

NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA

Format for Faculty Data Base

(Hard copy and soft copy both to be submitted to the Dean-Academic duly forwarded by concerned Head of the Department)

1. Name and Date of Birth: **Mayank Dave**, 19-11-1967
2. Department, Present Designation with Date: **Computer Engineering, Associate Prof., 01-07-2007**
3. Highest Qualification (with year and institution): **Ph.D (2002, IIT Roorkee)**
4. Total experience (in years):
 - a. Teaching **21 Years approx.**
 - b. R & D Organization / Industry **NIL**
5. Total Number of Research Publications (excluding paid journals) / Books etc.:
(Provide detailed list separately for complete and last 5 years as Annexure-I)
 - a. Unpaid Journals: (**Enclosed**)
 - i) International **7** (7 in Last Five years)
 - ii) National **7** (6 in Last Five years)
 - b. Conference / Seminar / Symposia etc.:
 1. International – **30** (21 in Last Five years)
 2. National – **18** (5 in Last Five years)
 - c. Books / Monographs / Manuals (including year & publisher)
“Computer Networks” Text Book To come as © 2012
6. Total number of awards / recognition / honours including Membership / Fellowship of Professional Societies etc.: **IEEE, IEEE Computer Society, IETE, Institution of Engineers (I), CSI & ISTE**
(Provide detailed list separately for complete and last 5 years as Annexure-II)
7. Number of Patents Awarded / Filed: **NIL**
(Provide detailed list separately for complete and last 5 years as Annexure-III)
8. Number of Ph. D. theses supervised / co-supervised:
(Provide detailed list separately for complete and last 5 years as Annexure-IV)
 - a. Completed: **Awarded 04**, Submitted 1 (Last Five years only)
 - b. In progress: **05**

9. Number of M. Tech dissertations (supervised / in progress): **Enclosed**
(Provide detailed list separately for complete and last 5 years as Annexure-V)
 - a. Completed: **4 (Last Five years only)**
 - b. In progress: **5**
10. Details of Sponsored R & D Projects in Tabular Form: NIL
(Details for last 5 years with funding agency, duration, and amount)
11. Academic /Administrative Contributions at Department/ Institute Level: **Enclosed**
(Provide detailed list separately for complete and last 5 years as Annexure-VI)
12. Areas of Current Interest, Research Activities, and Future Plans of Academic and Research activities: **Enclosed**
(Provide details of each as Annexure-VII)
13. Research collaboration with brief outcome (within country and abroad):
(Provide details as Annexure-VIII): **Enclosed**
14. Any other information: NIL

(Signature of the Head of the Department with Seal)

Date:

P. S.: Incomplete information shall not be accepted.

Annexure I

5a

International Journals (Published Unpaid) Last FIVE years

1. Shashi Bhushan, M. Dave, R.B. Patel, “Reducing Network Overhead with Common Junction Methodology”, International Journal on Mobile Computing and Multimedia Communications (IJMCMC), IGI Global, vol. 3, issue 3, pp. 51-61, 2011, ISSN:1937-9412 doi:10.4018/jmcmc.2011070104.
2. R. K. Aggarwal and M. Dave, “Acoustic Modeling Problem for Automatic Speech Recognition System: Conventional Methods (Part I)”, International Journal of Speech Technology, Springer Verlag, doi:10.1007/s10772-011-9108-2.
3. R. K. Aggarwal and M. Dave, “Acoustic Modeling Problem for Automatic Speech Recognition System: Advances and Refinements (Part II)”, International Journal of Speech Technology, Springer Verlag, doi:10.1007/s10772-011-9106-4.
4. R. K. Aggarwal and M. Dave, “Performance Evaluation of Sequentially Combined Heterogeneous Feature Streams for Hindi Speech Recognition System”, Telecommunication System Journal (Special issue on Signal Processing Application in Human Computer Interaction), Springer Verlag, doi:10.1007/s11235-011-9623-0.
5. Rajesh K. Bhatia, Mayank Dave, R.C. Joshi, Ant Colony Based Rule Generation for Reusable Software Component Retrieval, ACM SIGSOFT Software Engineering Notes, vol. 35, no. 2, March 2010, doi:10.1145/1734103.1734110.
6. Sanjeev Manchanda, SB Singh and Mayank Dave, “Customized and Secure Image Steganography through Random Numbers Logic”, Signal Processing: An International Journal, Volume 1, Issue 1, pp. 1-16, 2008.
7. Mukhdeep Singh, SB Singh and Mayank Dave, “Congestion Control in Computer Networks,” International Journal Ultra Scientist of Physical Sciences, vol. 20, no. 2(M), ISSN 0970-9150, May-August 2008.

National Journals Last FIVE years

1. Rajesh Bhatia, Mayank Dave, R. C. Joshi, “Retrieval System for Distributed Component Repositories,” Defence Bulletin of Information Technology, DRDO, Delhi, September 2007.
2. A K Verma, Mayank Dave and R C Joshi, “A Novel Proposal using Two-tier Approach for Routing in Mobile Ad Hoc Networks (MANETs)” National J. of Punjab Academy of Sciences, vol. 3 (1&2), pp. 50-55, 2006.
3. A K Verma, Mayank Dave and R C Joshi, “Applying Distributive Computing in Mobile Adhoc Networks (MANETs),” National J. of Punjab Academy of Sciences, vol. 3 (1&2), pp. 90-93, 2006.

4. Charu Gandhi and Mayank Dave, "A Review of Security Issues in Mobile Adhoc Networks," IETE Technical Review, vol. 23, No. 6, pp. 335-344, Nov.-Dec. 2006.
5. A K Verma, Mayank Dave and R C Joshi, "Superior Educational Environment using Wireless Networks," The Indian Journal of Technical Education, vol. 29, no. 4, pp. 69-72, October-December, 2006.
6. Mayank Dave and R.C. Joshi, "On Performance of Pre-computation of Quality of Service Routes," Journal of the Institution of Engineers (India), vol. 84, pp. 20-24, May 2006.

5b

International Conferences (Last FIVE years)

1. Rakesh Kumar, Mayank Dave, "A Novel Approach Information Dissemination in Vehicular Networks", International Conference on High Performance Architecture and Grid Computing (HPAGC-2011) July 19-20, 2011, Chitkara University, Punjab, Indexed by CCIS, Springer, 2011, volume 169, part 3, pp. 548-556, doi: 10.1007/978-3-642-22577-2_73.
2. Sanjeev Gupta, Mayank Dave, "Real Time Approach For Data Placement Using Distributed Cellular Framework Based Clustering For Large Scale Sensor Networks", 2011 2nd World Congress on Computer Science and Information Engineering (CSIE2011), June 17-19, 2011, **Changchun, China.**
3. Shashi Bhushan, M. Dave, R.B. Patel, "Hierarchical Data Distribution Scheme for Peer-to-Peer Networks", International Conference on Methods and Models in Science and Technology (ICM2ST-10), 25-26 Dec. 2010, Chandigarh, India, Indexed in AIP Conference Proceedings 1324, pp. 324-336, ISSN 0094-243X.
4. R.K. Aggarwal and M. Dave, "Tied Mixture Modeling in Hindi Speech Recognition System", Communication in Computer and Information Science (ICT, CCIS Springer), vol. 101, part 3, pp. 514-519, Springer-Verlag Berlin Heidelberg, 2010, DOI: 10.1007/978-3-642-15766-0_86.
5. R.K. Aggarwal and M. Dave, "Discriminative Techniques for Hindi Speech Recognition System", Communication in Computer and Information Science (Information Systems for Indian Languages), vol. 139, pp. 261-266, Springer-Verlag Berlin Heidelberg, 2011.
6. Shashi Bhushan, M. Dave, R.B. Patel, "Adaptive Load Balancing within Replicated Databases over Peer-to-Peer Networks", International Conference on Mathematics and Soft Computing (Applications in Engineering), pp. 44-47, December 4-5, 2010, Panipat, India.
7. Nitin Goyal, Mayank Dave, "Data Aggregation Algorithm to Improve Performance of SPEED Routing Protocol in Wireless Sensor Network", International Conference on Mathematics and Soft Computing (Applications in Engineering), pp. 143-145, December 4-5, 2010, Panipat, India.

8. R.K. Aggarwal and M. Dave, "An Empirical Approach for Optimization of Acoustic Models in Hindi Speech Recognition Systems", 8th International Conference on Natural Language Processing (ICON-2010), 8-11 December, IIT Kharagpur, India.
9. R.K. Aggarwal and M. Dave, "Implementing a Speech Recognition System Interface for Indian Languages", Proceedings of the IJCNLP-08 Workshop on NLP for Less Privileged languages, Jan 11, 2008, IIIT Hyderabad, India. http://www.aclweb.org/anthology-new/I/I08/I08_3017.pdf
10. R.K. Aggarwal and M. Dave, "Speech Recognition Technology for Remote Control to Protect Environment from Electromagnetic Radiation", International Conference on Changing Environmental Trends and Sustainable Development, Feb 9-11, 2009, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India.
11. R.K. Aggarwal and M. Dave, "Gaussian Evaluation of Acoustic Signals in Hindi Speech Recognition System", International Conference on Aerospace Electronics, Communication and Instrumentation, ASECI-2010, Jan 6-7, 2010, V.R.S. Engineering College, Vijaywada, India.
12. R.K. Aggarwal, Mayank Dave, "Fitness Evaluation of Gaussian Mixtures in Hindi Speech Recognition System," 2010 First IEEE International Conference on Integrated Intelligent Computing (ICIIC), pp. 177-183, August 2010, ISBN: 978-0-7695-4152-5, doi: 10.1109/ICIIC.2010.13.
13. Shashi Bhushan, M. Dave, and R.B. Patel, "CJM: A Technique to Reduce Network Traffic in P2P Systems", 2010 IEEE International Conference on Advances in Computer Engineering (ACE 2010), pp. 306-308, June 20-21, 2010, Bangalore, India, doi:10.1109/ACE.2010.55.
14. Sanjeev Gupta, Mayank Dave, "Distributed clustering approach for wireless sensor network based cellular data placement model", IEEE 2nd International Advance Computing Conference (IEEE IACC 2010), 19-20th February, 2010, Thapar University, Patiala, India.
15. Sanjeev Gupta and Mayank Dave, "Framework of a Real Time Distributed Model for Disaster Management using Wireless Sensor Networks", International Conference on Systemics, Cybernetics and Informatics (ICSI-2010), January 27-30, 2010, Pentagram, Hyderabad, India.
16. Manoj Kumar Gupta, Mayank Dave, Archana Purwar, "Simulation of Power Efficient Region Based Approach for Query Processing in Wireless Sensor Networks", 2009 Second International Conference on Emerging Trends in Engineering & Technology (ICETET 2009), Nagpur, India, pp.1104-1109, December 16-18, 2009, doi: 10.1109/ICETET.2009.202.
17. Amita Rani, Mayank Dave, "Weighted load balanced routing protocol for MANET," Proceedings of 16th IEEE International Conference on Networks, ICON'08, New Delhi, India, pp. 1-6, Dec 13-14, 2008, doi: 10.1109/ICON.2008.4772597.

18. Sanjeev Manchanda, Mayank Dave and S. B. Singh, "Pseudo Random Numbers Based Methods for Customized and Secure Image Steganography", IRMA International Conference, **Vancouver, Canada**, May 19-23, 2007.
19. A K Verma, Mayank Dave and R C Joshi, "Securing Adhoc Networks with DNA Cryptography" at IEEE International conference on Computers and Devices for Communication (CODEC06), pp. 781-786, Dec. 18-20, 2006.
20. A K Verma, Mayank Dave and R C Joshi, "Adhoc Networks – A Novel solution for Value Creation in Modern Economy for NextGen Enterprise," South-East Asian Regional Computer Confederation (SEARCC'06), pp. 122-131, Oct. 10-11,2006, **Colombo, Sri Lanka**.
21. Rajesh Bhatia, Mayank Dave and R.C. Joshi, "Retrieval of Most Relevant Reusable Component using Genetic Algorithms," International Conference on Software Engineering Research and Practice, SERP'06, June 26-29, 2006, **Las Vegas, USA**.

National Conferences (Last FIVE years)

1. Sanjay Kumar, Mayank Dave, Surender Dahiya, "A Survey of QoS-Aware Routing Protocols for Wireless Sensor Networks", Proceedings of National Conference on Research Development Trends in ICT, University of Lucknow, Uttar Pradesh, pp. 102-107, February 12-13, 2010.
2. Rakesh Kumar, Mayank Dave, "SAODV, Watchdog and Pathrater as Security Mechanisms for VANET", Proceedings of National Conference on Research Development Trends in ICT, University of Lucknow, Uttar Pradesh, pp. 108-113, February 12-13, 2010.
3. Amita Rani and Mayank Dave, "Improving MANETs performance by Load Balanced Routing", Proceedings of National Conference, Applications of Intelligent Systems, AIS'08, pp. 253-256, 2008.
4. Amita Rani and Mayank Dave, "Modifying AODV to Introduce Load Balancing Effect", Proc. of National Conference on Methods and Models in Computing, NCM2C 2007, JNU, New Delhi, December 2007.
5. Amita Rani, Mayank Dave, "Review of Load Balanced Ad Hoc Routing Protocols", Proceedings of National Conference Information and Communication Techniques-Recent Advances and Applications, JMIT, Radaur, Feb. 2006, 340-344.

Annexure II

Membership of Professional Societies

1. **Member IEEE** – Member (No. 40280324 **Joined 1998**)
2. **Member IEEE Computer Society** – Same as above
3. **Member IETE** – Member Life (No. M104081)
4. **Member IE (India)** – Associate Member Life (AM 82648/3) Division CS
5. **Member CSI** – Associate Life (No. 01078564)
6. **Member ISTE** – Member Life (No. LM 16766)

Annexure IV

Completed/Awarded Ph.Ds

1. Topic: Design and Development of a Routing Protocol for Mobile Ad hoc Networks (MANET)
Candidate: Anil Kumar Verma (2007), Co-supervisor: Dr. R.C. Joshi
2. Topic: Design and Development of a Reusable Software Components Repository
Candidate: Rajesh Kumar (2009), Co-supervisor: Dr. R.C. Joshi
3. Topic: Load Balanced Routing in Mobile Ad Hoc Networks
Candidate: Amita Rani (2010)
4. Topic: Knowledge Discovery in Databases
Candidate: Sanjeev Manchanda (2010), Co-supervisor: Dr. S.B. Singh
5. Topic: Real Time Distributed Approach for Data Placement in Wireless Sensor Networks
Candidate: Sanjeev Kumar Gupta (2010) (Submitted on August 5, 2010)

Undergoing PhD work at NITK

1. Shashi Bhushan (Reg. No.: PHD 1095/06-CO) – Research Topic: Real Time Information Dissemination and Management in P2P Networks (Co-guide Dr. R.B. Patel, Prof. & Head, Dept. of CSE, DCRUST, Murthal, Sonapat, Haryana)
2. Rajesh Kumar Aggarwal (Reg. No.: PHD 1142/07-CO) – Research Topic: Speech Recognition Techniques for Hindi
3. Rakesh Kumar (Reg. No.: PHD 1271/09-CO) – Research Topic: Data Aggregation in Vehicular Networks
4. Shailja Sharma (Reg. No.: PHD 1286/10 –MCA) – Research Topic: Framework of Semantic Web Service Discovery (Co-guide Dr. J.S. Lather, NIT Kurukshetra)
5. Rajwinder Singh (Reg. No.: PHD 1364/11-CO) – Research Topic: Fault Tolerant Approaches for Mobile Agents

Annexure V

M. Tech. Thesis (Completed in last 5 years) at NITK

Sr. No.	Candidate Name	Candidate Roll no.	Thesis Title	Year
1.	Jayasvi Battu	209104	Concealed Data Aggregation in VANETs	2011
2.	Nisha Panwar	209105	Stability Based Routing Scheme for Vehicular Networks	2011
3.	Prashant Kumar Singh	209126	Issues in OSPF for Its Implementation Over MANETs	2011
4.	Sharad Gupta	209117	A Low Latency Handoff Scheme for Mobile IPv6	2011

M.Tech Thesis in Progress

Three more M.Tech theses are currently in progress in the broad area of

- Mobile Ad hoc and Wireless Sensor Networks
- Hybrid Wireless Networks,
- Vehicular Ad hoc Networks,
- Mobile IPv6

Exact topics are yet not finalized.

Annexure VI

Academic Contribution (Last 5 years)

- **Main courses taught**

- **P.G.**

- Computer Networks, Design and Analysis of Algorithms, Statistical Models for Computer Science, Object Oriented Programming and Design.

- **U.G.**

- Data Structures, Software Engineering, Multiprocessing Systems, Database Systems, Computer Networks, UNIX and Linux Programming

- Principal Investigator for a project “Modernization of Department Computer Center” under MODROBS scheme of MHRD (2003-05): **Grant Rs. 15 lacs.**

- Co-Principal Investigator for Information Security Education and Awareness (ISEA) project of Department of Information Technology, Government of India, 2006-2012

- Awarded Research Project “Design and Development of Routing Protocols for Mobile Ad hoc Networks” under R&D scheme of MHRD (2003-05): Grant Rs. 12 lacs

- **Proficient in:** Linux, UNIX many of its tools, MS-Windows and C, C++, Java programming environments, Web Technologies

- Specialized training for IBM DB2 and Rational Rose Case tools with hands on experience

- Also obtained training for Novell Netware, IOS and Sun Solaris operating systems and Network Design from Cisco.

- Published approximately 65 research papers in various International / National Journals and International / National Conferences.

- **One team of students guided by Dr. Mayank Dave** code named “Apxicos” finished in top 20 of IBM The Great Mind Challenge 2010 (TGMC’10) of IBM Academic Initiative where in the final round where 396 teams made to the final presentations after initial India wide registrations of 1.25 lakh

- **One team of students guided by Dr. Mayank Dave developed** a web application cum IVRS based software, designed in accordance with the **United Nations Millennium Development Goal** to enhance the Maternal Health and reduce the Maternal and Infant Mortality rate and presented it as code named ADSORB in **Microsoft Imagine Cup 2010** (software design category, Team name **EUDAEMONIA**). Amongst the 86000+ of students that initially participated in the event the team selected among **top 120** teams across the nation and only from the region.

- Completed successfully project **“Software for Analysis of Academic Autonomies of Participating Institutes (PIs) in Technical Education Quality Improvement Programme (TEQIP)”** in 2006. Software was web enabled and was used by 150 PIs simultaneously. Project **awarded by MHRD and NPIU**.
The project with Dr. Mayank Dave as PI met the target of completing and launching software in record 7 days.
- Coordinator, Short Term Training Programme (STTP) on Enterprise Computing using Java, TEQIP Sponsored, June 11-22, 2007
- Coordinator, Summer School on Distributed Systems and Networks, MHRD Sponsored, June 23-July 4, 2008
- Reviewer for following International Journals
 1. **International Journal of Automation and Computing (Springer)**
 2. **Security and Communication Networks (Wiley)**
- Attended and presented a paper in 2011 2nd World Congress on Computer Science and Information Engineering held during June 17-19, 2011 at Changchun, China.
- Attended and presented a paper in IEEE 2nd International Advance Computing Conference (IEEE IACC 2010), February 19-20, 2010, Thapar University, Patiala. Also chaired a session.
- Attended and presented a paper in National Conference on Research Development Trends in ICT held during February 12-13, 2010 at University of Lucknow, Uttar Pradesh. Also chaired a session.
- Attended and presented a paper at XXVIII WASET International Conference on Computer, Electrical and Systems Science and Engineering (CESSE 2008) held during April 25-27, 2008 at Rome, Italy.
- Attended and presented a paper at International Conference on Software Engineering Research and Practice (SERP'06) held during June 26-29, 2006 at Las Vegas, USA. Also Chaired a Session in the conference.
- **Some Recent Keynote Addresses / Invited Talks** (Talk Topic in quotes)
 1. “Security Issues in Computer Networks” at National Workshop on Recent Trends in Communication Engineering and Network Security May 21, 2011 at NC Institute of Technology, Israna, Panipat, Haryana.
 2. “Embedded OS in ICT”, UGC Sponsored National Seminar on Prospects of IT:2020 on September 15, 2010 at Hindu Girls College, Jagadhri, Haryana.
 3. “Security Issues in Computer Networks” National Seminar on Role of ICT in Distance Education on August 9, 2010 at Department of Distance Education, Punjabi University Patiala, Punjab.
 4. “Embedded Systems in Wireless Sensor Networks” at AICTE Sponsored Staff Development Program on Technologies in VLSI & Embedded System on Feb 3, 2010 at Vidya College of Engineering, Meerut, U.P.
 5. “NS2 Basics, Installation and Quality of Service Routing” at AICTE Sponsored Staff Development Program on Mobile Computing and Wireless Networks (MCWN-2010) on Jan 24, 2010 at Meerut Institute of Engineering and Technology, Meerut, U.P.

6. “Link State Routing and Optimized Link State Routing” at AICTE Sponsored Staff Development Program on Mobile Computing and Wireless Networks (MCWN-2010) on Jan 23, 2010 at Meerut Institute of Engineering and Technology, Meerut, U.P.
 7. “QoS in MANETS” at Faculty Development Program on Next Generation Wireless Network on July 28, 2010 at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
 8. Security Challenges in Mobile Ad hoc and Wireless Sensor Networks” at National Workshop on Network Security (NWNS-2K9) on April 18, 2009 at Shri Krishan Institute Engineering and Technology, Kurukshetra, Haryana.
 9. “Security in Computer Networking” at UGC Sponsored National Seminar on Opportunities in IT-Sector – Challenges and Solutions, on March 3, 2009 at Sanatan Dharma College (Lahore) Ambala Cantt, Haryana.
 10. “Routing in MANETS” at MHRD/AICTE Sponsored Staff Development Programme on Mobile Computing and Wireless Networks on January 9, 2009 at NITTTR Chandigarh.
 11. “Security and Data Protection” Extension Lecture on October 20, 2007 at Kurukshetra Institute of Technology & Management (KITM), Kurukshetra, Haryana.
 12. “Challenges in Routing Protocol Design for MANETS” at AICTE Sponsored SDP on Wireless Communications and Mobile Computing on February 13, 2006 at NITTTR, Chandigarh.
- Delivered expert lectures on different topics in several institutes including IIT Roorkee (Erstwhile University of Roorkee); ABV IIITM Gwalior, National Institute of Technology, Jaipur, National Institute of Technology, Hamirpur (H.P.) and ERD&C Noida – M.Tech (I.T.) programme of Govt. of India at IIT, Roorkee, Kurukshetra University
 - Attended several short term/specialized courses and training in the areas of Computer Engineering at Premier Institutions of country
 - Delivered Radio Lecture on topic Role of Computer Networks under Gyan Sanchar series broadcast from All India Radio Kurukshetra in January 2010
 - Member Senate, NIT Kurukshetra (2004-2007)
 - Evaluation of Ph.D and M.Tech thesis for various institutions
 - Developed new department in brand new building from scratch. Established several laboratories during 2004-2007. Prominent are
 1. **Thin Client laboratory with 30 thin clients, and one rack server**
 2. **Mobile Computing Laboratory (Rs. 20 lacs)**
Equipment purchased includes
 - Wi-Fi Desktop PCs (12 Nos.)
 - Notebook Computers (4 Nos.)
 - Access Points (4 Nos.)
 - L2 Switches 24 ports 10/100 Managed (4 Nos.)
 - PDA (HP x37xx – One Nos.)

Administrative Contribution (Last 5 years)

- Chairman (HOD) of the Department of Computer Engineering two times for three years from November 2004 to October 2007 and also from December, 2009 for two years.
- HOD of Department of Computer Applications for two years from January 2010.
- Secretary, All India NIT MCA Common Entrance Test 2010 (NIMCET10) conducted by NIT Kurukshetra. Responsible for overall planning, confidential work, paper setting, printing, conduct, supervision, result preparation, counseling and admission to MCA programme being run at all NITs.
- Member, Technical Committee of NIMCET2011 coordinated by MANIT Bhopal
- About 21 years experience in academic and administrative affairs in the department. Acted in various capacities as Prof.-in-charge (Computer Lab.), Prof.-in-charge (Department Library) etc.
- Warden, Fanibhushan Bhawan (Hostel No. 6), NIT Kurukshetra from January, 2009 till May 2011
- Centre Superintendent for Exam Centre No. 3 during May/June 2009 Examinations
- Institute Member **INDEST** Consortium of Libraries MHRD, Govt. of India (2003-2006)
- Member of Institute Library Committee (2003-2006)
- Member of Library Automation Committee
- Centre Superintendent for Examination Centre No. 3 during May/June 2009
- Coordinator of Institute's Central Purchase Committees (CPC) – Purchased infrastructure such as Desktop Computers, Laptops, Printers, MFDs, Scanners, Projectors. Also involved in purchase of Photocopiers, Servers, Campus LAN equipments (active and passive), furniture, fixtures and other furnishing, ERP software, other software, library e-books, online journals etc.
- Coordinator TCS-NITK Software Engineering Learning Programme
- Coordinator Short Term Training Programme on Enterprise Computing Latest Trends and Applications (ECLTA), June 18-22, 2007 at NIT Kurukshetra
- Departmental coordinator for TEQIP (Technical Education Quality Improvement Programme) project of Government of India and the World Bank
- Computerization support in preparing proposal of NIT Kurukshetra under TEQIP I scheme **including proposal for Campus Wide Networking**
- Coordinated Two programmes on Computer Awareness as part of Community Services under TEQIP scheme during 2006
- Instrumental in providing Notebooks on concessional rates to students of NIT Kurukshetra from vendors like HP, Lenovo, Dell, HCL in the years 2006 and 2007.
- Anti-ragging duties and other disciplinary activities at different times.

Annexure VII

Areas of Interest

- Current areas of interest include Computer Networks – Quality of Service Issues, Routing, Mobile Agents, Grid Computing Systems, Mobile Ad hoc and Wireless Sensor Networks, Vehicular Networks, Security in Networks
- Presently teaching advanced topic of Mobile Adhoc and Wireless Sensor Networks to M.Tech. Developing MS PowerPoint presentation slides to deliver contents to students. Also informing students about various research issues in this area and encouraging them to undertake interest in conducting further research. Using multimedia technologies for content delivery
- Students of B.Tech have immense potential and they are being guided for selecting institutes of higher learning and internship abroad for further research and development
- Students are also encouraged to participate in events that develop their skills in programming and technology such as IBM The Great Mind Challenge (TGMC), ACM Asia Programming Contest (ACM APC), Microsoft Imagine Cup etc.

Annexure VIII

Collaborated with nearby institutes for guiding, and evaluating M.Tech and PhD progress, mid-term evaluation, thesis evaluation for institutes such as IIT Roorkee, NIT Hamirpur, Thapar University Patiala, Punjabi University Patiala, Kurukshetra University, Banasthali Vidyapeeth Rajasthan etc.

Project reports are under preparation for sponsored research projects in the area of MANET/VANET