



*Dr. Vimlesh Kumar Ray*

Electronics and Communication

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## **CAREER OBJECTIVE**

Seeking a technically challenging position in an organization, providing a highly motivated, progressive and friendly environment which allows the pursuit of career advancement and expand my knowledge and skills. And to contribute my qualities for the growth of the organization. To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work. To use my skill and experience and thereby to promote a positive atmosphere and higher quality education among students. Seeking a responsible position to use my abilities and experience effectively and efficiently for students and have acquisition for learning and developing new skills.

## **RESEARCH & TEACHING AREAS**

- Signal and systems
- Control Theory
- Digital Signal Processing
- Digital Electronics
- Electromagnetic Field Theory
- Computer/ Data Networks
- Wireless Communication
- Ad-hoc Wireless networks (MANET, VANET, FANET, CRAHNs etc.)
- Sensor Networks
- Cognitive Radio Networks
- Research Technique in ICT
- Quality of Services in Wireless Networks

## **ACADEMIC QUALIFICATION**

**PhD (Doctor of Philosophy)**, School of Information & Communication Technology, Gautam Buddha University, Greater Noida, Uttar Pradesh India.

**M.Tech. (Master of Technology, Wireless Communication & Networking)**, School of Information & Communication Technology, Gautam Buddha University, Greater Noida, Uttar Pradesh, India.

**B.Tech. (Bachelor of Technology, Electronics & Communication Engineering)**, IASE University, Rajasthan, India.

**Intermediate (10+2)** from G. B. S. S. School ShalimarBagh Delhi, India

**Matriculation (10<sup>th</sup>)** from S. N. S. D. N. G. Boys High School (Watson) Madhubani, Bihar, India.

## **CERTIFICATION, TRAINING, WORKSHOP AND INDUSTRIAL VISIT**

### **Certification**

DB2 certification from IBM.

### **Summer Training**

1. Six weeks training in **All India Radio and Doordarshan ,Delhi**

### **Workshop**

1. Workshop on **DB2** organized by **IBM** at Gautam Buddha University, Greater Noida.
2. Workshop on QualNet organized by Scalable Network Technology at Gautam Buddha University, Greater Noida.
3. Workshop on Impact of Information Technology on Indian Society at Gautam Buddha University, Greater Noida.
4. Workshop on Regulation of Broadcasting Sector in India at Gautam Buddha University, Greater Noida.
5. Workshop on Wireless communication at Gautam Buddha University Greater Noida.

### **Industrial Visit**

1. All India Radio and Doordarshan, Delhi
2. LG Electronics, Greater Noida
3. MTNL, Delhi
4. ST Microelectronics, Greater Noida

## **COMPUTER SKILLS**

MS Office    C    Core JAVA    MATLAB    NS-2    QualNet    Open Source Software  
(Ubuntu, Linux, Fedora, CentOS, JBOSS)

## **ADMINISTRATIVE RESPONSIBILITIES**

### **University Level:**

1. Associate Warden of Sant Ravidas Hostel
2. Techno-cultural coordinator
3. Observer for University Entrance Examination.
4. Duties assigned by office order in Abhivyanjna and Shauryotsay.
5. Coordinator National Eco kart 2018.

### **School Level:**

1. Placement Coordinator, SoICT
2. Professor in-charge: Electronics Workshop Laboratory
3. Panel Evaluation for Integrated B.Tech. + M.Tech./MBA Sem, VIII Minor Project.
4. Panel Evaluation for M.Tech. Major Project.
5. Internal and Panel Evaluation for M.Tech. Dissertation Part-I.

6. Internal and Panel Evaluation for M.Tech. Dissertation Part-2.
7. In the panel for Summer Semester evaluation of ECE and CSE students after Sem – VIII.
8. Preparation and evaluation of back paper and special back paper exam.
9. B. Tech 3<sup>rd</sup> year Faculty Coordinator,
10. Guest Faculty Coordinator ECE, 3<sup>rd</sup> Sem
11. Minor/ Major Project Co-coordinator ECE
12. Library coordinator at SoICT

### **RESEARCH SUPERVISED**

<b>Degree</b>	<b>Research Component</b>	<b>Completed</b>
M.Tech.	Dissertation Part - I & II	51
M.Tech.	Major Project	56 students on 15 different topics
Dual Degree	Minor Project	38 students in 10 different topics
Dual Degree	Seminar	38 students in 10 different topics

### **RESEARCH PUBLICATIONS**

#### ***Papers Presented in international conferences/ Journals***

- ❖ Vimlesh Kumar, Anurag Singh Baghel “Application aware scheduling on WLAN”, International Journal of Control theory and applications, vol. 10, No. 32, June 2017
- ❖ Vimlesh Kumar, Anurag Singh Baghel “A survey on routing protocol unmanned aerial vehicle Networks” International Journal of computer science and information security vol.15, No.4 April 2017.
- ❖ R. Agarwal, Vimlesh Kumar “Temporal effects in collaborative filtering for recommendation systems” in Communication and Computing Systems, Taylor & Francis Group, London, ISBN 978-1-138-02952-1, 2017
- ❖ Suchita Singh, Vimlesh Kumar “Securing patient’s confidential data in ECG steganography using advanced encryption standards” in Communication and Computing Systems Taylor & Francis Group, London, ISBN 978-1-138-02952-1, 2017
- ❖ Ujjwal Gupta, Vimlesh Kumar, Sandeep Sharma “Improving medical image classification model using data mining technique” in Communication and Computing Systems Taylor & Francis Group, London, ISBN 978-1-138-02952-1, 2017
- ❖ Pankaj Sharma, Vimlesh Kumar “IOT based weather monitoring system using Arduino Uno Board” in Communication and Computing Systems Taylor & Francis Group, London, ISBN 978-1-138-02952-1, 2017

- ❖ Vimlesh kumar, Anurag Singh Baghel (2016), “Comparisons between AODV and LSGR Protocol in VANET”, in IEEE Explore.
- ❖ Vimlesh Kumar Anurag Singh Baghel and Priyank Mishra (2016), “Performance Evaluation of AODV, DSDV and LSGR Protocol in Ad-Hoc Networks”, in IEEE Explore
- ❖ Priyank Mishra, Vimlesh Kumar (2016), “A survey on Routing Protocol for dynamic activity of primary users”, in IEEE Explore.
- ❖ Anand, Vimlesh Kumar (2016), Optimization of routing in delay tolerant networks”, International Conference Electrical, Electronics and Optimization Technique.
- ❖ Archie Goel, Vimlesh Kumar “A Survey on MANET Attacks and Prevention Schemes”. International Journal of Advance Research in Computer and Communication Engineering, Vol. 5, Issue 4, April 2016
- ❖ Sushant Kumar Chaudhary, Vimlesh Kumar “Review on Energy Efficient Routing Protocol in MANET” International Journal of Advance Research in Computer and Communication Engineering, Vol. 5, Issue 4, April 2016
- ❖ Sukrati Dixit, Vimlesh Kumar “A Review on Routing and Scheduling Algorithm in Wireless Sensor Network” International Journal of Advance Research in Computer and Communication Engineering, Vol. 5, Issue 3, March 2016
- ❖ Pallavi Purvar, Vimlesh Kumar “Delay and Delay Variation for Multimedia Traffic in WLAN 802.11: a case study of network simulator” in International Journal of Engineering Research and Technology, volume-4, issue:5, May -2015
- ❖ Liji Merin, Vimlesh Kumar “Performance Analysis of DSR, LAR and STAR of MANETs for CBR Traffic” in International journal of Advanced research in Electrical, Electronics and Instrumentation Engineering, May-2015
- ❖ Abhishek Narayan Shukla, Vimlesh Kumar “Provenance and Input Weightage in a Workflow in International Journal of Advanced Computer Technology, volume-3, issue:4, April 2014
- ❖ Dharam Kirti Gautam, Vimlesh Kumar, “Advanced step in humanoid robot’s simulation” in International Journal of Engineering Research and Technology, volume-3, issue:3, March ,2014
- ❖ Vimlesh Kumar, Ela kumar, “Brain Informatics based on denotational mathematics”, In International conference on Innovations and Advancements in Information and Communication Technology (ICIAICT) in GBU, Greater Noida, 30-31 March 2012
- ❖ Ashish Gadekar, P. K. Gupta, Vimlesh Kumar “Study of Challenges in Adopting Green Marketing Practices in For SMES” International Conference (EPPICTM) Vol.5, no.1, 2012, pp.168-173
- ❖ Vimlesh Kumar, Anurag Singh Baghel “Reduction in path failures by adopting multi-channel multi path in routing for dynamic activity of primary users” communicated in journal of computer and system science.
- ❖ Vimlesh Kumar, Anurag Singh Baghel “BS cooperation improves downlink performance for multi cellular network” communicated in journal of computer and system science

## **SHORT TERM COURSES ATTENDED**

**Short Terms Courses Attended:**

- ❖ One Week Short Term training programme on “Application of Techniques/Tools in Engineering”, Gautam Buddha University, Greater Noida, 9th -14th October, 2017.
- ❖ Fifteen days’ workshop on “Swachhta Pakhwada” from 1<sup>st</sup> to 15<sup>th</sup> Sept 2017, organized by NSS & DSA office GBU under the direction of MHRD & UGC.
- ❖ One-week short term training program on “Research Techniques in Information and Communication Technology STTP-RTICT” Gautam Buddha University, Greater Noida, 30th January- 4th February, 2017.
- ❖ 03 Day's Faculty Development Program on “Networking Simulation and related Technologies" (3-5 October 2016)
- ❖ One-week short term course on “Research Technique in ICT” (30 January -4 February 2017) In Collaboration with Computer Society of India (NOIDA Chapter) & IEEE.
- ❖ One Week Faculty Development Programme on “Re-cent Trends of Soft Computing Techniques in Software Engineering and Applications” (19-24 December 2016)
- ❖ One-week short term course on “Artificial Intelligence in Engineering Applications” Netaji Subhash Institute of Technology, Delhi, 26th – 30th December, 2016.
- ❖ One-week faculty development programme on “Recent Trends of Soft Computing Techniques in Software Engineering and Applications” FDP-SCTSEA, Gautam Buddha University, Greater Noida, from 19th -24th December, 2016.
- ❖ TEQIP Sponsored one-week faculty development programme on “Optimization Techniques using Nature Inspired Algorithms for Engineering Applications, 19-23 January, 2015 at Rajasthan Technical University Kota Rajasthan.
- ❖ TEQIP-II Sponsored one-week Faculty Development Programme on “Nature Inspired Algorithms and Their Applications (NIATA-2015), DTU, July 13-17, 2015.
- ❖ International Workshop for Cloud Computing & its Applications (IWCCA), GBU, G. Noida, 17<sup>th</sup> Feb. 2013.
- ❖ Three days’ workshop on, “High Vacuum, Plasma & Thin film Deposition for IC Technology” in Technical Association with Technology Application Service, GBU. G. Noida, 7<sup>th</sup> -9<sup>th</sup> February, 2013.
- ❖ Two week ISTE workshop on “signals and systems” conducted by IIT Kharagpur from 2-12 January, 2014
- ❖ Vimlesh Kumar, Ela Kumar, “Brain Informatics based on denotational mathematics”, In International conference on Innovations and Advancements in Information and Communication Technology (ICIAICT) in GBU, Greater Noida, 30-31 March 2012
- ❖ Two week QIP course on “creativity and innovation” from 4 -18 December 2012 at IIT Delhi.
- ❖ Workshop on IBM DB2 at GBU, 19-23 May, 2010
- ❖ Workshop on Wireless Communication on 20 April, 2011

### **SHORT TERM COURSES ORGANIZED**

- ❖ One-week short term training program on “Research Techniques in Information and Communication Technology STTP-RTICT” Gautam Buddha University, Greater Noida, 30<sup>th</sup> January- 4<sup>th</sup> February, 2017
- ❖ 3 days entrepreneurship awareness camp at G.B.U

- ❖ Member of organizing committee in one-week faculty development programme on “Recent Trends of Soft Computing Techniques in Software Engineering Applications”, FDP-SCTSEA, 2016.
- ❖ Track Co-coordinator in wireless communication and networks in “International Conference on Innovations and Advancements in Information and Communication Technology-ICIAICT”, 30<sup>th</sup>- 31<sup>st</sup> March 2012.
- ❖ Member of reception and registration committee in 1st international conference on “Innovations and Advancements in Information and Communication Technology-ICIAICT”, 30<sup>th</sup>- 31<sup>st</sup> March 2012
- ❖ Organizing member of one week FDP on “Recent Advancements in Software Engineering and Networking Technologies”, June 11 – 15, 2012
- ❖ Organizing member of one week FDP on “Simulation and data analysis”, July 09 – 14, 2012.
- ❖ A workshop on Impact of IT on Indian Society, 22 March 2011 at G.B.U.

### **INVITED SPEAKER/ LECTURES/ EXPERT TALKS**

Delivered many expert talk (invited speaker) on cutting edge technology in different reputed institution/ college/ university.

### **ACHIEVEMENTS**

- ❖ IBM Certified Database Associate (DB2)
- ❖ Got first position in eco model competition in G.B.U.
- ❖ Panel Expert (Question Paper Setter) of “The Institute of Engineers” Kolkata, India
- ❖ Jury member of National Eco-cart competition organized at G.B.U.
- ❖ Winner of National children science congress at district level at Madhubani, Bihar
- ❖ Selected at state level National children science congress for science project at Bokaro Steel Plant, Bokaro, Jharkhand
- ❖ National winner (received Gold medal) of National Children Science Congress for innovative project as a child scientist at Anna University Chennai and was being awarded by former president and Prime minister Dr. A.P.J. Abdul Kalam and Sh. Atal Bihari Vajpayee.
- ❖ Being awarded by Bihar Association Chennai for selection in national children science congress at Bihar Association Chennai.
- ❖ Successfully participated and presented my project in Indian Science Congress at Anna University Chennai.
- ❖ Being awarded by science for Society Patna Bihar for innovative project.
- ❖ Got first position in Hindustan Times-Pace and Save the Children UK debate competition at Siri- fort auditorium, Delhi.

I hereby declare that the above information is true and best of my knowledge.

**Dr. Vimlesh Kumar Ray**