

Personal Information

Name : Dr Rakesh Kumar
Father's Name : Sri Keshav Prasad
Date of Birth : 8th July, 1967
Category/Caste : OBC (Kurmi Kshatriya)
Nationality : Indian
Address : House No. Ga/IV/3, M.M.M. University of Technology campus,
Gorakhpur-273 008 (UP)
E-mail : rkiitr@gmail.com, rkcs@mmmut.ac.in
Telephone : +918765783776 (CSED)
Mobile : +919235500529(O)
Fax : +91551-2270011
Website : www.mmmut.ac.in

Education

Ph.D. Electronics and Computer Engineering, Indian Institute of Technology, Roorkee,
June 2011
Topic: *Quality of Service Routing and Gateway discovery in Mobile Ad hoc Network*
Supervisors: Prof. A.K Sarje & Prof. Manoj Mishra, CSED, IIT, Roorkee

M.E. SGS Institute of Technology and Science, Indore, January 1994
Specialization: Computer Engineering, 73.4 %

B.E. Computer Engineering, M.M.M. Engineering College, Gorakhpur (UP)
Gorakhpur University, Gorakhpur, July 1990
Discipline: Computer Engineering, First (Hons.), 78.3%

Teaching & Research Experience

1. Professor, Computer Science & Engineering Department, M.M.M. University of Technology, Gorakhpur, December 14, 2015 to till date
2. Associate Professor, Computer Science & Engineering Department, M.M.M. University of Technology, Gorakhpur, December 1, 2013 to December 13, 2015
3. Associate Professor, Computer Science & Engineering Department, M.M.M. Engineering College, Gorakhpur, January 1, 2006 to November 30, 2013
4. Assistant Professor, Computer Science & Engineering Department, M.M.M. Engineering College, Gorakhpur, February 25, 1999 to December 31, 2005
5. Lecturer, Computer Science & Engineering Department, H.B.T.I Kanpur, June 11, 1996 to February 24, 1999
6. Lecturer, Computer Science & Engineering Department, B.I.E.T Jhansi, September 19, 1992 to June 10, 1996

Research Interest

Mobile & Distributed Computing, Mobile Ad hoc Routing, Quality of Service Provisioning, MANET-Internet Integration, Sensor Networks, Network Security, Performance Evaluation, Object-Oriented Programming Languages etc.

Research Publications

Total Research Publications : 98
In Referred Journals : 35
In Conference Proceedings : 55

In Book Chapters : 08

Ph.D. Thesis

Supervised : 4
In Progress : 3

M.Tech. Dissertations

Supervised : 18
In Progress : 2

UGC Projects

Name of PI	Title of the project	Funding Agency	Amount of Grant	Status
Dr. Rakesh Kumar	Design and Development of Efficient Gateway Discovery Protocols in MANET for Internet Access	U.G.C.	Rs 6.80 Lakhs	Completed

Reviewer

- IET Wireless Sensor Systems since January 2017.
- International Journal of Computers and Technology since August 24, 2014.
- International Journal of Innovative Research in Advanced Engineering (IJIRAE) since August 2014.
- International Journal of Symbiosis Centre for Information Technology (SCIT) published annually since 2013.
- International Journal of Computer Science Issues (IJCSI) since 2013.
- International Journal of Computer Theory and Engineering (IJCTE)

Memberships of Professional Bodies

- Fellow of The Institution of Engineers (India) (Membership No. F-115586-1) since 2011.
- Fellow of Institution of Electronics and Telecommunication Engineers (Membership No. F 212106) since 2009.
- Life Member, Indian Society for Technical Education (Membership No. LM 14492) since 1993.
- Life Member, Computer Society of India (Membership No. LM 018507) since 1993.
- Member, ACM.
- Life Member, International Association of Engineers (IAENG), Membership No. 107142.

Awards and Honours

1. Won Best Research Paper Award during International Conference on Information Processing (ICIP-2007) August 10-12, 2007, Bangalore, India
2. Awarded for rendering community services by District Hospital Gorakhpur on "World Blood Donation Day" June 14, 2014 for contributing in Blood Donation by the students and staff of MMM University of Technology Gorakhpur as a Chairman, Medical Committee.
3. Awarded for rendering community services by B. R. D. Medical College, Blood Bank, Gorakhpur on October 31, 2014 for contributing in Blood Donation by the students and staff of MMM University of Technology Gorakhpur as a Chairman, Medical Committee.

Conference/Workshop/Training Organised

1. Chairman, one week TEQIP-II sponsored workshop on advanced embedded system jointly organized by Advance Tech India Pvt. Ltd. and Department of Computer Sc. & Engineering, February 13-17, 2017.
2. Chairman, A short term course on Advances in Computing Technology, Dept. of Computer Science and Engineering, MMMUT, Gorakhpur, India, February 23 – March 01, 2016.
3. Chairman, Two Days Student Workshop on "PHP" organized by Softpro India Computer Technologies (P) Limited, Lucknow and Department of Computer Sc. & Engineering, March 6-7, 2017.

4. Chairman, TEQIP Sponsored Research Workshop on Advances in Computational Technology, (RWACT-2017), March 07, 2017.
5. Chairman, one week TEQIP-II sponsored workshop on image processing using MATLAB jointly organized by Advance Tech India Pvt. Ltd. and Department of Computer Sc. & Engineering, March 2-6,2017.
6. Chairman, one week TEQIP-II sponsored workshop on IoT and Wireless Systems jointly organized by Advance Tech India Pvt. Ltd. and Department of Computer Sc. & Engineering, March 23-27,2017
7. Coordinator, one week short term course on Advances in Computing Technology (ACT-2016) by the CSE Department sponsored by TEQIP July 03-09, 2016.
8. Organizing Secretary, National Conference on "Contemporary Computing and Informatics (NCCI-2015)", May 8-9, 2015, Department of Computer Science and Engineering, M. M. M. University of Technology, Gorakhpur.
9. Member, Organizing Committee National Conference on "Advances in Computer Communication and Embedded Systems (ACCES-II, 2014), March 21-22, 2014, Department of Electronics and Communication Engineering, M. M. M. University of Technology, Gorakhpur.
10. Organizing Secretary, National Conference on "Recent Advances in Database Systems and Applications NCRADSA-2013", May 05-06, 2013, Department of Computer Science and Engineering, M. M. M. Engineering College, Gorakhpur.
11. Organizing Secretary, Seminar on "Recent Trends on Databases", Department of Computer Sc. & Engineering, H.B.T.I. Kanpur U.P on May 05, 1998.

Workshop/STC/Conferences/Seminars Attended

1. Three days workshop on "Performance Improvement for Institutional Development" organized by ESCI Hyderabad at Department of Computer Sc. & Engineering, March 21-23, 2017.
2. One week Short term course on "ICT based FDP on PHP & MySQL" jointly organized by NITTTR, Chandigarh and Department of Computer Sc. & Engineering, February 23 – March 01, 2016.
3. One day workshop on "Green Energy for Sustainable Development: Role of Educational Institutions" organized by MMMUT Gorakhpur, January 21, 2016.
4. Three days workshop on Energy Efficiency on Oil Conservation conducted by Petroleum Conservation Research Association (Ministry of Petroleum & Natural Gas) August 22-24, 2015.
5. One day workshop on "Research Methods in Engineering & Technology" (Sponsored by TEQIP-II) organized by Department of Computer Sc. & Engineering, December 14, 2017.
6. Attended National Conference on "Values and Ethics in Life and Society (NCVELS-14)" (Sponsored by TEQIP-II) February 21-22, 2014.
7. One week STC on "Mathematical Methods in Science and Technology" (Sponsored by TEQIP-II) organized by MMM University of Technology Gorakhpur, December 15-19, 2015.
8. One week short term course (STC) on "Cyber Crime & Forensic Tools" through ICT conducted at Madan Mohan Malviya University of Technology Gorakhpur organized by National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh, January 27-31, 2014.
9. AICTE recognized (TEQIP-II Sponsored) "Effective Teaching & Classroom Communication" program conducted by National Institute of Technical Teachers Training and Research Chandigarh. July 29-August 02, 2013.
10. Participated in two weeks Training Program on "Information Security on Virtual Training Environment (VTE)" as a part of faculty Development Program conducted at National Institute of Electronics & Information Technology (NIELIT) Gorakhpur Centre (U.P.) November 26-December 07, 2012.
11. Attended a workshop on "Ad Hoc and Sensor Networks" in the 2nd International Conference on Wireless Communication and Sensor Network (WCSN) at Indian Institute of Information Technology (IIIT), Allahabad, December 17-19, 2006.
12. AICTE Sponsored Summer School on "Instructional Planning and Delivery" conducted by NITTTR, Chandigarh at M. M. M. Engineering College Gorakhpur, August 25-29, 2008
13. One day Orientation Program conducted by Indira Gandhi National Open University, Regional Centre Lucknow at M. M. M. Engineering College Gorakhpur, July 11, 2002

14. Attended a TEQIP sponsored workshop on “Excellence at Work Place” conducted by Vimarsh Training Services, Bangalore at M.M.M. Engineering College Gorakhpur, February 9-10, 2009.
15. Attended one week short term course on “Web Design and Development” under Quality Improvement Program held at Indian Institute of Technology, Delhi, December 8-12, 2003.
16. Participated in the Four Week Instruction Enhancement Program on “Advance Microprocessors” sponsored by Department of Electronics, World Bank and Swiss Development Co-operation under Project IMPACT and conducted by the Resource Centre IIT Bombay in the Department of Computer Science and Engineering, December 16, 1996 to January 10, 1997
17. Staff Training Program on “Maintenance of 486, Pentium PCs, Peripherals and Networking” Organized at the Resource Centre IIT Bombay, under Project SSS-IMPACT, sponsored by Department of Electronics and Swiss Development Co-operation, conducted in the Department of Computer Science and Engineering, December 14-25, 1998
18. Telematics short course on “Broadband Networks” conducted by the Telematics Group, IIT Kanpur under sponsorship of the nationally coordinated Telematics project, December 2-13, 1996.
19. AICTE (ISTE) sponsored summer school on “Personal, Multimedia, & Broadband Communications and Networks” held in the Department of E & ECE I.I.T. Kharagpur, June 19-30, 1995
20. “Software Training Program” organized at Resource Centre IIT Bombay under Project IMPACT, sponsored by Department of Electronics, World bank and Swiss Development Co-operation and Conducted at the Department of Computer Science and Engineering, March 10-21, 1997
21. Attended a one week QIP course on “Nano Technology- Nano Materials and their Applications” held in the Department of Metallurgical and Materials Engineering at I.I.T. Roorkee, February 06-10, 2006
22. Two days Workshop on “Broadband Technologies” Jointly organized by Department of Electronics & Computer Engineering, I.I.T. Roorkee and Alcatel, December 8-9, 2005
23. Microsoft Tech. Ed 2002, the biggest IT education event in India held at Mumbai under the sponsorship of U.P. Technical University Lucknow U.P, September 23-25, 2002
24. Attended an A.I.C.T.E. short term course on “Database System” held in the department of Computer Science conducted by Technical Teachers Training Institute (TTTI) Chandigarh, December 16-27, 2002
25. Participated in the “Seventh Annual Conference of Vijnana Parisad of India and National Symposium “jointly organized with I.E.T., C.S.J.M. University, Kanpur and H.B.T.I Kanpur during Oct. 24-26, 1997.

Invited Lectures Delivered/Session Chaired

1. Technical Session Chair, National Conference on Advanced Computational Science and Technology (NACT-2016), March 4-5, 2016, sponsored by TEQIP-II, Madan Mohan Malviya University of Technology, Gorakhpur, U.P. India.
2. Technical Session Chair, National Conference on Contemporary Computing and Informatics (NCCI-2015), May 8-9, 2015, sponsored by TEQIP-II, Madan Mohan Malviya University of Technology, Gorakhpur, U.P. India.
3. Technical Session Chair, National Conference on Advances in Computer Communication and Embedded Systems (ACCES-II, 2014), March 21-22, 2014, sponsored by TEQIP-II, Madan Mohan Malviya University of Technology, Gorakhpur, U.P. India.
4. Technical Session Chair, National Conference on Digital Information & Mobile Communication Technology and its Application ((DIMCTAP -2014), April 4-5, 2014, sponsored by TEQIP-II, Madan Mohan Malviya University of Technology, Gorakhpur, U.P. India.
5. Technical Session Chair, National Conference on Recent Advances in Database Systems & Applications (NCRADSA-2013), May 04- 05, 2013, sponsored by TEQIP, Madan Mohan Malviya Engineering College Gorakhpur-U.P.
6. Worked as Resource Person in TEQIP Sponsored Workshop on “Recent Trends in Wireless Networks”, March 27-29, 2009 organized by Department of Computer Science & Engineering at M. M. M. Engineering College, Gorakhpur U.P. India

Additional Responsibilities held in Parent University

1. Head, Computer Science & Engineering Department from July 05, 2016 to July 23, 2018.
2. Chairman, Council of Students Activity (CSA) since 22.05.2017.
3. Member of the committee to scrutinise the draft bye laws of the Skill Development Institute of Uttar Pradesh at Trans Ganga City Unnao by Government of Uttar Pradesh since March 30, 2017
4. Chairman, Medical Committee from July 01, 2013 to May 23,2017.
5. Convener, Post Graduate Program i.e. M. Tech (CSE and IT) and Ph D of Computer Science and Engineering Department from July 01, 2014 to July 07, 2016.
6. Convener, Community Radio Station (CRS) establishment in the University Campus since January 09, 2015.
7. Member, Academia Industry Cell since March 31, 2015.
8. Centre Superintendent, Theory Examination (Session: 2014-15, Even Semester, 2015-16, Odd Semester)
9. Member, Departmental Advisory Group since November 25, 2014.
10. Member of the Committee for the preparation of University Annual Report (December 01, 2013-November 30,2014)
11. Member of the Committee for increasing existing intake of undergraduate programmes for the session 2015-16.
12. O/C, B. Tech (IT) Project, MKECIT, Azamgarh for the session 2014-15.
13. Faculty In-charge, Yoga and Student Counselling club, Council of Student Activities from August 06, 2014 to July 2016.
14. Principal Investigator of a Major Research Project sanctioned by U.G.C for 3 years since 2013.
15. Actively involved in designing course structure/syllabus of B. Tech (CSE)/M. Tech (CSE/IT)/MCA of MMMUT Gorakhpur to be implemented from the session 2014.
16. Principal's/Hon'ble Vice Chancellor's nominee for the evaluation of M. Tech Dissertation (Viva-Voce examination) in Electronics and Communication Engineering department for the session 2012-2013, 2013-14 and 2014-15.
17. Hon'ble Vice Chancellor's nominee for the evaluation of M. Tech Dissertation (Viva-Voce examination) in Electrical Engineering department for the session 2013-14.
18. Members of various committees (for purchase/enquiry etc) formed by Principal/Hon. Vice-Chancellor from time to time.
19. Member of Research & Consultancy Work committee for effective implementation of TEQIP-II since September 28, 2012.
20. Member of Departmental Purchase committee (CSE) many times.
21. External Member of Purchase committee (Applied Sciences) since April 28, 2014.
22. MIS Officer (TEQIP) since February 11, 2013.
23. Member, M. Tech. (CSE) Admission Committee (2011-12, 2014-15).
24. Member, Moderation Committee (2011-12).
25. Discharged routine work of Head of CSE department in his absence/leave many times.
26. Member, Board of Studies till the college was affiliated to DDU Gorakhpur University and there after GBTU Lucknow and also after College upgradation to autonomous/University.
27. Member, Proctorial Board from July 2010 to June 2015.
28. Member, Anti Ragging Squad.
29. Hostel Warden, Saraswati Bhawan, M.M.M. Engineering College Gorakhpur/ MMMUT Gorakhpur from August 2010 till September 2015.
30. Convener, Committee for Planning of Design Centre (Computer & IT Centre) at M. M. M. Engineering College Gorakhpur under TEQIP till December 2004.
31. Member, Web Team of MMM Engineering College Gorakhpur since July 25, 2008.
32. Worked in MMMUT entrance exam 2014 (M. Tech. & Ph D) confidential work.
33. Member of Core Committee Constituted and chaired by Hon'ble Vice Chancellor, U.P. Technical University Lucknow for development of B. Tech. Computer Sc & Engineering, B. Tech. Information Technology and MCA courses (2001-2004).
34. Member Inspection Committee of Uttar Pradesh Technical University Lucknow for granting approval for opening new courses as well as increasing existing intake in private Engineering colleges during 2004 and 2008.

35. Head Examiner, Central Evaluation of Theory Papers for Computer Science & Engineering, Information Technology and M.C.A. Streams at Uttar Pradesh Technical University, Lucknow.
36. Warden, Lake View (New) Hostel, Harcourt Butler Technological Institute Kanpur from November 09, 1998 to February 24, 1999.
37. Hostel Warden, Panchawati Bhawan, Bundelkhand Institute of Engineering and Technology, Jhansi till June 10, 1996.
38. Counsellor of Indira Gandhi National Open University (IGNOU) for BCA and MCA since 1999.
39. Examiner for evaluation of DOEACC Projects for 'O', 'A' and 'B' level courses.
40. O/C In-charge of Computing Lab in the Department.
41. Working as External examiner for the evaluation of M. Tech Dissertation of affiliated Govt. and Private Engineering Colleges of GBTU, Lucknow and M.T.U. Noida.

Academic Interaction with Other Universities/ Organisations

- DDU Gorakhpur University U.P., India
- National Institute of Electronics and Information Technology (NIELIT) Gorakhpur
- Private Engineering Colleges of Uttar Pradesh
- Kamla Nehru Institute of Technology, Sultanpur.
- Harcourt Butler Technological University, Kanpur
- Institute of Engineering & Technology, Lucknow
- Bundelkhand Institute of Engineering & Technology Jhansi
- HNB Garhwal University, Sri Nagar Uttarakhand (A Central University)
- Baba Saheb Bhimrao Ambedkar University, Lucknow (A Central University)
- Integral University, Lucknow

Few Selected Publications

1. Prakash Srivastava, and Rakesh Kumar, "An ANN based QoS aware Adaptive Gateway Discovery Approach for MANET and Infrastructured Networks Integration" Journal of Ad Hoc & Sensor Wireless Networks, *Ad Hoc & Sensor Wireless Networks* 41(3-4): 295-323 (2018) **(Indexed in SCI-E, DBLP and Scimago)**.
2. Prakash Srivastava and Rakesh Kumar, "Recent Advances in QoS Provisioning in Wireless Ad hoc Networks", International Journal of Internet Protocol Technology, Inderscience **(Indexed in SCImago, DBLP and Scopus)** (In press)
3. Vimal Kumar and Rakesh Kumar, "Mitigation of Wormhole Attack using SOA in MANET," Global Journal of Pure and Applied Mathematics, Vol. 13, pp. 431-452, 2017. **(Indexed in SCImago and Scopus)**
4. Vimal Kumar, Rakesh Kumar and Jitendra Singh, "An Efficient and Secure RSA-based Certificateless Signature Scheme for wireless sensor networks", International Journal of Trust Management in Computing and Communications (IJTMCC), Inderscience (In Press). **(Indexed in DBLP)**
5. Prakash Srivastava, and Rakesh Kumar, "An Efficient Proxy Adaptive Gateway Discovery Algorithm based on Quality of Service parameters", International Journal of Communication Networks and Distributed Systems (IJCNDS), Inderscience, Vol. 16, issue 3, pp. 261-280, 2015. **(Indexed in SCImago, DBLP and Scopus)**
6. Prakash Srivastava and Rakesh Kumar, "An Efficient QoS Routing Protocol for Real Time Applications in MANET" International Journal of Business Communication and Networking, IGI Global, Vol. 11, issue 2, pp. 53-75, 2015. **(Indexed in SCImago, ESCI, Scopus and DBLP)**
7. Prakash Srivastava and Rakesh Kumar, "A Fuzzy based Adaptive Gateway Discovery Algorithm for Hybrid Multi-hop Wireless Networks" Journal of Applied Science and Engineering, Tamkang University, Vol. 19, No. 3, pp. 347-360, 2016. **(Indexed in SCImago, Scopus and DBLP)**

8. Prakash Srivastava and Rakesh Kumar, "A New QoS-Aware Routing Protocol for MANET using Artificial Neural Network," CIT Journal of Computing and Information Technology Vol. 24, No. 3, September 2016, pp. 165–179 **(Indexed in SCImago, Scopus and DBLP)**
9. Prakash Srivastava and Rakesh Kumar, "An Optimal Fuzzy Load Balanced Adaptive Gateway Discovery for Ubiquitous Internet Access in MANET", Journal of Information Technology Research, IGI Global (Accepted) **(Indexed in SCImago, Scopus and DBLP)**
10. Rakesh Kumar, Manoj Misra and Anil K. Sarje, "A Review of Quality of Service (QoS) Route Provisioning in Mobile Ad hoc Networks," Journal of Digital Information Management (JDIM), ISSN 0972-7272 (Print), 2007. **(Indexed in SCImago, Scopus and DBLP)**
11. Rakesh Kumar, Manoj Misra and Anil K. Sarje, "A Proactive Load-Aware Gateway Discovery in Ad hoc Networks for Internet Connectivity," International Journal of Computer Networks and Communications (IJCNC), ISSN: 0975-2293 (Print), pp. 120-139, September 2010. **(Indexed in Google Scholar and UGC)**
12. Rakesh Kumar, Anil K. Sarje and Manoj Misra, "An AODV Based QoS Routing Protocol for Delay Sensitive Applications in Mobile Ad hoc Networks," Journal of Digital Information Management (JDIM), ISSN: 0972-7272, pp. 304-315, October 2010 **(Indexed in SCImago, Scopus and DBLP)**
13. Jay Prakash, Rakesh Kumar, J. P. Saini and Mayank Kumar Maurya, "Periodicity Based Gateway Discovery Algorithm in Hybrid Multihop Network", International Review on Computers and Software, Vol. 11, No.6 ,2016, pp. 848-853. **(Indexed in SCImago, Scopus and DBLP)**
14. Vimal Kumar and Rakesh Kumar, "An Optimal Authentication Protocol using Certificateless ID-based Signature in MANET," Book Chapter publication in Springer, CCIS series, Vol.536, pp.110-121, 2015. **(Indexed in SCImago, Scopus and DBLP)**
15. Vimal Kumar and Rakesh Kumar, "A Cooperative Black Hole Node Detection and Mitigation Approach for MANETs," Book Chapter publication in Innovative Security Solutions for Information Technology and Communications, Springer, Lecture Notes in Computer Science (LNCS), Vol.9522, pp.171-183, 2015. **(Indexed in SCImago, Scopus and DBLP)**
16. Vimal Kumar and Rakesh Kumar, "Prevention of Blackhole Attack using Certificateless Signature (CLS) Scheme in MANET," Book Chapter publication in IGI-Global Advances in Information Security, Privacy, and Ethics (AISPE) series, pp.130-150, 2016.

References

- | | |
|---------------------------------|--|
| 1. Dr. A. K. Sarje
Professor | Department of Computer Science and Engineering
IIT Roorkee-247 667, India
sarjefec@iitr.ernet.in
Phone: +911332285654 (O)
+911332285654 ®
+911332270298 ®
Fax No +911332273560
+911332285368 |
| 2. Dr. Manoj Misra
Professor | Department of Computer Science and Engineering
IIT Roorkee-247 667, India
manojfec@iitr.ernet.in , manojfec@gmail.com
Phone: +911332285418 (O)
+911332285642 ®
+919897491864 ®
Fax No +911332273560
+911332285368 |