**Kamal Kumar Gola**

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Google Scholar: <https://scholar.google.co.in/citations?user=yNfLfrAAAAAJ&hl=en>

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Publons Id: <https://publons.com/researcher/1618255/kamal-kumar-gola/>

Research Gate Id: <https://www.researchgate.net/profile/Kamal-Gola>

**CARRER OBJECTIVE**

To work for an organization that offers ample opportunities to learn and a challenging work environment to work for a rapid growth.

**WORK EXPERIENCES**

* Working as **Assistant Professor** in College of Engineering Roorkee (COER), Roorkee from 1st September 2021 to till date.
* Worked as **Assistant Professor** in Faculty of Engineering, Teerthanker Mahaveer University, Moradabad from 17th August 2009 to 31st August 2021.
* Worked with Annex Software Technology, Noida from October ‘2008 to April ’2009.

**ACADEMIC QUALIFICATIONS**

* Pursuing **Doctor of Philosophy** in Computer Science and Engineering from **Indian Institute of Technology, Jodhpur.**
* Completed **Master of Technology** in Computer Science and Engineering from **Uttarakhand Technical University** in 2015.
* Completed **Bachelor of Technology** in Computer Science & Engineering from **Moradabad Institute of Technology**, Moradabad affiliated to Uttar Pradesh Technical University in 2008.
* Completed **Intermediate** examination from **UP board** in 2004.
* Completed **High School** examination from **UP board** in 2002.

**NPTEL CERTIFICATION**

* Wireless Ad Hoc and Sensor Networks
* Cloud Computing
* Introduction to Internet of Things
* Cryptography and Network Security
* Introduction to Industry 4.0 and Industrial Internet of Things
* Software Engineering
* Cloud Computing

**AWARDS & ACHIEVEMENT**

* Certificate of Appreciation with reward money Rs 31,000/- for outstanding contribution in Research and Development
* **Researcher of the Year Award** by COER Institute of Higher Education 2022
* **Young Scientist Award** during 11th International Scientist Awards on Engineering, Science, and Medicine held on 17 & 18-Oct-2020 in Kolkata, India.
* **Outstanding paper Award** during 10th SocProS-2020 held at Indian Institute of Technology Indore, India.
* Certificate of Appreciation **“NPTEL Discipline Star”,** 2019.
* **Best Paper Award** in ICEDET-2022
* **Certificate of Appreciation and Recognition From Yaseen Academy,** Conference Committee members of International Conference
* Smart India Hackathon Team Mentor of year 2022.
* Team Lead of NASA Space App in Uttarakhand.
* IIT-R 175 Year’s Collaboration under Data Science project (CO-PI)

**MEMBERSHIP**

* Life Time Member of International Association of Engineers (IAENG): Hong Kong.
* Life Time Member of Indian Society of Technical Education (ISTE): New Delhi.
* Life Time Member of Cryptography Research Society of India (CRSI): Kolkata.
* IEEE Professional Membership (Uttar Pradesh Section)

**CONSULTANCY PROJECTS**

* Consultancy Project of IT services (Texplas pvt. Ltd.) of 3 Lakhs. (CO-PI)

**PUBLICATIONS**

***JOURNALS***

* Machine Learning Techniques in Structural Health Monitoring: A systematic review. **(Accepted with Minor Revisions, Multimedia Tools and Applications, Springer, SCI/SCIE Indexed).**
* Singh, L., Agrawal, N., Gola, K.K. et al. Numerical investigation of all optical SR flip-flop using plasmonic metal–insulator-metal (MIM) waveguides. Opt Quant Electron 54, 381 (2022). **SCI/SCIE Indexed)**
* Kumar, A., mehbodniya, A., Webber, J., Anul Haq, M., Gola, K., Singh, P., Karupusamy, S. and Bader Alazzam, M., 2022. Optimal cluster head selection for energy efficient wireless sensor network using hybrid competitive swarm optimization and harmony search algorithm. Sustainable Energy Technologies and Assessments, 52, p.102243. **SCI/SCIE Indexed)**
* Shabu, S., Yadav, K., Kariri, E., Gola, K., AnulHaq, M. and Kumar, A., 2022. Trajectory clustering and query processing analysis framework for knowledge discovery in cloud environment. Expert Systems. **SCI/SCIE Indexed)**
* Gola, K., Gupta, B., 2022. Void Node Avoidance in Underwater Acoustic Sensor Network Using Black Widow Optimization Algorithm. Adhoc & Sensor Wireless Networks, 52, p. 45-71. 27. **SCI/SCIE Indexed)**
* Gupta, Bhumika, Kamal Kumar Gola, and Manish Dhingra. 2021. "HEPSO: An Efficient Sensor Node Redeployment Strategy Based on Hybrid Optimization Algorithm in UWASN". *Wireless Networks* 27 (4): 2365-2381. doi:10.1007/s11276-021-02584-4. **(SCI/SCIE Indexed)**
* Gola, Kamal Kumar, and Bhumika Gupta. 2021. "Underwater Acoustic Sensor Networks: An Energy Efficient and Void Avoidance Routing Based on Grey Wolf Optimization Algorithm". *Arabian Journal for Science and Engineering* 46 (4): 3939-3954. doi:10.1007/s13369-020-05323-7. **(SCI/SCIE Indexed)**
* Gola, Kamal Kumar, Nishant Chaurasia, Bhumika Gupta, and Deepak Singh Niranjan. 2021. "Sea Lion Optimization Algorithm Based Node Deployment Strategy in Underwater Acoustic Sensor Network". *International Journal of Communication Systems* 34 (5). doi:10.1002/dac.4723. **(SCI/SCIE Indexed)**
* Gola, Kamal Kumar, Manish Dhingra, and Bhumika Gupta. 2020. "Void Hole Avoidance Routing Algorithm for Underwater Sensor Networks". *IET Communications* 14 (21): 3837-3844. doi:10.1049/iet-com.2019.1325. **(SCI/SCIE Indexed)**
* Gola, Kamal Kumar, and Bhumika Gupta. 2020. "Underwater Sensor Networks: ‘Comparative Analysis on Applications, Deployment and Routing Techniques’". *IET Communications* 14 (17): 2859-2870. doi:10.1049/iet-com.2019.1171. **(SCI/SCIE Indexed)**
* Rohit, Bhumika Gupta, and Kamal Kumar Gola. 2020. "Analysis Of Machine Learning For Processing Big Data in High Performance Computing: A Review". *EAI Endorsed Transactions on Cloud Systems* 6 (19): 166353. doi:10.4108/eai.7-9-2020.166353.
* Kumar, Vipin, Kamal Kumar Gola, Prashant Kumar, and Pradeep Kumar Verma. 2020. "LAX OPERATOR APPROACH FOR GLOBAL EXISTENCE AND UNIQUENESS CONDITION WITH KAC VAN-MOERBEKE HIERARCHY". *Advances in Mathematics: Scientific Journal* 9 (3): 751-756. doi:10.37418/amsj.9.3.4. **(Scopus Indexed)**
* Khan, Gulista, Kamal Kumar Gola, and Manish Dhingra. 2020. "Efficient Techniques for Data Aggregation in Underwater Sensor Networks". *Journal of Electrical Systems* 16 (1): 90-104. **(Scopus, ESCI Indexed)**
* Iqbal, Zubair, Prachi Gupta, and Kamal Kumar Gola. 2020. "Visualization of COVID-19 Data Using Jupyter Notebook". *Dogo Rangsang Research Journal* 10 (7): 1-7. **(UGC Approved)**
* Gola, Kamal Kumar, Manika Gupta, Gulista Khan, and Pankaj Rajput. 2020. "Circular Queue Based Data Encryption Algorithm Using 512 Random Bits". *Journal of Information Assurance & Security* 15 (1): 34-43. **(ESCI Indexed)**
* Sharma, Shivom, Vipin Kumar, Abhinav Saxena, and Kamal Kumar Gola. 2020. "A Method on the False Discovery Distribution for Controlling Quantities". *Journal of Critical Reviews (JCR)* 7 (16): 3579-3584. doi:10.31838/jcr.07.16.456. **(Scopus Indexed)**
* Gola, Kamal Kumar, and Bhumika Gupta. 2019. "An Energy Efficient Quality Of Service (QoS) Parameters Based Void Avoidance Routing Technique for Underwater Sensor Networks". *Jordanian Journal of Computers and Information Technology* 5 (3): 244-262. doi:10.5455/jjcit.71-1562930035. **(Scopus Indexed)**
* Gola, Kamal Kumar, and Bhumika Gupta. 2019. "Efficient Node Deployment Algorithm for Enhancing Connectivity and Coverage in Underwater Sensor Networks". *Sensor Letters* 17 (12): 947-954. doi:10.1166/sl.2019.4183. **(Scopus Indexed)**
* Gola, Kamal Kumar, Bhumika Gupta, and Gulista Khan. 2019. "Underwater Sensor Networks: A Heuristic Approach for Void Avoidance and Selection of Best Forwarder". *International Journal of Scientific & Technology Research* 8 (8): 1716-1721. **(Scopus Indexed)**
* Khan, Gulista, Kamal Kumar Gola, and Manish Dhingra. 2019. "Multihop Vector Based Routing For Void Avoidance In UWSN–A Linear Programming Approach". *International Journal of Scientific & Technology Research* 8 (8): 481-488. **(Scopus Indexed)**
* Gupta, Anushka, Bhumika Gupta, and Kamal Kumar Gola. 2019. "Internet of Things (IoT) For Detecting, Monitoring and Measuring Water Quality*". International Journal of Computer Sciences and Engineering* 7 (4): 1114-1119. **(UGC Approved)**
* Dhingra, Manish, Gulista Khan, and Kamal Kumar Gola. 2019. "An Improved Version of Playfair Technique". *International Journal of Innovative Technology and Exploring Engineering* 8 (9): 2581-2585. doi:10.35940/ijitee.i8552.078919. **(Scopus Indexed)**
* Gola, Kamal Kumar, Manish Dhingra, and Rahul Rathore. 2019. "Modified Version Of Playfair Technique To Enhance The Security Of Plaintext And Key Using Rectangular And Substitution Matrix". *International Journal of Innovative Technology and Exploring Engineering* 8 (5): 2079-2084. doi:E7518068519/19©BEIESP. **(Scopus Indexed)**
* Gola, Kamal Kumar, and Bhumika Gupta. 2018. "Underwater Sensor Networks: An Efficient Node Deployment Technique For Enhancing Coverage And Connectivity: END-ECC". *International Journal of Computer Network and Information Security* 10 (12): 47-54. doi:10.5815/ijcnis.2018.12.06. **(Scopus Indexed)**
* Rathore, Rahul, Kamal Kumar Gola, and Shivanshu Rastogi. 2018. "Secure: Dynamic Distributed Load Balancing Technique in Cloud Computing". *International Journal of Advanced Research in Computer Science* 9 (1): 415-418. doi:10.26483/ijarcs.v9i1.5400. **(UGC Approved)**
* Pal, Vastvikta, Sweta Srivastav, Vivek Kumar, and Kamal Kumar Gola. 2018. "Secure and Authenticated Cryptographic Technique". *International Journal of Higher Education and Research (IJHER)* 8 (2): 322-333. **(UGC Approved)**
* Gola, Kamal Kumar, and Bhumika Gupta. 2017. "Underwater Sensor Networks Routing (UWSN-R): A Comprehensive Survey". *Sensor Letters* 15 (11): 877-890. doi:10.1166/sl.2017.3896. **(Scopus Indexed)**
* Rathore, Rahul, Bhumika Gupta, and Kamal Kumar Gola. 2017. "A Frame Work For Implementing Fractal Image Compression And Adaptive Byte Fractal Image Compression In Cloud Computing: A New Approach". *International Journal of Computer Applications* 158 (2): 19-22. doi:10.5120/ijca2017912745.
* Khan, Gulista, Rakesh Kumar Dwivedi, and Kamal Kumar Gola. 2016. "CDA-Clone Detection Algorithms in Wireless Sensor Networks". *International Journal of Computer Science and Information Security (IJCSIS)* 14 (7): 434-442.
* Kaushik, Manjari, Kamal Kumar Gola, Gulista Khan, and Rahul Rathore. 2016. "Detection of Sybil Attacks in Structured P2P Overlay Network". *International Journal of Computer Applications* 136 (6): 18-23. doi:10.5120/ijca2016908466.
* Iqbal, Zubair, Kamal Kumar Gola, Bhumika Gupta, and Manisha Kandpal. 2015. "Dual Level Security for Key Exchange Using Modified RSA Public Key Encryption in Playfair Technique". *International Journal of Computer Applications* 111 (13): 5-9. doi:10.5120/19596-1408.
* Iqbal, Zubair, Bhumika Gupta, Kamal Kumar Gola, and Prachi Gupta. 2014. "Enhanced the Security of Playfair Technique using Excess 3 Code (XS3) and Ceasar Cipher". *International Journal of Computer Applications* 103 (13): 16-20. doi:10.5120/18134-9281.
* Gola, Kamal Kumar, Bhumika Gupta, and Zubair Iqbal. 2014. "Implementation and Result Analysis of Secure Strategy for High Speed Transmission and Efficient Collection of Data in Wireless Sensor Network". *International Journal of Computer Applications* 108 (12): 19-27. doi:10.5120/18963-0297.
* Gola, Kamal Kumar, and Bhumika Gupta.2014. “Modified RSA Digital Signature Scheme for Data Confidentiality”. *International Journal of Computer Applications* 106(13):13-16, doi: 10.5120/18579-9848.
* Rathore, Rahul, Bhumika Gupta, Vaibhav Sharma, and Kamal Kumar Gola. 2014. "A New Approach For Load Balancing In Cloud Computing". *International Journal of Computers & Technology* 13 (12): 5193-5198. doi:10.24297/ijct.v13i12.5277. **(UGC Approved)**
* Gola, Kamal Kumar, Bhumika Gupta, and Zubair Iqbal. 2014. "Secure Strategy for High Speed Transmission & Efficient Collection of Data in WSN Research". *International Journal of Scientific & Engineering Research* 5 (9): 547-555. **(UGC Approved)**
* Gola, Kamal Kumar, Bhumika Gupta, and Zubair Iqbal. 2014. "High Speed Data Collection in Wireless Sensor Network". *International Journal of Advance Research and Innovation* 2 (3): 618-622.
* Iqbal, Zubair, and Kamal Kumar Gola. 2013. "Performance Evaluation of Multiple TCP Connection over Different Routing Protocols in MANET". *IJCIS* 6 (4): 25-30.
* Sharan, Hariom, Vaibhav Sharma, Rahul Rathore, and Kamal Kumar Gola. 2012. "New Enhanced Hybrid Algorithm with RSA, DSA and Diffie Hellman Key Exchange Encryption Algorithm". *IJCIS* 4 (5): 38-41.

***CONFERENCES***

* Coding Framework for Energy Efficient Event Reliability Protocol for Wireless Communication Networks, **Accepted in ICTACS-2022, Amity University, Uzbekistan.**
* Detecting Depression in Reddit Posts using Hybrid Deep Learning Model LSTM-CNN. **Accepted in ICTACS-2022, Amity University, Uzbekistan.**
* Odd Even: “A Hybrid Search Technique Based on Bi-Linear and Jump Search. Accepted in **ICRAIT 2022.**
* Kamal Kumar Gola, Rohit Kanauzia, Narayan Jee, Amit Kumar. Underwater Sensor Networks: A Fault Tolerant Mechanism for Detection and Recovery from Sink Failure. Accepted in Scopus Indexed Journal through ICEDET-2022.
* Gupta, B., Gola, K., Jee, N. and Dimri, P., 2022. Energy-Efficient Routing Protocol for Congestion Control in Wireless Sensor Network. *2022 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)*. **(IEEE Conference)**
* Agarwal, Anshika, Y.D.S. Arya, Gaurav Agarwal, Shruti Agarwal, and Kamal Kumar Gola. 2020. "A Fuzzy Based Decision Support System For Irrigation Process In Precision Agriculture". *2020 9Th International Conference System Modeling and Advancement in Research Trends (SMART)*. doi:10.1109/smart50582.2020.9337080. **(IEEE Conference)**
* Gupta, Bhumika, Kamal Kumar Gola, and Manish Dhingra. 2019. "Wireless Sensor Networks: “A Review on Replica Detection Techniques”". *2019 8Th International Conference System Modeling And Advancement in Research Trends (SMART)*. doi:10.1109/smart46866.2019.9117544. **(IEEE Conference)**
* Pandey, Preeti, Garima Joshi, and Kamal Kumar Gola. 2016. "A Zone Based Improved Disk Scheduling Algorithm". *2016 International Conference on Advances in Computing, Communication, & Automation (ICACCA) (Spring)*. doi:10.1109/icacca.2016.7578901. **(IEEE Conference)**
* Khan, Gulista, Kamal Kumar Gola, and Rahul Rathore. 2015. "Robust Data Aggregation, Encryption and Data Transfer in UWSNs". *1St International Conference on Next Generation Computing Technologies (NGCT)*. doi:10.1109/ngct.2015.7375150. **(IEEE Conference)**
* Sharma, Vaibhav, Kamal Kumar Gola, Gulista Khan, and Rahul Rathore. 2015. "Key Sharing Technique to Preserve Integrity and Confidentiality". *Second International Conference on Advances in Computing and Communication Engineering*. doi:10.1109/icacce.2015.48. **(IEEE Conference)**
* Khan, Gulista, Kamal Kumar Gola, and Wajid Ali. 2015. "Energy Efficient Routing Algorithm for UWSN - A Clustering Approach". *2015 Second International Conference on Advances in Computing and Communication Engineering*. doi:10.1109/icacce.2015.42. **(IEEE Conference)**
* Gola, Kamal Kumar, Rahul Rathore, and Vaibhav Sharma. 2015. "Secure Key Exchange in Diffie Hellman Key Exchange Algorithm". *International Conference of Advance Research and Innovation*, 41.
* Khan, Gulista, Kamal Kumar Gola, Vaibhav Sharma, and Rahul Rathore. 2015. "Location Based Cluster Head Selection Technique for Under Water Wireless Sensor Network". *International Conference of Advance Research and Innovation*.
* Gola, Kamal Kumar, and Gaurav Bathla. 2013. "Survey on Routing Techniques in WSN". *National Conference on Contemporary Computing*, 102.
* Gola, Kamal Kumar, Gulista Khan, and Hariom Sharan. 2012. "Energy Efficient Routing Strategy for Dynamically Arranged Homogenous WSN". *International Conference Resurging India Myths & Realities*, 391-395.

***BOOK CHAPTERS***

* Kumar, Satish, Kanika Sharma, and Kamal Kumar Gola. 2021. "A Review on Localization Algorithm for Wireless Sensor Networks". *Algorithms for Intelligent Systems*, 23-35. doi: 10.1007/978-981-33-4862-2\_3. **(AIS, Springer)**
* Gola, Kamal Kumar, Gulista Khan, Ashish Joshi, and Rahul Rathore. 2019. "KKG-512: A New Approach for Kryptos Key Generation of Size 512 Bits Using Plaintext". *International Conference on Intelligent Computing and Smart Communication 2019*, 167-181. doi:10.1007/978-981-15-0633-8\_17. **(AIS, Springer)**
* Khan, Gulista, Rakesh Kumar Dwivedi, and Kamal Kumar Gola. 2019. "Comparative Analysis of Routing Algorithms for Underwater Sensor Network". *Pervasive Computing: A Networking Perspective and Future Directions*, 31-46. doi:10.1007/978-981-13-3462-7\_3. **(Springer)**
* Khan, Gulista, Bhumika Gupta, and Kamal Kumar Gola. 2016. "MDS3C: Modified Digital Signature Scheme for Secure Communication". *Proceeding Of International Conference On Intelligent Communication, Control And Devices*, 309-315. doi:10.1007/978-981-10-1708-7\_36. **(AISC, Springer)**
* Khan, Gulista, Kamal Kumar Gola, and Rahul Rathore. 2016. "RE2R—Reliable Energy Efficient Routing For UWSNs". *Proceedings of the International Congress on Information and Communication Technology*, 375-382. doi:10.1007/978-981-10-0755-2\_40. **(Springer)**
* Sharma, Vaibhav, and Kamal Kumar Gola. 2016. "ASCCS: Architecture For Secure Communication Using Cloud Services". *Advances in Intelligent Systems and Computing*, 19-25. doi:10.1007/978-981-10-0451-3\_3. **(AISC, Springer)**
* Gola, Kamal Kumar, Vaibhav Sharma, and Rahul Rathore. 2016. "SKT: A New Approach For Secure Key Transmission Using MGPISXFS". *Advances in Intelligent Systems and Computing*, 589-598. doi:10.1007/978-81-322-2755-7\_61. **(AISC, Springer)**
* Gupta, Bhumika, Kamal Kumar Gola, Ashish Bisht and Shikha Arya. 2021. “A novel approach of product cipher encryption algorithm using circular queues”. *CRC Press*, 317-330. **(Taylor and Francis Group)**
* Rohit, Bhumika Gupta and Kamal Kumar Gola. 2021. “The impact of machine learning on processing big data on high processing computing”. *CRC Press*, 344-353. **(Taylor and Francis Group)**

***Papers In-Progress***

* An Empirical Study on Underwater Acoustic Sensor Networks Based on Localization and Routing Approaches. **(Minor Revisions Received from International Journal of communication System, Wiley, SCIE Indexed)**
* Secure architecture to support IoT based on Fog Computing, **Under Review in IJCNC (Scopus Indexed Journal).**
* Underwater Acoustic Sensor Networks: Taxonomy on Application, Architectures, Localization Methods, Deployment Techniques, Routing Techniques, Threats- A Systematic Review, **ACM Transaction in Sensor Networks, (SCI/SCIE Indexed Journal)**
* Multi-Objective Capuchin Genetic Search Algorithm based Hierarchical Resource Allocation Scheme for Cloud Computing Environment. (**(Minor Revisions Received from Multimedia Tools and Applications, SCI/SCIE Indexed).**
* Comparative Study of Various Pattern Recognition Techniques for Identifying Seismo-Tectonically Susceptible Areas. **Under Review in 17th Symposium on Earthquake Engineering-2022, IIT Roorkee.**
* Underwater Acoustic Sensor Networks (UASNs): Concepts, Applications and Research Challenges. **Under Review in ICDCN-2023, IIT Kharagpur.**

**FACULTY DEVELOPMENT PROGRAM**

* **“Enhancing Teaching Learning Process”** Organized by College of Engineering, Teerthanker Mahaveer University, Moradabad, 18-19 August, 2010.
* **“Project Development Using PHP”** Organized by College of Computing Sciences & IT, Teerthanker Mahaveer University, Moradabad, 15-20 January, 2018.
* **“Network Simulation and Data Security (NADS-2018)”** Organized by College of Computing Sciences & IT, Teerthanker Mahaveer University, Moradabad, 06-10 August, 2018.
* **“Teaching Pedagogy and Research in the Changing Scenario of Higher Education”** Organized by Human Resource Development Centre, Kumaun University at Teerthanker Mahaveer University, Moradabad, 14-21 January, 2019.
* **“Data Analytics Tools for Research”** Organized by NITTTR, Chandigarh, 04-08 November, 2019.
* **“Neural Network and CNN”** Organized by NITTTR, Chandigarh, 9-13 April, 2020.
* **“Latest Wireless and Computing Technologies”** Organized by NITTTR, Chandigarh, 14-18 April, 2020.
* **“Data Sciences”** Organized by IIIT, Nagpur, 18-22 April, 2020.
* **“Machine Learning and Data Analytics using Python”** Organized by Electronics and ICT Academy, IIT, Roorkee, 22-29 April, 2020.
* **“Artificial Intelligence”** Organized by IIIT, Nagpur, 24-28 April, 2020.
* **“Linux Applications in Engineering Education”** Organized by NITTTR, Chandigarh, 27 April-01 May, 2020.
* **“MATLAB Programming”** Organized by NITTTR, Chandigarh, 11-15 May, 2020.
* **“Cyber Security”** Organized by JNU, Delhi, 26-30 May, 2020.
* **“Internet of Things”** Organized by JNU, Delhi, 31 May-04 June, 2020.
* **“Digital Learning with Multidisciplinary Approaches”** Organized by JSS Academy of Technical Education, Noida, 12-17 June, 2020.
* **“Artificial Intelligence”** Organized by NIT, Warangal, 08-12 June, 2020.
* **“Data Sciences”** Organized by College of Technology and Engineering, Udaipur, 22-26 June, 2020.
* **“Machine Learning and Its Application using Python”** Organized by AKG Engineering College, Ghaziabad, 29 June-03 July, 2020.
* **“Blockchain and Its Applications”** Organized by GBPIET, Pauri Garhwal, 20-24 July, 2020.
* **“Deep Learning & Computational Intelligence in Internet Era”** Organized by GBPIET, Pauri Garhwal, 27-31 July, 2020.
* **“Effective Tool and Techniques for Qualitative Research”** Organized by NIT, Jalandhar, 10-14 August, 2020.
* **“Assistive Tools and Technologies for Online Teaching and Learning”** Organized by JIIT, Noida, 27-31 July, 2020.
* **“Internet of Things”,** Organized by IIT, Palakkad, 17-21 October, 2020.
* **“Internet of Things”**, Organized by IIT, Goa, 14-18 November, 2020.
* **“Information Security: Issues and Challenges (ISIC-2020)”** Organized by MNNIT, Allahabad, 17-21, November, 2020.
* **“Sensor Technology”** Organized by School of Ocean Engineering and Underwater Technology, Kerala, 23-27, November, 2020.
* **“Cyber Security”**, Organized by IIIT, Kottayam, 1-5 December, 2020.
* **“Cyber Security”**, Organized by IIT, Bhilai, 7-11 December, 2020.
* **“Blockchain”**, Organized by IIT, Patna, 20-24, December, 2020.
* **“Blockchain”**, Organized by IIT, Ropar, 11-15, January, 2021.
* **“Wireless Communication Technologies”**, Organized by IIITM, Gwalior, 21-25, June, 2021.
* **“Nano-Sensors”**, Organized by IIT, Jodhpur, 5-9, July, 2021.
* **“Introduction to the Mathematical Modelling of Smart Materials and their applications to Sensors and Actuators”**, Organized by IIT, Jammu, 12-16, July, 2021.
* **“Application Areas of Data Analytics”**, Organized by IIIT, Allahabad, 23-27, October, 2021.
* **"Reinforcement Learning and its Applications"**, Organized by IIT, Ropar, 08-11, November, 2021.
* **“Application of Cryptographic Tools for Data and Image Securities"** Organized by IIIT, Kalyani, 06-10, December, 2021.
* **“Modern Trends in Manufacturing Technologies”**, Organized by COER, Roorkee, 11-17, July, 2022.
* **“Green IoT for Sustainable Development”**, Organized by JIIT, Noida. 13-17, June, 2022.
* **“Full Stack Engineering”**, Organized by JIIT, Noida. 04-09, July, 2022.
* **“Blockchain Technology and Its Applications (BTA’22)”,** Organized by JIIT, Noida. 25-30, July, 2022.
* **“5G Wireless Communication”**, Organised by IEEE India Council, 28-30, July, 2022.

**STC/STTP/WORKSHOP**

* ISTE SRM Short Term Training Programme on **“Efficient Object Relation Mapping Concept in Web Technologies”** Organized by Department of Information Technology, College of Technology, Pantnagar University, Pantnagar, 22-27, April, 2013.
* Three Days Workshop on **“Wiki Educator”** organized by wiki educator group.
* Two Days Workshop on **“Ethical Hacking and Cyber Security”** Conducted by Deek Software Solution Pvt. Ltd., 12-13, May, 2013.
* Two Days Workshop on **“Android Application Development”** Organized by ACM -IIT Delhi and ARK Techno solutions at College of Engineering, Teerthanker Mahaveer University, Moradabad, 06-07, December, 2013.
* Two Days Workshop on **“Network Implementation & Security”** Organized by ACM-IIT Delhi and Network Bulls at College of Engineering, Teerthanker Mahaveer University, Moradabad, 28-29, March, 2014.
* One Week Skill Enhancement Program on **“Adobe Photoshop”** Organized by College of Computing Sciences & IT, Teerthanker Mahaveer University, Moradabad, 11-16, January, 2016.
* One Week National Workshop on **“Network Simulator-3 Simulation for Realistic Network Scenario (Sim4Net-2017)”** Sponsored by ACM- Udaipur Chapter and Computer Society of India- Jaipur Chapter, Organized by Amity Institute of Information Technology, Amity University, Rajasthan During 4-8, December, 2017.
* TEQIP Sponsored One Week Workshop on **“Research Methodology”**, Organized by Uttarakhand Technical University, Dehradun, 26-30, December, 2017.
* TEQIP-III Sponsored Short Term Course on **“Network and Cyber Security”**, Organized by Department of Computer Science and Engineering, THDC-IHET, Tehri, 04-08, June, 2018.
* One Week AICTE Recognized Short Term Course on **“Self-Configured Wireless Sensor Network”**, Organized by Electronics and Communication Engineering Department, NITTTR Chandigarh, 30 July-03 August, 2018.
* One week workshop on **“LaTex”**, Organized by MIT College Of Railway Engineering and Research Barshi & Spoken Tutorial Project, IIT Bombay, 14-17, May, 2020.
* One week STTP on **“Data Science & Learning Systems for Engineering Research & Design”**, Organized by NIT Kurukshetra and ECB Bikaner, 24-30, June, 2020.
* One week national instructional workshop on **“Cryptology”**, Organized by JNU, New Delhi in association with CRSI, 22-26, July, 2020.
* One week workshop on **“Natural Language Processing”**, Organized by MIT, MAHE, Manipal, 14-19, December, 2020.
* **Quantum Information and Computation: From Foundations to Applications – 2021 (QFA - 2021)**, Organized by IIT Jodhpur, 18-23, October, 2021.
* **Participated in the 19th ACM Conference on Embedded Networked Sensor Systems (SenSys 2021)** which was held on November 14-17, 2021, in Coimbra, PORTUGAL
* One week online workshop on **“Statistical Techniques for Data Analysis”**, Organized by NIT Jalandhar, 22-26, November, 2021.
* One week STC on **“Internet of Things through ICT”**, Organized by NITTTR, Chandigarh, 28.03.2022 to 01.04.2022, 2022.
* One week STC on **“Outcome Based Education for Program Accreditation”**, Organized by NITTTR, Chandigarh, 09-13 May, 2022.
* **“Ten days Patent Analytics Course”**, Organized by Turnip Innovation, 06-15, June, 2022.

**PATENTS**

* **Patent Number:** 2020104030

**Title:** A system and a method for contactless thermal detection.

**Status:** Grant (Australian Government)

* **Patent Number:** 202111014605 A

**Title:** Two Factor Authentication Based Shopping Method

**Status:** Published (Indian Government)

**PROJECTS**

***UNDERTAKEN***

* Project Name: **Help Me An Android Application**
* Project Name: **Cloud Study Desk**
* Project Name: **Design and Analysis of Secure Authenticated Cryptographic Technique**
* Project Name: **Enhance the Security of Playfair Technique using Rectangular and Substitution Matrix**

***HANDELED***

* **Project name:** Database for GIMIT Institute

**Platform:** VB.NET with MS Access

* **Project name:** Home Loan Banking System

**Platform:** C# with SQL server 2000

* **Project name:** Jewellery Database for Annex Software Technology, Noida

**Platform:** C# with SQL server 2000

**SUMMER TRAINING**

Undergone training at Global Institute of Management and Information Technology (GIMIT), New Delhi from 14 July to 14 August 2007.

**KEY REPONSIBILITY AREA**

***PRESENT***

* Coordinator of NBA Criteria-3
* DRC Convener
* Member of Program Assessment Committee
* Member of NAAC Committee

***PAST***

* Lab Coordinator in Computer Science & Engineering Department
* Member of NBA Criteria-3
* Member of NAAC Criteria-3
* ACS in Exam cell
* ERP Coordinator
* Sports Coordinator
* Publication Chair, SMARTCOM-2020, GBPIET, Pauri Garhwal, India.
* Reviewer, SMART-2020 (IEEE Conference), TMU, Moradabad, India.
* Reviewer, SMART-2019 (IEEE Conference), TMU, Moradabad, India.
* Member National Conference on Emerging Trends in Engineering and Technology on 20th May 2014.
* Member, International Conference on Emerging Trends in Engineering and Technology on 6-7th April 2012.
* Member, Job Fair on 14-15th April 2012.

**AREA OF INTEREST**

* Underwater Acoustic Sensor Networks
* Data Structure Using C
* Design And Analysis of Algorithm
* Cryptography and Network Security
* C Programming
* Artificial Intelligence
* Wireless Sensor Networks
* Mobile Communication
* C++ Programming
* Computer Graphics

**DECLARATION**

I hereby certify that the information furnished above is true to the best of my knowledge and belief.

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**Kamal Kumar Gola**