

## **Profile of Prof. Raghuraj Singh**



1. **Name** :Raghuraj Singh
2. **Father's Name** : Sh.Baboo Singh
3. **Date of Birth** :July 01, 1967
4. **Category** :OBC
5. **Office Address** :Professor& Head,  
Department of Computer Science & Engineering,  
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### **8. Educational Qualifications**

<b>Sr. No</b>	<b>Examination Passed</b>	<b>Board/ University</b>	<b>Year of Passing</b>	<b>% Marks</b>	<b>Division</b>
1.	Ph. D.(Computer Science &Engineering)	U. P. Technical University, Lucknow	2006		
2.	M. S. (Software Systems)	BITS, Pilani	1997	9.27/10 (CGPA)	I (Hons.)
3.	B. Tech.(Computer Science &Engineering)	HBTI, Kanpur	1990	78.3	I (Hons.)
4.	B. Sc.	GorakhpurUniversity	1986	72.2	I
5.	Intermediate	U.P. Board	1984	68.6	I
6.	High School	U. P. Board	1982	68.4	I

**Topic of the Ph.D. Thesis:**Analysis and Design of Methodologies for Software Quality/Reliability Measures.

## 9. Professional Experience: (Approx. 28Years)

Sr. No.	Name of Employer	Designation & Pay Scale	Duration	Total Experience
1.	HBTU, Kanpur	Professor 37400 - 67000 AGP: 10000	18.01.2007 to Till date	11 Years&8 Months
2.	HBTI, Kanpur	Associate/Assistant Professor 37400 – 67000 AGP: 9000	26.11.1998 to 17.01.2007	8 Years &2 Months
3.	C. R. State College of Engineering, Murthal, Sonapat (Haryana)	Assistant Professor/ Lecturer 2200–4000 (unrevised)	03.09.1991 to 25.11.1998	7 Years & 3 Months
4.	Birla Technical Training Institute, Pilani	Assistant Professor/ Lecturer 2200 - 4000 (unrevised)	17.08.1990 to 31.08.1991	1 Year

## 10. Administrative Experience

### (A). Present

- **Head of Department**, Computer Science & Engineering Department, Harcourt Butler Technical University, Kanpur since January 31, 2018.
- **Dean**, Planning & Resource Generation, Harcourt Butler Technical University, Kanpur since January 02, 2018.
- **Co-ordinator**, Technical Quality Improvement Programme (TEQIP), Phase-III, Harcourt Butler Technical University, Kanpur since November 15, 2018.

### (B). Previous

- **Director**, Kamla Nehru Institute of Technology, Sultanpurduring October 29, 2014 to October 28, 2017.
- **Nodal Officer**, Indian Institute of Information Technology, Lucknowduring February 2015 to October 28, 2017.
- **Director (Mentor)**, Rajkiya Engineering College, Ambedkar Nagar, October 2014 to January 2015.
- **Director (Mentor)**, RajkiyaEngineering College, Sonbhadra, October 2014 to April 2016.
- **Head of Department**, Computer Science and Engineering Department, HBTI Kanpur, February 06, 2013 to October 28, 2014.
- **Controller of Examination**, HBTI, Kanpur, January 2011 to October 2014.

- **Nodal Officer**, Dr. B. R. Ambedkar Engineering College of Information Technology (Presently Rajkiya Engineering College), Bijnor, April 2010 to January 2011.
- **Head of Department**, Computer Science & Engineering Department, HBTI, Kanpur, September 2007 to September 2010.
- **Registrar**, HBTI, Kanpur, May 2005 to May 2006.
- **Assistant Dean**, Students' Welfare, HBTI, Kanpur, January 2005 to June 2005.
- **Chief Proctor**, HBTI, Kanpur, January 2007 to March 2008.
- Secretary, Alumni Association, HBTI, Kanpur during April 2011 to March 2013.
- Additional Centre Incharge, UPSEE-2012 Counselling, HBTI, Kanpur.
- Chairman, OBC Scholarship Committee, HBTI, Kanpur & Dr. BRAECIT, Bijnor.
- Centre Incharge, UPSEE-2011 Counselling, HBTI, Kanpur.
- Officer Incharge, Central Library, HBTI, Kanpur, January 2011 to January 2012.
- Dy. Co-ordinator, UPSEE-2008 and UPSEE-2009 Counselling, HBTI, Kanpur.
- Co-ordinator, National Mission on Education through Information and Communication Technology project of Govt. of India, HBTI, Kanpur.
- Treasurer, Alumni Association, HBTI, Kanpur during the year 2007-08 and 2008-09.
- Public Information Officer, HBTI, Kanpur, September 2005 to May 2006.
- Programme Incharge, IGNOU Programme Study Centre, Computer Science & Engineering Department, HBTI, Kanpur, April 2003 to April 2005.
- Co-Coordinator, Sustainability Support Scheme of the IMPACT Project of Department of Electronics, Government of India.
- **Head of Department**, Computer Science and Engineering Department, HBTI Kanpur, July, 2001 to September, 2004.
- Member, Flying Squad, GBTU, UPSEE, CPMT & GGS Indraprastha University Engineering & Medical entrance examinations.
- Member, various Enquiry & other Committees, HBTI, Kanpur.
- Warden, Lake View III Hostel, HBTI, Kanpur for two years.
- Coordinator, IGNOU Programme Study Centre, Computer Science & Engineering Department, HBTI, Kanpur for two years.
- **Deputy Registrar (General Admin.)**, C. R. State College of Engineering, Murthal (Sonapat) for one year.
- Warden, Boys Hostel, C. R. State College of Engineering, Murthal (Sonapat) for three years.

#### **11. Major Accomplishments as Director, KNIT Sultapur, Director (Mentor), REC Ambedkar Nagar & Sonbhadra and Nodal Officer REC Bijnor**

- Introduction of Choice Based Credit System (CBCS), adhering to the academic calendar, timely declaration of result of B. Tech./MCA and M. Tech. students, providing mark sheets

and degree timely and streamlining the submission and evaluation procedure of M. Tech. thesis.

- Completion of construction work of 03 Boys Hostels, underground electrical cabling of the entire campus, maintenance and upkeep of the Institute building, energy saving through solar lights and LED lights for the campus illumination, water drainage system and started construction of Transient Hostel & Campus Roads, 17 Rooms on the first floor of the Ramanujam hostel and renovation of the Guest House.
- Development of 04 Virtual Class Rooms containing facilities for e-learning, Remote Lecture and video conferencing etc.
- Organization of about 40 short term training programs, National conferences, Invited lectures, entrepreneurship development programs, and pedagogical programs etc.
- Organization of 07 International conferences and promotion of other R&D activities.
- Successful completion of selection process for promotion of 23 Faculty members under Career Advancement Scheme.
- Installation of Generator, RO, Water Coolers, and Wi-Fi facilities in the campus including hostels.
- Improvement in students training & career counselling and significant improvement of the placement status from 30% to almost 65%.
- Establishment of Innovation, Incubation and Startup Centre with the financial assistance from the Ministry of IT & Industry, Govt. of U.P.
- Regular organization of various curricular, co-curricular and extra-curricular activities like Anubhuti (Literary/Cultural), Effulgence (Technical), Tvaran (Sports) every year.
- Procurement of latest equipment for various laboratories and Computer, ACs, peripherals & software for the Computer Centre.
- Regular organization of Alumni Meets every year.
- Implementation of NPS for employees joined the Institute after 2004.
- Granting long pending arrears of Faculty and Staff and resolving the long pending issue of ACP of some Class-III employees of the Institute.
- Successful conduction of Academic Council, Finance Committee, BOG and Academic Audit Committee meetings regularly.
- Successful implementation of TEQIP-II objectives and approval of the TEQIP-III.
- Significant progress towards resolving long pending land issue of the Institute.
- Monitoring of construction work, looking after academic affairs and procurement of equipment for various labs of REC, Ambedkar Nagar as Director (Mentor).
- Monitoring of construction work of REC, Bijnor as Nodal Officer.
- Monitoring of construction work, managing and looking after various academic affairs of REC, Sonbhadra as Director (Mentor).

## **12. Major Accomplishments as Nodal Officer IIIT, Lucknow**

- Monitoring of construction work.
- Arranging/Conduction of five meetings of the Board of Governors.
- Getting registration of the Institute in CSAB/JOSAA for admission through JEE (Mains).
- Coordinating with IIIT, Allahabad (Mentor Institute) for various academic and administrative affairs of the students/Institute.
- Preparation and submission of the detailed academic DPR of the Institute for approval of the BOG/Govt.

## **13. Projects Undertaken**

- Worked as Principal Investigator of a project entitled “Design and Development of Internet Browsing System for Visually Challenged” sponsored by UGC, New Delhi under Major Research Project Scheme, Sanctioned amount 10.00 lakh.
- Worked as Coordinator of a project entitled “Advanced Software Development and Applications” sponsored by the AICTE, New Delhi under MODROBS scheme, Sanctioned amount 10.00 lakh.
- Worked as Chief Coordinator of a project entitled “Experimentation and Development of Software Reliability and Complexity Measurement Techniques”, jointly sponsored by the MHRD, Government of India, and AICTE, New Delhi, Sanctioned amount 5.00 lakh.
- Carried out M.S. (Software Systems) Dissertation work on Software Metrics and developed a “Software Metrics Analysis & Testing Tool” for the analysis of software written in ‘C’ language.
- Guided a number of projects to the students of B. Tech. Computer Science & Engineering, Information Technology and MCA.

## **14. Membership / Affiliations of Professional Bodies / Institutions**

- Member, Institute Senate, Indian Institute of Information Technology (IIIT), Lucknow.
- Member, Selection Committee of Directors, Rajkiya Engineering Colleges at Banda, Bijnor, Azamgarh and Ambedkar Nagar.
- Member, Selection Committee of Director, Uttar Pradesh Textile Technology Institute, Kanpur.
- Member/AICTE representative, Faculty Selection Committee, Rajkiya Engineering College, Azamgarh (U.P.).
- Member, Board of Governors, Rajkiya Engineering Colleges at Ambedkar Nagar, Kannauj and Mainpuri.
- Member, Administrative Committee, Rajkiya Engineering College, Ambedkar Nagar for 3 years since 16.06.2017.

- Member, Executive Council, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow.
- Member/AICTE representative, Administrative Council, Uttar Pradesh Textile Technology Institute, Kanpur.
- Lifetime Membership of BhartiyaShikshanMandal, Uttar Pradesh.
- Life Member of the Indian Society for Technical Education (ISTE), No. LM21479.
- Fellow Member of the Institution of Engineers (India), No. F-117925-6.
- Fellow Member of the Institution of Electronics and Telecommunication Engineers (IETE), No. F160482.
- Professional member of Association for Computing Machinery (ACM), No. 3404445.
- Senior Member of the Computer Society of India (CSI), No. 00175767.
- Senior Member of International Association of Computer Science and Information Technology (IACSIT), Singapore.
- Member, Expert Committee, UGC, New Delhi for inspection of Universities and Deemed to be Universities.
- Member, Expert Committee, National Board of Accreditation (NBA), AICTE, New Delhi.
- Member, Board of Studies, Computer Science & Engineering, Information Technology and MCA programmes, U. P. Technical University, Lucknow.
- Member, RDC, Computer Science & Engineering, U. P. Technical University, Lucknow.
- Expert, Selection Committees for various posts at IIT, Kanpur.
- Member, Board of Studies, Computer Science & Information Technology, MJP Rohilkhand University, Bareilly.
- Member, Board of Studies, Department of Information Technology, UIET, CSJM University, Kanpur.
- Member, Board of Studies, MCA Department, UIET, CSJM University, Kanpur.
- Member, Executive Committee, Joint Entrance Examination Council, U.P.
- Member, Academic Advisory Body, ACME College of Engineering, Ghaziabad.
- Member, Board of Governors, IEC College of Engineering & Technology, GautamBuddh Nagar, Greater Noida.
- Chairman, Computer Society of India (CSI), Kanpur Chapter since March, 2013.
- Member, RDC, Computer Science & Engineering, Uttarakhand Technical University, Dehradun.
- Technical Expert, Computer Science & Engineering, U.P. Public Service Commission, Allahabad.
- Technical Expert, Computer Science & Engineering, M.P. Public Service Commission, Bhopal.

- Member, Board of Studies, Computer Science & Engineering, Bundelkhand Institute of Engineering and Technology, Jhansi.
- Member, Board of Governors, Bundelkhand Institute of Engineering and Technology, Jhansi, for the year 2013-14.
- Member, Board of Studies, Rama University, Uttar Pradesh, Kanpur.

## **15. Ph.D. Supervision: 20**

### **Completed: 11**

- Prashant Kumar Mishra, “Issues of Reliability in Mobile Agent based Systems”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, June 2018.
- Dr.C. S. Yadav, “Software Metrics Set for Object Oriented Software”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, February 2016.
- Dr.Shubha Jain, “Measurement and Metrics for Object Oriented Software using Predictive Object Points”, Uttarakhand Technical University, Dehradun, February 2016.
- Dr. Anita Yadav, “Quality of Services (QoS) in Mobile Adhoc Networks Based on Link Prediction”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, January 2016.
- Dr. Sukhdeep Singh, “Development of Methodologies for Testability Measures and Metrics of Object Oriented Software”,MaharshiDayanand University, Rohtak, 2014.
- Dr. VibhashYadav, “Assessment of Design/Quality Measures of Object Oriented Software”, Uttarakhand Technical University, Dehradun, December 2013.
- Dr. PrabhatVerma, “Speech as Interface in Web-applications for Visually Challenged”, Uttarakhand Technical University, Dehradun, January 2013.
- Dr. B. K. Sharma, “Watermarking for Copyright Protection for Software Codes”, Shobhit University, Meerut, 2012.
- Dr. DeveshSrivastava, “Analysis and Design of Software Metric through Object Oriented Software Reengineering”, Uttarakhand Technical University, Dehradun, 2012.
- Dr. Nanhay Singh, “Applications of Intelligent Web Mining Techniques and Web Traffic in Analysis of Modelling of Web Marketing Strategies”, Kurukshetra University, Kurukshetra, 2012.
- Dr. K. P. Yadav, “Analysis and Design of Core Metrics for Modern Software Projects“, Corllins University, USA, 2009.

### **In Progress: 09**

- Sheel Kumar, “Object Oriented Software Quality Enhancement Using Program Restructuring”, Uttarakhand Technical University, Dehradun.
- Rekh Nath Singh, “Semantic Integration of Distributed Databases”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

- MadhuJadon, “Image Processing Techniques for Automatic Detection of Plant Diseases”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- ShilpaTiwari, “Design and Maintainability Issues in Aspect Oriented Software Development”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Danish Ather, “Optimized Simplified Routing Algorithm for Handover Management in VANETS across Heterogeneous Networks”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Sarang Anil Saoji, “Image Processing Based Intelligent Approach to Automate Reticulocyte Count and Mine Its Clinical Implications in Sickle Cell Disease Patients”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Vijay Yadav, “Role of Predictive Object Point Metrics in Object Oriented Software Engineering”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Rohit Sharma, “Reliability Estimation Issues in Cloud Management Systems”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- RishikaYadav, “Analysis and Design of Advanced Optimization Techniques for Solving Coverage Problem and Congestion Control in Wireless Sensor Networks”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

#### **16. M. Tech. Supervision: 29**

##### **Completed: 26**

- SakshiVerma, “A Computer Assisted Assessment Tool for Personal Behavioral Interviews”, BanasthaliVidyapeeth, Jaipur Campus, Rajasthan, June 2016.
- PriyankaPandey, “Code Refactoring as a Means of Improving Quality of Object Oriented Software”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, January 2016
- VinayPrakash, “A Case Study of Energy Issues and Energy aware Routing Protocols in MANET for Network Performance Management”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, January, 2016.
- NeerajKumari, “Evaluation of Metrics and Assessment of Quality of Object Oriented Software”, U.P. Technical University, Lucknow, 2014.
- Pratibha, "Direct Speech-Enabling the Public Utility Websites", BanasthaliVidyapeeth, Rajasthan, April 2014.
- Rekha Rani Tiwari, "Direct Speech-Enabling the Public Utility Websites", BanasthaliVidyapeeth, Rajasthan, April 2014.
- Divya Mishra, "Dependence Clusters in Object Oriented Programming Paradigm", BanasthaliVidyapeeth, Rajasthan, April 2014.



- R. P. Pandey, “To implement an architecture for making transferable e-cash schema and showing comparative study on different technologies”, G.B. Technical University, Lucknow, 2014.
- Avinash Singh, “2-D Cursor Movement and Target Selection using EEG Based Brain Computer Interface”, M. S. Software Systems, BITS, Pilani, December 2013.
- Pradeepika Verma, “Design and Development of Browsing System for Visually Challenged in Indian Context”, Banasthali Vidyapeeth, Rajasthan, April 2013.
- Shilpa Tiwari, “Design and Development of Browsing System for Visually Challenged: Hindi Synthesizer”, Banasthali Vidyapeeth, Rajasthan, April 2013.
- Danish Ather, “Transforming Sequential ‘C’ Applications to KAHN Process Network”, G.B. Technical University, Lucknow, February, 2013.
- Haridarshini, “An Algorithm for Improving Quality Parameters for MANET Routing Protocol”, G.B. Technical University, Lucknow, December 2013.
- Shilpi Khanna, “Modeling and Verification of Real-Time ATM Transactions using Unified Modeling Language”, G.B. Technical University, Lucknow, 2012.
- Deepak Swain, “Fault-Tolerant Scheduling Techniques for Grid Computing Systems”, G.B. Technical University, Lucknow, 2011.
- Pradeepta Kumar Sarangi, “Short Term Load Forecasting using Back Propagation Algorithm of Artificial Neural Networks: A Comparison with Genetic Algorithm Implementation”, G.B. Technical University, Lucknow, 2011.
- Ritesh Khanna, “A Fuzzy Logic Based Improved Method for assessment of Function Points”, G.B. Technical University, Lucknow, 2011.
- Ashish Sharma, “Study and Analysis of Density based Clustering Algorithms in Data Mining”, U.P. Technical University, Lucknow, 2010.
- Prashant Mishra, “Design and Development of an Improved Software Complexity Metric”, U.P. Technical University, Lucknow, 2010.
- Ankur Shree Agarwal, “Analysis & Design of a Framework for Domain-Specific Interface Mapper on Hidden Database”, U.P. Technical University, Lucknow, 2010.
- Rakesh Dwivedi, “MVDR Beamformer Implementation on GPU (Graphical Processing Unit) -A case study for parallelizing real time system for performance improvement”, U.P. Technical University, Lucknow, 2010.
- Deepak Verma, “A Trust and Load Balancing Peer to Peer System”, U.P. Technical University, Lucknow, 2010.
- Priya Mishra, “Analysis and Development of an Enhanced approach for Effective whole Path Impact”, U.P. Technical University, Lucknow, 2010.
- Prabhat Verma, “A Quality Assessment Model for Object Oriented Software System”, U.P. Technical University, Lucknow, 2008.

- Mamta Tiwari, “Implementation and Analysis of Software Reliability Allocation Models”, U.P. Technical University, Lucknow, 2006.

### **In Progress: 03**

- Praveen Gupta, “Study and Implementation of Proactive and Reactive Routing Protocols in MANETs”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Sapna Verma, “An Efficient Filtering Approach for Information Discovery on the Web”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- Abdul Qayoom Mansoori, “Evaluation of Performance and Assessment of Quality Coordination in OpenUP”, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

## **17. Research Papers / Publications: 133**

### **International Journals: 78**

1. Prashant Kumar Mishra, Raghuraj Singh, and Vibhash Yadav, “Incorporating Novel Hierarchical Secure Model for Performance and Reliability Evaluation in Mobile Agent System”, International Journal of Communication Networks and Distributed Systems (2018). --- In Press.
2. Prashant Kumar Mishra, Raghuraj Singh, Vibhash Yadav, “Improving Reliability in MAS by Rule Based Logic and Cryptographic Techniques”, International Journal of Advanced Intelligence Paradigms (2017). --- In Press.
3. Rekh Nath Singh, Raghuraj Singh, “Advanced Pre-fetching Based Dynamic Data Replication under Small World Network Model”, International Journal of Integrated Engineering (Scopus Indexed), 2018. --- Accepted.
4. Rekh Nath Singh, Raghuraj Singh, “Performance Evaluation of Novel Dynamic Data Replication Algorithm under Optical Burst Switching”, Journal of Optical Communications (Scopus Indexed), 2018. --- Accepted.
5. Anil Kumar Yadav, Rama Shankar Yadav and Raghuraj Singh, “New Heuristic Algorithms for Constructing Connected Dominating Set in Wireless Adhoc Networks”, International Journal of Electronics (Taylor & Francis Group). --- Accepted.
6. Rekh Nath Singh, Raghuraj Singh, “Performance Evaluation of M-PDDRA Algorithm under Prioritized Traffic”, Journal of Engineering Science and Technology (Scopus Indexed), Vol. 13, No. 7, pp. 2166-2180, 2018.
7. Rekh Nath Singh, Raghuraj Singh, “Database Replication Algorithm Performance in High Speed Networks under Load Balancing”, International Journal of Applied Engineering Research (Scopus Indexed), Vol. 13, No. 6, pp. 3475-3482, 2018.
8. Vijay Yadav, Vibhash Yadav, Raghuraj Singh, “An Automated Software Cost and Schedule Measurement Tool for OO System using Predictive Object Point Sizing Metrics”, Journal of

- Emerging Technologies and Innovative Research (ISSN: 2349-5162),UGC Approved & Impact Factor: 5.87, Vol. 5 No. 2, pp. 1106-1111, February 2018.
9. Chandrahas Mishra, DharmendraLal Gupta, Raghuraj Singh, "Credit Card Fraud Identification Using Artificial Neural Networks", International Journal of Computer Systems(ISSN: 23941065), Vol. 04, No. 07, pp. 151-159, July 2017.
  10. Prashant Kumar Mishra, Raghuraj Singh, VibhashYadav, "Reliability Assessment of Mobile Agent Based System in Suspicious MANET", International Journal of Information Technology, Springer Singapore, Vol. 2, No. 2, pp. 209-214, June 2017.
  11. K. P. Yadav, FirojParwej, R. L. Godara, PoonamYadav, Raghuraj Singh, "Study on Empirical Review of Energy Optimization in Heterogeneous WSN", International Journal of Research in Engineering and Applied Sciences, Vol. 6, No. 2, pp. 173-182, February 2016.
  12. Prashant Kumar Mishra, Raghuraj Singh, VibhashYadav, "A Hierarchical Model for Reliability Estimation of Mobile Agent Based Systems", International Journal of Software and Web Sciences (IJSWS), Vol. 16, No. 1, pp. 10–15, 2016.
  13. Vijay Yadav, VibhashYadav, Raghuraj Singh, "Introducing New OO Metric for Simplification in Predictive Object Points (POP) Estimation Process in OO Environment", International Journal of Engineering Science and Research Technology (IJESRT), Thomson Reuters Endnote, Vol. 5, No. 1, pp. 672-678, January 2016.
  14. Anita Yadav, Y. N. Singh and R. R. Singh, "Improving Routing Performance in AODV with Link Prediction in Mobile Adhoc Networks", Wireless Personal Communication, Vol. 81, Issue 1, pp. 603–618, July 2015.
  15. Anita Yadav, Y. N. Singh, and Raghuraj Singh, "Cross Layer Design for Power Control and Link Availability in Mobile Adhoc Networks", International Journal of Computer Networks & Communications (IJCNC), Thomson Reuter Indexed, Vol.7, No.3, pp. 139-155, May 2015.
  16. Raghuraj Singh, PrabhatVerma, IshaGarg,VibhashYadav, "Assessment of Maintenance Activities of ObjectOriented Software using Ripple Effect Analysis", International Journal of Innovations & Advancement in Computer Science (IJIACS) ISSN 2347 – 8616, Vol. 4, Special Issue March 2015.
  17. Anil Yadav, Rama Shankar Yadav, Raghuraj Singh, and Ashutosh Singh, "Connected Dominating Set for Wireless Ad Hoc Networks: A Survey", International Journal of Engineering Systems Modelling and Simulation (IJESMS), Vol. 7, No. 1, pp. 22-34, Inderscience Publication, 2015.
  18. Anita Yadav, Y. N. Singh and Raghuraj Singh, "Dynamic Power Control MAC Protocol in Mobile Adhoc Networks", International Journal of Innovations & Advancement in Computer Science (ISSN 2347–8616), Volume 4, Issue 3, pp. 77–81, March 2015.

19. NirvikarKatiyar and Raghuraj Singh, "Software Testing Methods using Formal Models", International Journal of Research in Science and Technology, Vol. 4, Issue 3, pp. 90-100, 2014.
20. Chandra ShekharYadav, Raghuraj Singh, Yaduvir Singh "Reliability analysis of object oriented systems using vague lambda-tau modeling" Int. J. Fuzzy Computation and Modelling, Inderscience Publication, Vol. 1, No. 2, pp. 151-168, 2014.
21. Danish Ather, Raghuraj Singh, VinodaniKatiyar, "Simplifying Designing Techniques to Design DFA that accept Strings over  $\Sigma=\{ a, b \}$  Having at least x Number of a and y Number of b", International Journal of Computer Applications (IJCA), Published by Foundation of Computer Science, U.S.A. Vol. 91, No. 7, April 2014.
22. Anil Kumar Yadav, Rama Shankar Yadav, Raghuraj Singh and Ashutosh Kumar Singh, "Efficient topology control scheme for wireless adhoc networks," Int. J. Computational Intelligence Studies, Inderscience Publication, Vol. 3, No. 1, Pages 94-109, 2014.
23. Danish Ather, Raghuraj Singh, VinodaniKatiyar, "A Simplified Solution to Design DFA that accept Strings over input symbol {a, b} having at least x Number of a and Exactly x Number of b", International Journal of Computer Applications(IJCA), Vol. 2, Issue 1, April 2014.
24. Prashant Kumar Mishra, Raghuraj Singh, "A Survey on Reliability Estimation Techniques for Mobile Agent Based Systems", International Journal of Advanced Computer Research (IJACR), Vol. 4, No. 1, Issue 14, pp. 123-133, March 2014.
25. Chandra ShekharYadav, Raghuraj Singh, "Prediction Model for Object Oriented Software Development Effort Estimation Using One Hidden Layer Feed Forward Neural Network with Genetic Algorithm" International Journal of Advances in Software Engineering, Vol. 2014, pp. 1-6, Hindawi Publishing Corporation 2014.
26. Chandra ShekharYadav, Raghuraj Singh, "Tuning of COCOMO II Model Parameters for Estimating Software Development Effort using GA for PROMISE Project Data Set" International Journal of Computer Applications (ISSN: 0975-8887), Vol. 90, No. 1 pp. 37-43 Foundation of Computer Science, New York, USA, 2014.
27. Chandra ShekharYadav, Raghuraj Singh, "Implementation of Prediction Model for Object Oriented Software Development Effort Estimation using One Hidden Layer Neural Network" International Journal of Advanced Computer Research (ISSN (print):2249-7277 ISSN(online):2277-7970), Vol. 4, Issue-14, pp. 157-166, March2014.
28. Shubha Jain, Raghuraj Singh, "Identifying a Direct Relationship between Predictive Object Points (POP) Count and Source Lines of Code (SLOC) for OO Software", International Journal of Advanced Research in Computer Science and Software Engineering, Impact Factor: 2.080, Vol. 4, Issue 3, pp. 835-839, March2014.
29. Shubha Jain, Vijay Yadav, Raghuraj Singh, "Mapping Predictive Object Points(POP) with Software Size in OO Environment", International Journal of Enhanced Research in Science,

- Technology & Engineering, ISSN No: 2319-7463, Impact Factor: 1.252, Vol. 3, Issue 1, pp.395-399, January2014.
30. Shubha Jain, Vijay Yadav, Raghuraj Singh, "Assessment of Predictive Object Points (POP) Values for Java Projects". International Journal of Advanced Computer Research ISSN (print): 2249-7277, ISSN (online): 2277-7970, Impact Factor 1.863, Vol. 3 No. 4 Issue13, December 2013.
  31. VibhashYadav, Raghuraj Singh, "Product vs. Design Quality of Object-Oriented Software", International Journal of Software and Web Sciences (IJSWS), Vol. 5, No. 1, pp. 47-54, August 2013
  32. PrabhatVerma, Avinash Kumar Singh, and Raghuraj Singh, "A Framework to Integrate Speech based Interface for Blind Web Users on the Websites of Public Interest", Human Centric Computing and Information Sciences: A SpringerOpen International Journal, Vol 3 No. 21, DOI: 10.1186/2192-1962-3-21, 2013.
  33. Shubha Jain, Vijay Yadav, Raghuraj Singh, "OO Estimation through Automation of the Predictive Object Points Sizing Metric", International Journal of Computer Engineering and Technology (IJCET), ISSN 0976- 6367 (Print), ISSN 0976 – 6375 (Online), Vol. 4, Issue 3, pp. 410-418, May – June 2013.
  34. NirvikarKatiyar, and Raghuraj Singh, "Prediction of Number of Faults and Time to Remove Errors", International Journal of Computational Engineering Research (IJCER), Vol. 3, No. 4, pp. 57-65, April 2013.
  35. Sukhdip Singh, Rajive Kumar, and Raghuraj Singh, "RTM: A Relation Based Testability Metrics for Object Oriented Software", International Journal of Computer Applications (ISSN 0975-8887), Published by Foundation of Computer Science, New York, USA, Vol. 67, No. 8, pp. 50-56, April 2013.
  36. Danish Ather, Raghuraj Singh, VinodaniKatiyar, "An Efficient Algorithm to Design DFA That Accept Strings over Input Symbol a, b having exactly x Number of a & y Number of b", IEEE Catalogue Number: CFP1362U-CDR, March2013.
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2. RekhNath Singh, and Raghuraj Singh, "A Survey on Semantic Integration in Distributed Database System", Proceedings of the National Conference on Computing, Communication, Control and Informatics (NC4I-2016) organized by Kanpur Institute of Technology, Kanpur during November 5-6, 2016.
3. Raghuraj Singh, "Reliability Issues in Software Development Process", Proceedings of National Conference on "Information Security and Software Engineering" organized by Department of Computer Science, University of Lucknow, Lucknow, Page 51-57, March 10-11, 2014.
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## **18. Reviewer of the Journals, Books & Conferences: 31**

### **Reviewer of the Journals: 08**

- **Editor-in-Chief**, International Journal of Forensic Software Engineering (IJFSE) published by Inderscience Publishers.
- **Patron**, MATRIX Academic International Online Journal of Engineering and Technology (Online ISSN: 2348-3326), Impact Factor: 0.665.
- Member, Editorial Board, and Reviewer, "International Journal of Software Engineering, Technology and Applications (IJSETA)", published by Inderscience Publishers.
- Reviewer, International Journal of Computer Theory and Engineering (IJCTE), a scholarly open access, peer-reviewed, interdisciplinary, quarterly and fully refereed journal published by the International Association of Computer Science and Information Technology (IACSIT), Singapore.
- Reviewer, International Journal of the Physical Sciences (IJPS)(ISSN 1992-1950)an open access and peer-reviewed monthly journal published by the Academic Journals.
- Reviewer, Journal of Mathematics and Systems Sciences published by the Kurukshetra University, Kurukshetra, Haryana.
- Reviewer, Central European Journal of Computer Science, ISSN: 1896-1533 (print version), ISSN: 2081-9935 (electronics version), published by Versita: Emerging Science Publishers, Co-published with Springer Verlag.
- Reviewer, International Journal of Advanced Computer Science and Applications (IJACSA) U.S. ISSN: 2156-5570(Online) and U.S. ISSN: 2158-107X(Print), published by The Science and Information Organization, USA.

**Reviewer of the Books: 11**

- Two chapters of the book titled “Database Management Systems”, published by Oxford University Press.
- Two chapters of the book titled “Software Project Management”, by M. Cotterell published by McGraw-Hill Education India publication.
- Four chapters of the book “Software Engineering: A Practitioner’s Approach” by R. S. Pressman, sixth edition, published by McGraw-Hill Education India publication.
- Book titled “Object Oriented Software Engineering: Practical Software Development using UML and Java” by T. C. Lethbridge and R. Langaniere published by McGraw-Hill Education India publication.
- Book titled “Theory of Automata and Formal Languages” published by Cengage Learning Publication.
- Book titled “Software Engineering” by Stephen Schach” published by McGraw-Hill Education India publication.
- Four chapters of the script of a book “Programming Languages” published by McGraw-Hill Education India publication.
- Three chapters of the script of a book “Formal Languages and Automata Theory”, published by McGraw-Hill Education India publication.
- Three chapters of the script of a book “Client/Server based Projects”, published by Orient BlackSwan Private Limited formerly Universities Press, Hyderabad.
- Customized a book titled “Computer Concepts and Programming in C” as per the syllabus of subject code ECS-101/201 of G.B. Technical University, Lucknow and Mahamaya Technical University, NOIDA.
- Book Chapter “Advanced and Recent Teaching Technologies in Technical/Higher Education”, Elements of Teaching Learning Process, Elsevier Publications, 2014.

**Reviewer of the Conferences: 14**

- Member, Advisory Board, International Conference on System Modelling & Advancements in Research Trends (SMART-2017) organized by TeerthankerMahaveer University, Moradabad during December 28-29, 2017.
- Member, Advisory Board, National Conference on Computing, Communication, Control and Informatics (NC4I-2016) organized by Kanpur Institute of Technology, Kanpur during November 5-6, 2016.
- Member, Program Committee, Sixth International Conference on Communication Systems and Network Technologies, Chandigarh, March 05-07, 2016.



- Member, Technical Program Committee, International Conference on Computer and Computational Sciences, organized by I.T.S. Engineering College, Greater NOIDA in association with IEEE UP Section, January 27-19, 2015.
- Member, Technical Program Committee, 4th International Conference on Reliability, Infocom Technologies and Optimization ([www.amity.edu/aiit/icrito2015](http://www.amity.edu/aiit/icrito2015)), organized by the Amity Institute of Information Technology, Amity University, NOIDA in association with Computer Society of India and co-sponsored by IEEE UP Section, September 2- 4, 2015.
- Member, Program Committee, 9th IEEE International Conference on Industrial and Information Systems (ICIIS-2014), organised by AtalBihari Vajpayee Indian Institute of Information Technology and Management Gwalior, India, December 15-17, 2014.
- Member, Program Committee, 1st International Conference on Information Systems and Computer Networks (ISCON-2013), organised by G.L.A. University, Mathura, March 9-10, 2013.
- Member, National Advisory Committee, 3<sup>rd</sup> IEEE International Advance Computing Conference (IACC-2013) organized by Ajay Kumar Garg Engineering College, Ghaziabad, February 22-23, 2013.
- Member, Technical Committee, Workshop on Development of Competence in Technical Education organized by G.B. Technical University, Lucknow, January 17-18, 2013.
- Member, National Advisory Board, 2<sup>nd</sup> International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies (ICNICT-2012) organized by Krishna Institute of Engineering and Technology & TBI-KIET, Ghaziabad, India in association with Computer Society of India (CSI) Ghaziabad Chapter, September 7-8, 2012.
- Reviewer, IEEE Sponsored Students' Conference on Engineering and Systems (SCES-2012) organised by MNNIT, Allahabad, UP, India, March 16-18, 2012.
- Member, Program Committee, 7<sup>th</sup> National Conference on Advancement of Technologies – Information Systems & Computer Networks (ISCON-12), organised by Department of Computer Engineering & Applications, GLA University, Mathura, March 3-4, 2012.
- Reviewer, International Conference on Machine Learning and Computing (ICMLC-2011), organised by the IEEE in Singapore, February 26-28, 2011.
- Reviewer, International Conference on Information Systems for Indian Languages (ICISIL-2011), organised by the Department of Computer Science, Punjabi University, Patiala, March 9-11, 2011.

## 19. Honours /Awards

- **Guest of Honour and Keynote Speaker**, IEEE (UP) sponsored 7th International Conference on System Modelling and Advancement in Research Trends (SMART-2018) organised by CCSIT, TMU, Moradabad during November 23-24, 2018.

- Conferred the **Best award for promoting Digital Learning Platform** by CCSIT, TMU Moradabad during Silver Jubilee Celebration of IEEE (UP) Section on December 29, 2017.
- **Guest of Honour and Keynote Speaker**, IEEE (UP) sponsored Sixth International Conference on System Modelling and Advancement in Research Trends (SMART-2017) organised by CCSIT, TMU, Moradabad during December 28-29, 2017.
- Conferred the **Fellow award by the International Society of Agile Manufacturing (ISAM)** in recognition of illustrious career in teaching, research and administration and lifelong contribution to the field of Concurrent Engineering & Education Technology.
- Conferred the **“Dr.Kalam Award” by the Charitable Help Foundation** and District Magistrate of Kannauj for excellent work in the field of social service (development of an internet browsing system for visually challenged persons) during 5<sup>th</sup> Talent Honour Function organised on October 20, 2013.
- **Guest of Honour**, U. P. Start-up Conclave Entrepreneurship and Innovation in Academic Institutions: Challenges and Opportunities organised by IIT, Kanpur (TEQIP Centre KIT), SIIC and SPFU, Lucknow during March 18-19, 2017.
- **Chief Guest and Keynote Speaker** and Member, Advisory Board, IEEE (UP) and CSI sponsored Fifth International Conference on System Modelling and Advancement in Research Trends (SMART-2016) organised by College of Computing Sciences & Information Technology, TMU, Moradabad during November 25-27, 2016.
- **Chief Guest and Keynote Speaker**, Workshop on “Skills of Success: Personal and Professional Enrichment Programme” organised by EduAhead and Shruth& Smith in collaboration with SPFU, Uttar Pradesh, Lucknow during September 22-24, 2016.
- Guest of Honour, Workshop on “Ethical Hacking and Forensics” organised by Department of Computer Science & Engineering, CSJM University, Kanpur during April 12-13, 2014.
- Guest of Honour & Keynote Speaker, National Conference on “Information Security and Software Engineering” organized by Department of Computer Science & Engineering, Lucknow University, Lucknow during March 10-11, 2014.
- Guest of Honour, Workshop on “Artificial Neural Networks and Pattern Recognition using MATLAB”, organised by Department of Information Technology, CSJM University, Kanpur during March 8-9, 2014.
- Guest of Honour, Workshop on “Introduction to Software System & Computer Network”, Ambedkar Institute of Technology for Handicapped, Kanpur, October 9-10, 2013.

## 20. Invited/Expert Lectures

- “Artificial Intelligence: Overview, Issues and Future Trends”, One week Faculty Development Programme on Applications of Artificial Intelligence organized by Rajkiya Engineering College Banda during October 30 to November 03, 2018.

- “Role of Analysis, Modeling & Simulation in Research”, One week Faculty development Programme on Mathematical Modeling & Research Methodology, organized by the Department of Mathematics, HBTU Kanpur during October 08-12, 2018.
- “IT Project Management and the Impact of Information Technology on the Human Resource Professionals”, Two day National Conference on Human Resource Management in World of Information Technology organized by STEP-HBTI, Kanpur during December 2-3, 2017.
- “Data Science: An Introduction”, IETE Foundation Day celebration by the IETE Students Forum (ISF) Krishna Institute of Technology, Kanpur on November 02, 2017.
- “Software Development: Areas of Application, Approach and Effectiveness”, Indus Institute of Technology & Management, Bilhaur, Kanpur, April 17, 2017.
- “Modelling and Simulation Techniques for Engineering Research”, Two weeks AICTE sponsored FDP on Simulation and Mathematical Tools for Engineering Research organised by KNIT, Sultanpur during July 04-15, 2016.
- “Optimization using Genetic Algorithm and PERT/CPM”, One week FDP on IT Tools and Optimization organized by Kanpur Institute of Technology, Kanpur during June 6-11, 2016.
- “Research Methodology: An Overview”, AICTE sponsored two weeks FDP on Research Methodology using Data Analytical Tools organized by KNIT, Sultanpur during January 11-22, 2016.
- “Non-functional Requirements (NFR): An Analysis on Quality Perspective, 3<sup>rd</sup> Lucknow Science Congress (LUSCON-2015) & National Conference on Science for Society: An Interdisciplinary Approach organized by BabasahebBhimraoAmbedkar University, Lucknow during October 31 to November. 02, 2015.
- “Engineering Education: An Analysis”, State level Faculty Interaction Seminar organized by H.B.T.I., Kanpur during June8-9, 2015.
- “Cyber Laws in India: A Critical Analysis”, National Level Seminar on “Internet Security and Cyber Laws” organized by the Department of Computer Science & Engineering, HBTI, Kanpur during April 5-6, 2014.
- “Accreditation and Assessment of Engineering Institutions”, and “Autonomy in Higher Engineering Institutions”, FDP on “Engineering Education: Opportunities, Challenges & Future Directions”, organized by Department of Mechanical Engineering, HBTI Kanpur during March 7-12, 2014.
- “Analysis & Modeling of Software Systems” and “Optimization of Software Codes”, FDP on “Digital Signal Processing using MATLAB, organized by Department of Electronics Engineering, HBTI Kanpur during January 6-10, 2014.
- “Modeling and Simulation of Software Systems” and “Modeling of Optimal Software Reliability Allocation Problem using Genetic Algorithm”, FDP on “Simulation, Modeling

and Analysis of Engineering Systems” organized by the Department of Computer Science & Engineering, HBTI, Kanpur during October 25-30, 2013.

- “Appropriate Approach for Quality Software Development”, Two day Workshop on “Introduction to Software System & Computer Network”, Ambedkar Institute of Technology for Handicapped, Kanpur during October 9-10, 2013.
- “Advancements in Teaching Methodologies” and “Virtual Classroom”, FDP “Essentials of Teaching Learning Process” organized by Humanities Department, HBTI, Kanpur during March 18-23, 2013.
- Live session on “Software Engineering” for IGNOU, GyanVani Channel, All India Radio, Kanpur.
- “Software Engineering Principles and Practice”, Ambedkar Institute of Technology for Handicapped, Kanpur.
- Live session on “Artificial Intelligence & Expert Systems” for IGNOU, GyanVani Channel, All India Radio, Lucknow.
- “Paradigm Change in Computer Programming”, Institution of Engineers (India), Kanpur Local Chapter.
- “Object Oriented Software Design Approach”, IRDT, Kanpur.
- “Quality Software Development Approach”, Dr. VirendraSwarup Institute of Computer Studies, Kanpur.
- “Research Issues in Software Engineering”, IETE Kanpur Chapter.
- “Internet and its Applications”, D.B.S. College, Kanpur.
- “Paradigm Shift in Software Development”, IRDT, Kanpur.

## **21. Courses / Workshops/ Conferences Organised**

- Two day National Conference on “Intelligent Computing, Communication and Data Science (NCICCD-2018), HBTU Kanpur during November 29-30, 2018.
- One day workshop on “Enhancement of Professional Skills for Placement”, HBTU Kanpur on September 05, 2018.
- One day Workshop on Ideation, HBTU Kanpur on September 01, 2018.
- One day Workshop on Entrepreneurship Development, HBTU Kanpur on September 05, 2018.
- Two weeks Summer Training Program on “Introduction to Core Java, Web and Android Studio”, HBTU Kanpur during July 09-21, 2018.
- National Level Conference on “Internet Security and Cyber Laws” and INCORD-2014: The Annual Technical Fest of Department of Computer Science & Engineering, HBTI, Kanpur, April 5-6, 2014.

- One week Faculty Development Programme on “Modelling, Simulation and Analysis of Engineering Systems”, Department of Computer Science & Engineering, HBTI, Kanpur, October 25-30, 2013.
- National Level Seminar on “Issues and Challenges of Computer Science & Engineering as a discipline”, Department of Computer Science & Engineering, HBTI, Kanpur, March 9, 2013.
- Eighth International Alumni Meet-2012 under the banners of Alumni Association, HBTI, Kanpur, November 27, 2012.
- National Level Seminar INCORD-2012, “Stop Online Piracy Act”, Computer Science & Engineering Department, HBTI, Kanpur, March 3-4, 2012.
- Seventh International Alumni Meet-2011, Alumni Association, HBTI, Kanpur, November 27, 2011.
- National Level Seminar INCORD-2010, “Business Intelligence”, Computer Science & Engineering Department, HBTI, Kanpur, March 21-22, 2010.
- National Level Seminar INCORD-2009, “Next Generation Internet Technologies”, Computer Science & Engineering Department, HBTI, Kanpur, February 21-22, 2009.
- Five day Faculty Development Programme, “Network Administration and Information Security”, under Technical Education Quality Improvement Programme (TEQIP) of World Bank, HBTI, Kanpur, November 05-09, 2008.
- National Level Seminar INCORD-2008, “Multi-Core Architecture”, Computer Science & Engineering Department, HBTI, Kanpur, February 23-24, 2008.
- National Level Seminar INCORD-2007, “High Performance Computing”, Computer Science & Engineering Department, HBTI, Kanpur, February 17-18, 2007.
- National Level Seminar INCORD-2006, “Service Oriented Architecture”, Computer Science & Engineering Department, HBTI, Kanpur, February 18-19, 2006.
- Technical Festival INCORD-2005, “Web Enabled Applications”, Computer Science & Engineering Department, HBTI, Kanpur, February 15-17, 2005.
- National level Seminar WIZCOMP, “Recent Trends in Computing and Applications”, Computer Science & Engineering Department, HBTI, Kanpur, March 20-21, 2004.

## **22. Courses / Workshops/ Conferences Attended**

- Workshop on “Procurement Process and Assessment” organised by SPIU-UP under TEQIP-III on December 04, 2018.
- Workshop on “Outcome Based Accreditation for Undergraduate Engineering Programs” jointly organised by HBTU, Kanpur and UPTTI Kanpur during March 22-23, 2018.

- Workshop on “Startup Incubation and Entrepreneurship”, organised by the SPIU Lucknow under TEQIP-III at Dr. A.P.J. Abdul Kalam Technical University, Lucknow during December 26-27, 2017.
- Workshop on “Industry-Academia Interaction for Strengthening Technical Education” under TEQIP-II, World Bank organised by the PHD Chamber of Commerce and Industry and HBTI, Kanpur on August 30, 2013.
- INTEL sponsored short term course, “Program Optimization for Multi-Core Architectures”, organized by IIT, Kanpur, June 30 to July 05, 2008.
- Short term training programme, “DB2, SQL, Eclipse and Websphere”, organized by IBM India Pvt. Ltd., J.S.S. Academy of Computer Education, NOIDA, March 20-24, 2007.
- IBM Certified Database Associate -- DB2 Universal Database V8.1 Family since March 23, 2007.
- International Workshop on Biometrics, organized by IIT, Kanpur, December 1-2, 2006.
- Four day Workshop on RATIONAL SUITE organized by HBTI, Kanpur under the World Bank assisted Technical Education Quality Improvement Programme of Government of India, December 21-24, 2005.
- Two day Workshop on DB-II organized by IBM, Computer Science & Engineering Department, HBTI, Kanpur, November 25-26, 2005.
- International Workshop on “Recent Trends in Biometric Systems”, organized by IIT, Kanpur, April 15-16, 2005.
- International Conference on Interdisciplinary Mathematics: SCRA2004, organized by Sherwood College of Management, Lucknow, December 27-29, 2004.
- Short term faculty training programme, “LINUX Administration” organized by IIT, Kanpur, December, 2004.
- Short term faculty training programme, “Dot Net Technology using C#”, organized by Microsoft Corporation (India) Pvt. Limited, Babu Banarsi Das National Institute of Technology and Management, Lucknow, July 5-9, 2004.
- National level Seminar, “Emerging Wireless Standards: 802.11, Bluetooth and 3G”, organized by Department of Electronics Engineering and Computer Science & Engineering, HBTI, Kanpur, March 23, 2002.
- Training programme, "Data Warehousing and Data Mining", conducted by IIT Bombay under Instruction Enhancement Programme of Project IMPACT-SSS of DOE, Government of India, July 01- 05, 2000.
- Two day National Seminar, "E-commerce and Web Enabled Applications" organized by Department of Computer Science & Engineering, HBTI, Kanpur, March 27-28, 2000.
- Two day training programme, "ISO 9000 Implementation", HBTI, Kanpur, November 22-23, 1999.
- QIP Summer Course, “Probability Random Processes and Elements of Information Theory”, organized by IIT, Kanpur, June 14-26, 1999.

- Three day in-house training programme, “Total Quality Management in Technical Education”, organized by the ISTE Chapter C. R. State college of Engineering, Murthal (Sonapat), February 20- 23, 1998.
- National Seminar, “Efficient use of Electric Motors, Generators and Drives for Industries and Utilities for the purpose of achieving saving in Energy”, organized by the Institution of Engineers, C. R. State College of Engineering, Murthal (Sonapat), February 16, 1997.
- National Symposium, “Computer Applications in Management & Modern Technological Developments”, organized by the Institution of Engineers, Regional Engineering College Kurukshetra, October 13, 1996.
- AICTE sponsored Induction Training Programme, Academic Staff College, Kurukshetra University, Kurukshetra, July 15, 1996 to August 03, 1996.
- ISTE Summer School, “Artificial Intelligence and Expert Systems”, Regional Engineering College, Hamirpur, July 10-23, 1995.
- ISTE Winter School, “Artificial Intelligence and Expert Systems”, Bengal Engineering College, Howra, January 10-22, 1994.

**(Prof. Raghuraj Singh)**