

# Dr. Koyel Datta Gupta

## Associate Professor

Department of Computer Science and Engineering

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**EXPERIENCE:** 17 years 6months

**Vidwan-ID :** 240950

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Memberships of Professional bodies **IEEE Member**

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

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## EDUCATION

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

### SCI/ ESCI Indexed

1. 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).
2. 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)
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. 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).

5. 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.
6. 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.

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### **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.

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### **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](http://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](http://www.ieeexplore.org) doi: 10.1109/ICCSIT.2010.556481.

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### **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: 27/04/2021, 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. 4 weeks MOOCS course on "C programming and Assembly Language" (July-Aug 2021).
2. 1 week Refresher Programme on "Use of ICT in Engineering Education" (24.2.2021-2.3.2021).
3. 1 week FDP on "IoT Training" (4.1.2021-9.1.2021).
4. 4 weeks MOOCS course on "Medical Image Analysis" (24.2.2020 – 20.3.2020).

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### **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.
1. 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.
2. R. Dwivedi, K.D. Gupta, Green Computing in Network Security: Energy Efficient Solutions for Business and Home. Taylor & Francis. ISBN: 978-0367-56292-2.

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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. HOD–CSE Department (August 2016 – August 2020)
2. IQAC/NAAC In charge (August 2019- till date)
3. AICTE In charge (August 2021- till date)
4. Publication committee In charge National Conference on Advances in Metrology (AdMET 2021).
5. Publication committee In charge International Conference (ICAIA 2020).
6. Certified ISO Auditor.
7. Participated in the National Conference on Advances in Metrology (AdMET 2021) as Session chair held on 5-6 Mar 2021.
8. Participated in the International Conference on Innovative Computing and Communication (ICICC-2020), as Session chair held on 21-23 Feb 2020.
9. Participated in the International Conference on Artificial Intelligence and Applications 2020(ICAIA ) as Session chair held on 6-7 Feb 2020.
10. 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.
11. 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.
12. 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.