Professional Qualifications:
- PhD (pursuing)from Banasthali Vidyapith, Banasthali
- M.Tech(CS), IETE, New Delhi
- M.Phil(CS), Alagappa University
- M.C.A , Guru Nanak Dev University , Amritsar(Punjab)

Teaching Experience (in Years): 17 Years

Subjects of interest: Digital Image Processing, Data Structures, Design and Analysis of Algorithms, Computer Graphics, Computer Architecture & Organization, Pattern Recognition, Soft Computing

Academic achievements:

UGC-NET(CS) Qualified

International Journals (3)
- **Kumud Arora**, P.V.Vishwakarma, Poonam Garg "Face Recognition using Two Dimension Fractional Discrete Cosine Domain and BPNN", *International Journal of Computer Applications,* Volume 113 – Number-10,2015. DOI:10.5120/19865-1842
- **Kumud Arora**, P.V. Vishwakarma, Poonam Garg, "Radial Basis Function Neural Network Trained with Variant Spread Learning for face recognition" , International Journal of Engineering Research & Technology, Vol. 3 - Issue 9 , 2014. **e-ISSN:** 2278-0181
- **Kumud Arora**,Poonam Garg, "A Quantative Survey of various Fingerprint Enhancement techniques **",** *International Journal of Computer Applications (0975 –8887) Volume 28– No.5, August 2011.* DOI:10.5120/3383-4691

2. International Conferences(12)

1. **Kumud Arora**, P.V. Vishwakarma, Poonam Garg, "Fractional Discrete Cosine Transformation based Reduced set of coefficients for face recognition", IEEE Xplore proceedings of RAECS'2015, Punjab University. DOI: 10.1109/RAECS.2015.7453379
2. **Kumud Arora**, Poonam Garg , "Quality Assesment based fingerprint segmentation ", in Second International Conference on Advances in Computing and Information Technology (ACITY 2012),July 2012. Included in the proceedings published by Springer in Advances in Intelligent and Soft Computing book Series. DOI: 10.1007/978-3-642-31552-7-58
3. **Kumud Arora**, Poonam Garg, "An approach for mitigating the risks involved in implementation of Aadhaar" in 16th International Research Conference at Dubai(UAE) on 14th Aril'2012, sponsored by World Business Institute and WBI London.
4. **Kumud Arora**, Poonam Garg, "Fingerprint Classification and singularities detection through Ant Colony Optimization", in 3rd International Conference on Data Management at IMT Ghaziabad on Mar 11-12 '2010.
5. **Kumud Arora**, "An Open Software Approach: Fuelling the E-Learning Drive" in Proc. Of International Conference on International Trends in Communication and Information Technology organized at PCTE, Ludhiana during 31st March'2007.
6. Sunil K. Pandey, D. Bagchi , **Kumud Arora** "IT Industry in India: Maintaining a Sustainable

Growth" in Proc. of the "International conference on Brand India: Issues, Challenges, and Opportunities" held on 29-30 April 2006, LIM, Jalandhar.

7. D. Bagchi, **Kumud Arora**, Sunil K, Pandey,"Biometrics and Bluetooth: A Proposed Framework for Authentication & Authorization" in Proc. of International Conference on Computer Networks & Wireless Technology organized by VEC along with IEEE Chennai Chapter at Chennai during 28th -31st of Dec, 2005.

8. Sunil K Pandey, **Kumud Arora** , D. Bagchi, "Safeguarding Intellectual Property using Robust Digital Watermarking" in Proc. of International conference On "The Business Transactions- The Road ahead" organized by Inmantec, Ghaziabad in collaboration with UPTU, Lucknow, PHD chamber of Comm. & Industry, KA Foundation (Germany) on 21-23 Nov. 2005.

9. Sunil K Pandey, D. Bagchi ,**Kumud Arora**,"Information and Communication Technology: A Catalyst for Future Roadmap of India" in proc. of International Conference on Information and Communication Technology" being organized by Computer Society Of India, hosted by CSI, Hyderabad Chapter at Hyderabad during 09th – 12th Nov., 2005.

10. Sunil K Pandey, **Kumud Arora**, D.Bagchi "Analysis of Data Mining Algorithms" in Proc. of "International Conference on Current Trends in IT" organized by SRKR Engineering College, Bhimawaram, AP organized on 01 – 03 Oct., 2005.

11. **Kumud Arora**,"Biometric Security" in proc. of "ICCII - 2004" organized by PCTE, Ludhiana at Ludhiana on 27th November, 2004.

Faculty Development Program/STTP/workshop Organized:
➢ Coordinated organization of webinars for IPEC Faculty members (2012-13).
➢ Conducted Corporate training sessions for "**Awas Vikas Parishad , Ghaziabad"**employees (2002).
➢ Organized and coordinated number of workshops and training programs on different technologies for Employees of ITS Group of Institutions and for students of Post Graduate Courses (2003-05)

Faculty Development Program/QIP /workshop attended:

➢ Attended one week short term course on "Advances in Soft Computing Techniques for solving Engineering Problems" at NSIT, New Delhi(2017)
➢ Attended six days FDP on "**Mathematical concepts in Image Processing and Computer vision"** organized at JIIT,Noida(2017)
➢ Attended six days FDP on "**Cryptography & Algebric Coding theory**" organized at IPEC (2017)
➢ Attended three days workshop on "**Intelligent Computing**" organized at Jaypee University (2016)
➢ Attended six days **FDP on "Advanced MATLAB Programming and Simulink"** organized by ORANE Labs, IIT KANPUR (2011)
➢ Attended two days **Workshop on "Natural Language Processing"** conducted by MTU , Noida(2011)
➢ Attended six days **FDP on "Pattern Recognition and Soft Computing "** conducted by Delhi Technical University ,New Delhi (2010)
➢ Attended **Workshop on "Wavelets and its applications in Signal Processing "** conducted by Jaypee University (2010)

- ➢ Attended one day **workshop on LINUX and free source software** conducted by Indian Linux user group and CSI gzb. Chapter (2008)
- ➢ Attended a **QIP programme** on "Object Oriented Methods and Implementation with C++ and Java" conducted by BEC, Howrah and sponsored by AICTE (2001)
- ➢ Attended Worskhops on "**Dot Net Environment**" organized by Microsoft corp. at IME , Ghaziabad & **"GSM/GPRS** " organized by CSI , Ghaziabad Chapter (2002)

Awards Received:

Awarded First Prize (Cash prize along with Trophy) in Technical Paper Presentation Session at 09th National Conference on "Smarter Approaches in Computing Technologies & Applications (SACTA-2014)" organized by the Department of IT at ITS, Mohan Nagar, Ghaziabad in association with CSI-Ghaziabad Chapter, CSI-Region I, CSI-Division I and International Journal of Computer Applications (IJCA), USA on 19th April, 2014.

Supervisory support provided:
1. No. of M Tech Thesis Guided: 1

Membership of professional Societies:
- Life member of IETE, New Delhi, Membership No. LM237448.
- Member of IEEE, Membership no. 92580370.