2020.

SCOPUS and OTHER REFERRED JOURNALS

1. A. Q. Ansari, P.C. Saxena and Koyel Datta Gupta, "Channel Allocation with Sub-Optimal Power Control in WiMAX Networks using Fuzzy Inference System," *Procedia Computer Science*, Elsevier vol. 57, pp. 152-159, 2015.
2. A. Q. Ansari, P.C. Saxena and Koyel Datta Gupta, "Traffic Load Adaptive Hybrid Channel Allocation in Wireless Communication Network," *Communications (ACTA Press)*, vol. 3, pp. 1-10, 2014. doi: 10.2316/Journal.214.2014.3.214-1073.
3. A. Q. Ansari, P.C. Saxena and Koyel Datta Gupta, "Token Based Distributed Dynamic Channel Allocation in Wireless Communication Network," *CSI Transactions on ICT (Springer)*, vol. 2, no. 2, pp. 109-116, 2014. doi: 10.1007/s40012-014-0051-7.

PAPERS IN CONFERENCES

1. Koyel Datta Gupta, Aditya Garg, Himanshu Bhaskar and Paras Jain, "Behaviour Prediction using Graphology" in Proc. 3rd International Conference on Innovative Computing and Communication (Elsevier) 2020 . Available at SSRN: <https://ssrn.com/abstract=3562969>.

2. A. Q. Ansari and Koyel Datta Gupta, "A Survey on Power Distribution in Wireless Mesh Network," in Proc. 12th IEEE International India Conference 2015, pp. 1-4, available on <http://ieeexplore.ieee.org>, December, 2015. DOI: 10.1109/INDICON.2015.7443276
3. A. Q. Ansari, P.C. Saxena and Koyel Datta Gupta, "Reliable Energy Efficient Channel Assignment in WiMAX Mesh Networks," in Proc. 3rd International Conference on Reliability, Infocom Technologies and Optimization, pp. 219-222 October 2014. [Online] Available: <http://ieeexplore.ieee.org>. doi: 10.1109/ICRITO.2014.7014690.
4. A. Q. Ansari, P.C. Saxena, K.D. Gupta, "Cost Optimized K-Fault Tolerant Channel Assignment in Wireless Network, " in Proc. Int. Conf. On Parallel, Distributed and Grid Computing, pp. 18-21, December 2012. [Online] Available: <http://ieeexplore.ieee.org>. doi:10.1109/PDGC.2012.6449784.
5. A. Q. Ansari, P.C. Saxena and Koyel Datta Gupta, "Fuzzy Clustering Based Channel Allocation in Cellular Network, " in Proc. Int. Conf. On Computational Intelligence and Communication Networks, pp. 815-818, November 2012. [Online] Available: <http://ieeexplore.ieee.org>. doi: 10.1109/CICN.2012.117.
6. A. Q. Ansari, Koyel Datta Gupta and M. Dabas, "Optimal Design of Single Fault Tolerant Candidate Set for a Communication Network," in Proc. Int. Conf. On Communication Systems and Network Technologies, pp. 590 – 593, May 2012. [Online] Available: www.ieeexplore.org doi: 10.1109/CSNT.2012.133.
7. A. Q. Ansari, M. Dabas and Koyel Datta Gupta, "Efficient Node Numbering for Cost Effective K-Fault Tolerant Wireless Network," in Proc. 3rd IEEE Int. Conf. On Comp. Sc. And Inf. Tech., China, Vol. 7, pp. 534 – 537, September 2010. [Online] Available: www.ieeexplore.org doi: 10.1109/ICCSIT.2010.556481.

BOOKS /BOOK CHAPTER PUBLISHED

1. C.S.Verma, Rajesh Purohit, Koyel Datta Gupta and Harsha Verma, Computer Graphics & CAD, Manakin Press, 2015. ISBN:978-93-84370-05-3.
2. A. Q. Ansari and Koyel Datta Gupta, Fuzzy Game Theory for Web Security, Applications of Soft Computing for the Web, Springer, 2017. ISBN: 978-981-10-7097-6.
3. R. Dwivedi, K.D. Gupta, D. Sharma, Security and Surveillance at Smart Homes in a Smart City Through Internet of Things, Springer, 2021. ISBN: 978-3-030-52624-5.
4. R. Dwivedi, K.D. Gupta, Green Computing in Network Security: Energy Efficient Solutions for Business and Home. Taylor & Francis. ISBN: 978-0367-56292-2.

PATENT/COPYRIGHT

1. Dr. Robin Singh Bhadoria, Dr. Tripti Sharma, Mr. Akshat Goyal, Dr. Rinky Dwivedi, Dr. Koyel Datta Gupta, Dr. Rekha Tripathi, Dr. Archana Balyan, Dr. Meena Rao, " Method for Authenticating and Validating Quick Response Code," Patent No. 202121010704 A, Date of filing: 14-3-2021, Date of Publishing: 9-4-2021.
2. Dr. Gaurav Dubey, Dr. Pooja Malik, Dr. Charu Agarwal, Anurag Mishra, Dr. Deepak Kumar Sharma, Dr. Koyel Datta Gupta, Dr. Rinky Dwivedi, "Sensor Based Electronic Device," Patent No. 202111019223 A, Date of filing: 27/04/202, Date of Publishing:30/04/2021.

3. Dr. Koyel Datta Gupta, Dr. Rinky Dwivedi, Dr. Deepak Kumar Sharma, Dr. Tripti Sharma, Dr. Alka Singhal, “A Wearable Sensor Based Customized Menstrual Cycle Predictor,” Patent No. 202111043930 A, Date of filing:28-09-2021, Date of Publication: 15-10-2021.
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IMPORTANT FDP ATTENDED

1. 1-week AICTE_ATAL FDP on Internet of Things (IoT)- A Practical Approach (6.12.2021-15.10.2021).
 2. 2-weeks Industrial Training on “Data Science” (15.11.2021-26.11.2021).
 3. 4-weeks MOOCS course on “C programming and Assembly Language” (July-Aug 2021).
 4. 1-week AICTE Refresher Programme on "Use of ICT in Engineering Education" (24.2.2021-2.3.2021).
 5. 4- weeks MOOCS course on “Medical Image Analysis” (24.2.2020 – 20.3.2020).
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AWARDS / RECOGNITIONS and ACHIEVEMENTS

1. **Gold Medal** in M.Tech with **87.81%**.
 2. AICTE certified Mentor for inductee teachers.
 3. Editor “Green Computing in Network Security: Energy Efficient Solutions for Business and Home.” Taylor & Francis. ISBN: 9780367562922.
 4. Awarded with Certificate of Appreciation for the academic year 2014-2015 during Annual Day of MSIT 2015 in recognition for outstanding contribution and continued dedication towards the multi-dimensional growth of the Institute
 5. Received Letter of Appreciation from Hon’ble President SMES on 2016 for rendering excellent services for the academic growth of the Institute.
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OTHER CONTRIBUTIONS

1. Publication committee In charge National Conference on Advances in Metrology (AdMET 2021).
2. Publication committee In charge International Conference (ICAIA 2020).
3. Certified ISO Auditor.
4. Participated in the National Conference on Advances in Metrology (AdMET 2021) as Session chair held on 5-6 Mar 2021.
5. Participated in the International Conference on Innovative Computing and Communication (ICICC-2020), as Session chair held on 21-23 Feb 2020.
6. Participated in the International Conference on Artificial Intelligence and Applications 2020(ICAIA) as Session chair held on 6-7 Feb 2020.

7. Participated in the NAAC sponsored National Conference on Quality Assurance in Higher Education: Practices and Issues as Co- chair held on 16-17 May 2019.
8. Participated as Guest Speaker on “Supervised Techniques for COVID-19 Assessment” in Online FDP on research Aspects in Modern Analytics and Cyber Security Jaypee Institute of Information Technology 20-24 July 2020.
9. Participated as Guest Speaker on “Wireless Cellular Network” in Emerging Trends in Information Technology at Maharaja Surajmal Institute of Technology, New Delhi, India, 29 Feb-4 March 2016.

ROLES AND RESPONSIBILITIES HELD IN THE COLLEGE

S. No.	Description	Role & Duration
1	NAAC and IQAC	<ul style="list-style-type: none"> • Coordinator (August 2018-Present)
2	AICTE	<ul style="list-style-type: none"> • Coordinator August 2021-Present • Member 2010-2021
3	UNDERSTANDING and IMPLEMENTATION OF LEGAL REQUIREMENTS	<ul style="list-style-type: none"> • Updating and Record Keeping of all approval letters
4	HOD (Department of Computer Science & Engineering, 1 st Shift)	<ul style="list-style-type: none"> • August 2016-August 2020
5	TIME TABLE	<ul style="list-style-type: none"> • Member (2019-20)
6	RESEARCH COMMITTEE	<ul style="list-style-type: none"> • Member (2017-18)
7	MOODLE	<ul style="list-style-type: none"> • Convenor (2017-18) • Convenor (2018-19)
8	JAC and ACADEMIC AFFILIATION	<ul style="list-style-type: none"> • Member (2015-16) • Member (2016-17)
9	INDUSTRY INSTITUTE CELL	<ul style="list-style-type: none"> • Member (2017-18)
10	FEE REGULATORY	<ul style="list-style-type: none"> • Co-coordinator (2017)
11	EXAM CELL	<ul style="list-style-type: none"> • Co-convenor (2015-16)
12	ALUMNI COMMITTEE	<ul style="list-style-type: none"> • Coordinator (2014)