

## **Professional Qualifications:**

- **Ph. D.**(Computer Science), Birla Institute of Technology, Ranchi, March 2013
- M. Tech from Allahabad Agriculture University, Allahabad (Information Technology).First Division – July 2006.
- B Tech (Electronics & Telecommunication) from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, First Division (Distinction) –July 1997.
- Diploma in Computer Programming (OOPS) with A Grade – 1997.
- Certificate Course in Java Programming, STG Intl Ltd , 2000.
- XIIth (Science) PCM + Biology, CBSE New Delhi, 72%, 1993.
- X th, CBSE, New Delhi, 82%, 1991.

**Teaching Experience (in Years): 14 Years (Academic)**

**Industrial Experience (in Years) : 5 years**

### **Subjects of interest:**

1. Digital Logic Design
2. Digital Image Processing
3. Artificial Intelligence
4. Data Mining
5. Big Data
6. Programming In C
7. Principles of Programming Languages
8. Multimedia and Communication and Systems
9. Information Security and Cyber Laws
10. Basic Electronics
11. Microprocessor and its Application
12. Software Engineering and Project Management
13. Relational Database Management
14. Computer Organization

## Academic achievements:

<b>Citation indices</b>	All	Since 2011
Citations	44	39
h-index	5	4
i10-index	1	1

## List of Publications in Conferences/Seminars/Journals

### 2015-16

Pooja Tripathi (2015), “Strengthen Cloud Computing Security with Enhanced Two Factor Authentication and Encryption” International Journal of Innovations & Advancement in Computer Science IJIACS ISSN 2347 – 8616 Volume 4, Special Issue May 2015

1. Pooja Tripathi et. al. (2016),”Big Data Lakes Can Support Better Population Health for Rural India - Swastha Bharat” , in International Conference on Innovation and Challenges in Cyber Security at Amity
2. Pooja Tripathi et. al. (2016), “An emerging trend of Big Data Analytics with Health Insurance in India”, in International Conference on Innovation and Challenges in Cyber Security
3. Pooja Tripathi et.al. (2016), “Review Of Job Recommender System Using Big Data Analytics” in Proceedings of the 10th INDIACom; INDIACom-20163rd 2016 International Conference on “Computing for Sustainable Global Development”, 16th – 18th March, 2016
4. Tripathi Pooja, et.al. (2016), “Cloud-Sensor Network Integration: Review”, Research & Reviews: A Journal of Embedded System & Applications ISSN: 2395-6712(online), ISSN: 2321–8533(print) Volume 4, Issue 1 [www.stmjournals.com](http://www.stmjournals.com)

### 2014-15

1. **Pooja Tripathi, (2014), “An Efficient model for the Prediction of student performance through Correlation and Regression Analysis Technique” , *10<sup>th</sup> National Conference on Emerging Paradigms of Information & Communication Technologies & its Impact on Society (EPICTIS-2014)* being organized by Department of IT, I.T.S., Mohan Nagar Ghaziabad, sponsored by Nvidia as Platinum Sponsor, in association with **Computer Society of India (CSI) – Ghaziabad Chapter, CSI Division-I & III, CSI-Region-I** and technically co-sponsored by **International Journal of Computer Applications (IJCA), NY (USA), International Journal of Scientific and Engineering Research (IJSER) , Houston Texas (USA), International Journal of Computer Science Issues (IJCSI), Mauritius** on Saturday, **08<sup>th</sup> Nov, 2014 (Day-2)** at *I.T.S, Mohan Nagar, Ghaziabad.***
2. Pooja Tripathi et. al, (2014) “Cloud Security and Algorithms: A Review” in International Journal of Enhanced Research in Science Technology & Engineering, ISSN: 2319-7463 Vol. 3 Issue 10, Oct.-2014, pp: (113-117), Impact Factor: 1.252, Available online at: [www.erpublications.com](http://www.erpublications.com)

3. Pooja Tripathi, "Secure Data Access with Enhanced Two Factor Authentication in Cloud Computing" International Journal of Advanced Research in Computer Science and Software Engineering 4(11), November - 2014, pp. 703-707
4. Pooja Tripathi, (2014), "**Competence Based Management in Academics through Data Mining Approach**" has accepted for presentation as well as publication in one of the International journal hosted by IISTE, USA as mentioned on conference website.

### **2013-14**

1. Tripathi,P, et. al, (2013), "Assessing the Soft Computing Approach for problem solving in the multi criteria Decision Making for Performance Assessment in Indian Institutions through case study approach"Proceedings of the Thi rd International Conference on Soft Computing for Problem Solving SocProS 2013, Volume 2 Series: Advances in Intelligent Systems and Computing, **Springer Publication** Vol. 259 Pant, M.; Deep, K.; Nagar, A.; Bansal, J.C. (Eds.) 2014, 750 p. 306 illustrated
2. Tripathi,P, et. al, (2013), "Developing decision making system for Institutional Competence Management through ES Approach" **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 (Saturday).
3. Tripathi,P, et. al, (2013), "**Multimode Network Based Scalable Learning of Collective Behavior (Paper ID: IJARCSSE-2186)**" has been accepted for online publication in the Volume3 Issue 1 of "**International Journal of Advanced Research in Computer Science and Electronics Engineering**"(ISSN: 2277 – 9043).
4. Tripathi,P, et. al, (2014)," Mobile based learning and design" in **International Journal of Computer & Mathematical Science** , IJCMS, ISSN 2347-8527, Volume 2 , Issue 2 February 2014
5. Tripathi,P, et. al, (2014)," Decision Making in Multi-Criteria System" in International Journal of **Innovations and Advancement in Computer Science(Accepted)**

### **2012-13**

1. Pooja Tripathi , Ranjan Jayanthi, "Human Resource Management using AI Approach: An experimental study using Expert System" .Published in the International **Journal of Computer Applications** published in New York., US.
2. Pooja Tripathi, Dr K Singh, "Moving Forward through Teacher Entrepreneurial Education: An Agenda for change in Indian Perspective" at AIMA National Conference
3. Pooja Tripathi, "Factors effecting the adoption of the innovative pedagogical practices using Technology: Indian university Perspective". at National Conference organized by ECI in November 29<sup>th</sup> 2012.

4. Pooja Tripathi, Dr Jayanthi Ranjan, “Developing Multi attribute Decision Making model for Institutional Competence Management” at International conference on Facets of Business excellence 2012 at Indian Habitat Center , New Delhi.

## **2011- 2012**

1. Pooja Tripathi , Ranjan Jayanthi, “Data flow for competence management and performance assessment systems: educational institution approach”, International Journal Of Innovation and Learning .**InderScience publications** .
2. Pooja Tripathi, Ranjan Jayanthi, “A Knowledge Engineering Approach for the Intelligent System for the Competence Management: Indian Institutional Perspective”, in WSKS 2011.(Proceedings to be published by Springer ). **SPRINGER** CCIS 278 volume Lytras et all editors Volume Title Information Systems, E-learning and Knowledge Management Research for the Knowledge Society: The era of Social Networks, Web 2.0 and Open Source Paradigms
3. Pooja Tripathi, “Tele medicine Technology: Next Generation Revolution to Health Care” in the Second Disputations on Future Technologies for Health Care organized at IIT Allahabad in September 2011.
4. Pooja Tripathi, Jhilmil Mathur ,(2011) in International Conference, AMOS 2011, IIT Roorkee. (M Tech Student Paper)
5. Pooja Tripathi, Jayanthi Ranjan, Tarun Pandeya,(2011). “A Transformational model for the Sustainable development in Higher Education system through Competence Based Management” in e LEARNING 2011. Proceegings volume is: **SPRINGER** CCIS 279 Volume Lytras et all editors.
6. Paper accepted for the E- learning Journal Retrieved from [www.elearningap.com/eLAP2011/Proceedings/paper26.pdf](http://www.elearningap.com/eLAP2011/Proceedings/paper26.pdf)

## **2010-2011**

1. Pooja Tripathi, Jayanthi Ranjan, Tarun Pandeya. ‘PAKS: A Competency based model for an Academic Institutions’, International Journal of Innovation, Management and Technology, Vol. 1, No. 2, June 2010, ISSN: 2010-0248, <http://www.ijimt.org/papers/40-M425.pdf>  
<http://www.ijimt.org/vol1no2.html>
2. Pooja Tripathi, Jayanthi Ranjan, Tarun Pandya , Philip Tsang. (2010) ‘ A Competency Based Management System for Academics using PAKS based model expert system’, Book Chapter on ‘ Hybrid Learning-Broadening Horizons’, Edited by Prof Philip Tsang, Caritas Francis HSU college, **Beijing Normal University, Taiwan** pp 1-13. (book chapter).
3. Pooja Tripathi Jayanthi Ranjan.(2011) A holistic framework for the assessment of faculty Int. J. Business Information Systems, **InderScience Publishers**, Vol. 7, No. 2, 2011.

4. Tripathi Pooja, Ranjan Jayanthi , “Developing Computational Intelligence method for Competence Assessment through Expert System: An Institutional Development Approach.” in the Proceedings of the IEEE Conference on Computational Intelligence and Computing Research. **IEEE Catalog Number: CFP1020J-ART ISBN: 978-1-4244-5967.**
5. Tripathi Pooja, Dr R.k Suri , “Competence model for the Faculty in Higher Education in Knowledge Era: Empirical Investigation” in International Journal of Innovation and Technology Management. <http://www.ijimt.org/vol1no4.html>.
6. Pooja Tripathi et.al “An efficient energy management in educational institution through VOIP – Internet Telephony” in the Proceedings of the National conference on Efficient Energy Management in rural and urban Sector organized by CDT Foundations at New Delhi in April 2011.
7. Pooja Tripathi, Dr K Singh, “Competence Based Management: An Effective tool for the Quality in Higher Education.” In National Conference on Globalizing India: Role of Indian B- School”, on 12<sup>th</sup> & 13<sup>th</sup> January 2011 at India International Centre, New Delhi published in e journal of the AIMA.
8. Pooja Tripathi, “Green ICT: A Next Generation Entrepreneurial Revolution”, at 2<sup>nd</sup> National Conference on Innovation and Entrepreneurship in Information and Communication and Technology.
9. Pooja Tripathi, “Development of Competence based management and Performance Assessment System for Academic Management: Empirical Investigation”

## **2009-2010**

1. Ranjan Jayanthi, Tripathi Pooja, International Journal of Computer Communication and Technology , **InderScience Publisher**
2. Tripathi Pooja, Ranjan Jayanthi The 2009 International Conference on Human Resource development (2009 IHRD) date: October 21-22, 2009 Location : Taipei, Taiwan; Special issue in the Publication of the Graduate Institute of International Human Resource Development **National Taiwan Normal University 162, Section 1, Ho-Ping E. Rd., Taipei, Taiwan, ROC; ISSN: 2072-926X.**
3. Tripathi Pooja, Ranjan Jayanthi, “Expert System at its application in competence management and performance assessment: Institutional Approach”, Confluence 2010, IT Summit at Amity University, Noida, January 2010.
4. Tripathi Pooja, “An Intelligent System for the evaluation of the Teaching learning Process: Decision Tree Approach”, in National Conclave 2010 at BIT, Noida.
5. Tripathi Pooja, Samiksha, Journal of United Institute of Research and Management with ISSN.
6. Tripathi Pooja, Ranjan Jayanthi, ”Competence management in educational systems: practices: issues and challenges”. Edited book titled : business and development dynamics issues in India. Vol 1. ISBN 978-81-314-2107-9.



## **2008-2009**

7. Tripathi Pooja, Ranjan Jayanthi, “Bridging the gap between academia and the industry competence based management approach” in Proceedings of International Conference on Quality Enhancement in educational Communication at Tiruchirapalli.
8. Ranjan Jayanthi, Tripathi Pooja ‘Measuring Competencies using Expert System: Institutional Perspective’, Journal of Applied theoretical and information technology, No1, Vol 1, 2008.
9. Ranjan Jayanthi, Tripathi Pooja “Competence Management in Academics: Data Mining Approach”, presented at International Conference on Innovation in Redefining Business Horizon (IIRB 2008) jointly organized in association with Association of Indian Management Schools(AIMS), India, University of New Castle Australia, and Euromed Marseille Ecole de Management Domaine France, at IMT Campus, Ghaziabad during 18-19 December, 2008.
10. Ranjan Jayanthi, Tripathi Pooja. Proceedings of International Conference on Digital Factory ICDF2008, Coimbatore. August 11-13.2008.
11. Jayanthi Ranjan and Pooja Tripathi. IT Supported Organizational Competence Measurement Tools: Working Systems and Research Literature. Proceedings of International Conference on Data Management ICDM 2008, 25-26 February 2008, Macmillan India, Publishers. pp 1267-1275.

## **2007-08**

12. Jayanthi Ranjan. Pooja Tripathi. Decision Support System for Competence Management: An Intelligent Agent Approach. Proceedings of ICISTM-2007 Allied Publishers Pvt Ltd., pp. 207-214.
13. Ranjan Jayanthi, Tripathi Pooja Customer Centered Approach for Competency Development in Education Institutions: Bridging the gap between academia and industry. National Conference on Emerging Technologies & Trends in IT 2007 (NCET-2007) organized by ITS, Ghaziabad, at Indian Habitat Centre, New Delhi on 6th and 7th April 2007. Paper was selected for oral presentation
14. Ranjan Jayanthi, Tripathi Pooja ‘Role of Expert systems in Competency management’, National conference on Information Technology, NCIT, Asia Pacific Institute of Management. 31 August-September 1, 2007.

### **Faculty Development Program/STTP/workshop Attended:**

-  Workshop on “Recent advances in Research Methods and Data Analytical Tools” organized by AIMA, Delhi.2009
-  Summer School on Expert System and its Application organized by IIIT Allahabad 2009

- ✚ Workshop on Intellectual Property Rights organized by IPEC jointly by Waterfall Institute, New Delhi.2009
- ✚ Workshop on Learning Management System for managing the teaching process organized by CDAC Noida., 2009
- ✚ Workshop on Free and Open Source Software in Engineering Curricula organized by CDAC Noida, 2009
- ✚ Faculty development program for “High Impact Teaching Skill” organized by WIPRO Technologies and Dale Carnegie Training in 2010.
- ✚ 5 day Workshop on Teaching and Learning Process organized under Mission 10X by Wipro, in July 2010
- ✚ Workshop on Stastica DataMiner (SDM) at IMT, Ghaziabad.2010
- ✚ Indo US Workshop on Effective Teaching and Learning at University Level organized at IIIT Delhi, Feb , 2011.
- ✚ Workshop On Speech Recognition at CDAC , Noida, in March 2011.
- ✚ 2 day Workshop on Advance level of Teaching and Learning Process under Mission 10X by Wipro, Feb 2011.
- ✚ Delhi Technology Forum for the Cloud Computing Platform on December 2011 at Siri Fort , New Delhi
- ✚ National Conference on Engineering Profession organized by ECI in Nov 2011,New Delhi
- ✚ Faculty Development Workshop on Matlab Programming in January 2012, at IPEC, Ghaziabad.
- ✚ Two Months Summer Faculty Fellow Research Program in May – July 2012 at IIT, New Delhi.
- ✚ Faculty Development Program on Scilab and Python Essentials in October 2012, at MTU Noida.
- ✚ FDP on Exploring the Industry Interaction organized by MTU in association with NASSCOM , at ITS , Ghzbd in June 2013
- ✚ Faculty Enablement Program for Soft Skill enhancement in Engineering graduates , at IPEC, Ghzd, Sep, 2013 by Infosys
- ✚ Exploratory Workshop on the Development of Academic Leaders , at IPEC, Gzbd , Dec, 2013
- ✚ 5 Days Faculty Development Program on Microsoft .Net in May2014 at IPEC
- ✚ 1 day Principal meet for the Lab set up Initiative for E yantra Project sponsored by MHRD in May 2014 at MGM , Noida
- ✚ Two Week ISTE Main Workshop on Computer Programming conducted by IITBomaby under NEICT in July 2014.
- ✚ 2 day workshop on “Introduction to Robotics” conducted on 4<sup>th</sup> – 5<sup>th</sup> August 2014 at MGM, Noida .

- ✚ 6 Days International workshop on “Data Analytics and Text Analytics” conducted by South Asian University , UPTU on 8<sup>th</sup> Dec- 13<sup>th</sup> Dec 2014
- ✚ One day workshop on “Adding Sustainability to Engineering Courses” on January 12, 2015 at TERI University
- ✚ One Day Faculty development program on ICT Trends and Skill Development on 10h April 2015
- ✚ Virtual Course on Data Lakes for Big Data, May –June 2015

## **Conferences/ Trainings Organized**

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- ✚ National Seminar on Cyber Security and Threats at IPEC, Ghaziabad, 2007.
- ✚ Workshop on LINUX sponsored by CSI Chapter, Ghaziabad at IPEC, Ghaziabad., 2008
- ✚ National Workshop on Non Conventional Energy Resources at IPEC, Ghaziabad., 2009
- ✚ Faculty Coordinator for the Entrepreneurship Awareness Camp held at IPEC, Ghaziabad. In 2009
- ✚ 10 days Summer Training for The ASP. Net Development tool., in 2010.
- ✚ Workshop on Next Generation Information Management at IPEC in 2011.
- ✚ Hands on Training on the Development of the VOIP System through asterisk based solutions, 2011
- ✚ Training program on Labview programming for Machine Vision Applications , 2011
- ✚ Training Program on Mobile Applications in association with AEM , Noida, Feb 2012
- ✚ Workshop for the Students on Mobile Hacking, Cyber Hacking on 15<sup>th</sup> September 2012 at IPEC, Gzbd.
- ✚ Training program on Mobile Computing applications using Android operating systems. At IPEC Gzbd , on Nov 2012.
- ✚ Faculty Development Program on “Free Open source Software in Academics: SCILAB”, May 2013
- ✚ Five Day Skill development Program on “Ms IT Tools and MS Project”, in April 2014
- ✚ One Day Skill development Program on “Php Programming” by TAI Infotech Ltd, Noida , in April 2014
- ✚ 20 Days FDP/SDP on “Migration from Licensed Software to Free open Source Software”, July 2014 , 2015 (Summer School)
- ✚ Enlighten “career awareness program “ on 22<sup>nd</sup> August 2015
- ✚ CEO Talk on Engineers Day 15<sup>th</sup> September 2015
- ✚ Raahgiri Camp on 4<sup>th</sup> October 2015
- ✚ Sopra Industry Academia Meet on 19<sup>th</sup> November 2015
- ✚ Industry Visit to TCS , Mother Dairy, Pahar pur Cooling Tower , Paras, Source Soft, Noida
- ✚ One Day workshop on “Hadoop Technology” on 19<sup>th</sup> February 2016



- ✚ One Day industrial visit to M/s Aprtron Pvt. Ltd. for providing practical exposure for server and network administration
- ✚ Organized an event “Innoveneer” for the business idea sharing on 15<sup>th</sup> February 2016.
- ✚ Organized “Nisarg- 2016” Project Exhibition in Inter College Techno Cultural Event marked by overwhelming participation with 40 Projects and Business Ideas on 17<sup>th</sup> March 2016.
- ✚ Organized 2 Days workshop on Mobile Application Development on 8-9<sup>th</sup> April 2016
- ✚ Organized 1 day workshop on Automation and Robotics by CORE, AKGEC on 11<sup>th</sup> April 2016
- ✚ Organized Skill Development Program MS Project for Civil Engineering Students
- ✚ Summer Training Program by Tailored by HCL, IBM , Microsoft and other training Partners for realtime project development on emerging tools and technology

### **Honors and Awards Received**

- **International Certified Cambridge Trainer with Distinction Grade.**
- **Certified Technical Consultant from Consultancy Development Centre, New Delhi**
- **Qualified Soft Skill Trainer from Infosys Campus Connect Program**
- Senior Member Association of Computing Machines
- Won Third Prize in Teacher Robotics Competition at Zonal Level organized by IIT Bombay in January 2015

### **Supervisory support provided:**

1. *No. of PhD Supervision(undergoing):* **03**
2. *No. of M Tech Thesis Guided:* **05**

### **M Tech Thesis Guided**

1. Jhilmil Mathur Batch 2009 on Digital Image Processing
2. Akhileshwar Batch 2010 on Temporal Database
3. Prachi Vats 2011 Social Network Analysis
4. Divya Saraswat 2012 Cloud Security
5. Parul Sharma 2013 Wireless Sensor Network on Cloud through Cloud Sim

### **Membership of Professional Societies:**

- CSTA membership
- Member of International Association of Engineers(IAENG)
- Senior Member Association of Computing Machines
- CSI- Computer Society of India.
- IETE, ISTE
- Member of Board of Studies of CS/IT/MCA of MTU University

**Pooja Tripathi**

**Designation**            **HOD, IT, Professor**

**Qualification**        **BE(Elect and Telecomm), M Ttech(IT) ,Ph.D**

**Area of Interest**    **Artificial Intelligence, Big Data Analytics, Web Mining**

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<https://scholar.google.co.in/citations?user=ONK2EngAAAAJ&hl=en>