

# Dr. Parul Tomar

Associate Professor at Department of Computer Engineering, J C Bose University of Science & Technology, YMCA, Faridabad

**Date of Birth:** 16.04.1979  
**Nationality:** Indian  
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## Academic Qualification

- Ph.D.(Computer Engineering), Kurukshetra University, Kurukshetra in 2012, Topic: "Simulation of QoS for adhoc Network"
- M.Tech.(Computer Engineering), Maharshi Dayanand University, Rohtak in 2006
- MCA , Indira Gandhi National Open University, 2002
- MBA, Symbiosis Pune, 2004

## Total Experience:

- Academics: 19
- Industry: 03

## Awards:

- AICTE's National Lilavati Awards 2021-22 on Women Empowerment under the Sub-Theme 'Women Innovators' (Rural/Urban).
- Shortlisted as one of the member out of 200 faculty across the country for UKIERI Leadership programme-2019 (A collaborative initiative by Govt. of UK and India).
- Got position in top 20 out of more than 2500 teams in Mega Online Challenge- 2020 SAMADHAN, organized by Ministry of Human Resource and Development, MHRD, at National level.
- Best Paper award for "Anonymization Algorithms for Maintaining Privacy in EHR", NIET International Conference & Summit -2023(NICSET), Noida Institute of Engineering and Technology, Greater Noida, June 23-24 2023.
- Research award for publications in prestigious journal.

## Patents

- Design Patent for Wrist Watch with Design No: 333531-001 with Registration Date: 24th Sept 2020 and Issue date: 30th June 2021.
- U K Design Patent for Artificial Intelligence Based Device for Face Detection and Recognition with Design Number: 6292962 Grant Date: 06<sup>th</sup> July 2023

## Research Project

- Under the Scheme 'Support for Entrepreneurial and Managerial Development of MSMEs through Incubators' for GoI assistance-reg. for project entitled "Sense and monitor various gases (INDUSTRY POLLUTION)", 2021, Rs 15,00,000.
- Prototype development of Automatic Refillable Hand Sanitizing wrist Band from NIF, 2020, Rs 35,000
- Rajiv Saha, Parul Tomar, "Preparation of blueprint for development of web based University Management", 2016, Rs 2,00,000
- Parul Tomar, Sapna Gambhir, "Digital YMCA", Android based Mobile Application for YMCAUST, 2016, Rs 1,93,000

## Consultancy

- Design and Development of University Website of Shri Krishna Ayush University, Kurukshetra, 2020, Rs 2,20,000

## Grants

- Rs 21, 88,234 from AICTE under Skill and Personality Development Scheme.

## Invited Talk/ Lecture

1. Lecture on Adhoc Networks at International Institute of Engineering & Technology Samani, Kurukshetra.
2. Lecture on MATLAB in FDP, "Neural Networks using MATLAB", held at YMCAUST Faridabad, June 1-5, 2015.
3. Lecture on "Adhoc Network and IoT" at Pt. L.R. College of Technology on 09.02.2018.
4. Lecture on "CO PO Mapping" in the workshop on Awareness on filling SAR for NBA accreditation held at Dr. Ambedkar Institute of Technology, Bangalore on 22.10.18.
5. Lecture on "Design Thinking and Innovation", Maharaja Agrasen Institute of Technology, Rohini, Delhi 20.03.2021
6. Lecture on "Innovation Protection through IPR", J C Boise University of Science & Technology, YMCA, 15.12.2021
7. Lecture on "Design Thinking and Critical Thinking and Innovation Design", Inderprastha Engineering College, 05.02.2022
8. Lecture on "Innovation by Design Thinking", Government Polytechnic Jhajjar, 14.02.2022
9. Lecture on "Intellectual Property Rights & IP Management for Start-ups", Inderprastha Engineering College, 11.03.2022
10. Lecture on "NBA Prequalifier for Accreditation Process", Govt Polytechnic Sonapat, 28.04.2022
11. Lecture on "Data Mining: Concepts and Techniques", Greater Noida Institute of Technology, Greater Noida, UP, 24 March 2023
12. Seminar on "Design Thinking: A Paradigm", Global Institute of Technology and Management, Gurugram, 14 Sept 2022
13. Session on "Addressing and Identification of IoT Nodes", Aalim Muhammed Salegh College of Engineering, IAF-Avadi, Chennai, 10 Dec 2022
14. Lecture on "IPR: Protection for Innovation", Aalim Muhammed Salegh College of Engineering, IAF-Avadi, Chennai, 17 Jan 2022.

## Book Publication

QoS Based Routing in MANET, LAP LAMBERT Academic Publishing (May 29, 2014) , ISBN-13: 978-3659494673

## Book Chapter

1. Bhawna Wadhwa, Parul Tomar "Security and Privacy challenges in Big Data", Lecture Notes in Networks and Systems, 2023, 479, pp. 821–837, Proceedings of Third Doctoral Symposium on Computational Intelligence, 2023, Volume 479, ISBN : 978-981-19-3147-5)
2. Cognitive Radio Wireless Sensor Networks: A Survey , Joon, R., Tomar, P., Proceedings - 2022 5th International Conference on Computational Intelligence and Communication Technologies, CCICT 2022, 2022, pp. 216–22, ISBN: 978-1-6654-7224-1
3. Comparative Study of Machine Learning Techniques for Intrusion Detection Systems, Singh, P.B., Tomar, P., Kathuria, M., 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing, COM-IT-CON 2022, 2022, pp. 274–283, DOI: 10.1109/COM-IT-CON54601.2022
4. Handling Security Issues in Fog Computing Environment Using Blowfish Encryption Algorithm, Gambhir, S., Tomar, P., Sharma, P. Lecture Notes in Electrical Engineering(Springer), 2022, 841, pp. 331–339, Electronic ISSN: 1876-1119, Print ISSN: 1876-1100
5. Akshi Goswami, Parul Tomar, Sapna Gambhir "Design of Vehicle Pollution Detection System using IoT" , Computational Intelligence in Analytics and Information Systems, Volume 2: Advances in Digital Transformation, Selected Papers from CIAIS-2021, eBook ISBN:9781003332367, eBook Published 8 September 2023, Pub. Location New York, (Taylor and Francis)
6. Sapna Gambhir, Parul Tomar, Parkhi Jain "Fog Computing: The Next Generation Computing Paradigm", Computational Intelligence in Analytics and Information Systems, Volume 2: Advances in Digital Transformation, Selected Papers from CIAIS-2021, eBook ISBN:9781003332367, eBook Published 8 September 2023, Pub. Location New York, (Taylor and Francis)

## Research Paper

1. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "A Novel Approach for QoS in MANET (NQM)", Journal of Computing, Volume 2, Issue 12, January 2010, pp. 119-123.
2. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "A Comparative study for Secure Routing in MANET", International Journal of Computer Applications, Volume 4-No 5, July 2010, pp 17-22.
3. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "QoS Enabled Power Aware Routing Protocol (QEPAR)", International Journal of Engineering Science and Technology, Volume 2 Issue 9, September 2010, pp 4880-4885.
4. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "Cluster Based QoS Routing Protocol for MANET", International Journal of Computer Theory and Engineering, Volume 2, No 5, October 2010, pp. 783-786.
5. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "Framework for Location based Power aware routing in MANET", International Journal of Computer Science Issues, Volume 8, Issue 3, MAY 2011, pp. 461-466.
6. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "Routing in Mobile Ad hoc Network: A Review", International Journal of Advances in Computing and Information Technology, Volume 1, Issue 1, June 2011, pp.106-115.
7. Dr. P. K. Suri, Dr. M. K. Soni, and Parul Tomar, "Stable Path Routing Protocol based on Power Awareness", International Journal of Scientific & Engineering Research, Volume 2, Issue 8, August 2011, pp. 1-4.

8. Dr. Sapna Gambhir, Parul Tomar, "Optimal Path Selection Routing Protocol in Manets", International Journal of Scientific & Engineering Research, Volume 3, Issue 7, July 2012, pp-81-86.
9. Parul Tomar, Vishal Saini, "Efficient Routing Protocol in MANET", International Journal of Computer Networks and Wireless Communication, Volume 2, No. 7, AUGUST 2012, pp. 500-503.
10. Parul Tomar "Power Aware Location Aided Routing", International Journal of Engineering Trends and Technology, Volume 4, Issue 10, October 2013, pp. 4571-4573.
11. Parul Tomar, "Routing Protocol in Mobile Ad hoc Network" , International Journal of Computer Information Systems, Volume 7, Num 3, October 2013 .
12. Parul Tomar , "Stability Aware Routing in MANET", Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering (IJIREEICE), Volume 1, Issue 8, pp. 335-338, Nov. 2013.
13. Parul Tomar, Megha, "An overview of distributed databases," International Journal of Information and Computation Technology, Volume 4, Number 2, pp. 207-214, Feb 2014 .
14. Parul Tomar, Manjit Singh , " A Survey of Security Attacks in Mobile Adhoc Networks", International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 4, Issue 2, pp. 32-35, February 2014
15. Parul Tomar, Mohit Bhardwaj , "A Review on Deadlock Detection in Distributed Database", Advances in Computer Science and Information Technology", vol 2, no 8, pp. 63-65, April-June 2015
16. Parul Tomar, Mohit Bhardwaj, "A New Approach for Deadlock Detection and Removal From Distributed Database Systems" , International Journal of Advanced Technology in Engineering and Science , Volume No 03, Special Issue No. 01, May 2015.
17. B. Bhatia, M K Soni, P Tomar, "Role of Mobile Agents in the Layered Architecture of Mobile Ad-hoc Networks", I.J. Computer Network and Information Security, 2015, 11, pp. 37-45
18. Neelam Duhan, Parul Tomar and Amit Siwach, "PFIMII: Parallel Frequent Itemset Mining using Interval Intersection", International Journal of Computer Applications (0975-8887), volume 156, No 13, pp 10-15, Dec 2016
19. Bindiya Bhatia, M. K. Soni, Parul Tomar, "Vulnerability Analysis of Mobile Agents Praxis in Mobile Ad-Hoc Networks", International Journal of Computer Applications (0975 – 8887) Volume 163 , No 7, April 2017, pp. 58-65
20. Bindiya Bhatia, M. K. Soni, Parul Tomar, "Security Breaches in Trust Management Schemes in Mobile Ad-hoc Networks" , International Journal of Advanced Research (IJAR), ISSN 2320-5407, June 2017, pp. 405-41
21. Gyanendra Kumar, Parul Tomar, "A Novel Longest Distance First Page Replacement Algorithm", Indian Journal of Science and Technology, Vol 10(30), ISSN 0974-5645, August 2017
22. Bindiya Bhatia, Dr. M.K. Soni, Dr. Parul Tomar, "Power Optimized Secure AODV Routing Protocol Based on Mobile Agents", International Journal of Applied Engineering Research, Volume 12, Number 16 (2017) pp. 5884-5893.
23. Bindiya Bhatia, Dr. M.K. Soni, Dr. Parul Tomar, "Extended Bandwidth Optimized and Energy Efficient Dynamic Source Routing Protocol in Mobile Ad-hoc Networks", International Journal of Electrical & Computer Engineering, Volume 8, Number 3(2018) , ISSN:2088-8708 , pp. 1460-1466
24. Gyanendra Kumar, Parul Tomar, "A Survey of IPv6 Addressing Schemes for Internet of Things", International Journal of Hyperconnectivity and Internet of Things, IGI Global, Volume 2, Issue 2, ISSN: 2473-4365

25. Gyanendra Kumar, Parul Tomar, "IPv6 Addressing Scheme with a Secured Duplicate Address Detection", IETE Journal of Research, Taylor and Francis, 0974-780X
26. Simmi Chawla, Parul Tomar, Sapna Gambhir, "Implementation of Language Interoperability for Heterogeneous Mobile Applications", Journal of SeyBold, Issue 9, September 2020, pp:1171-1177, ISSN:1533-9211
27. Simmi chawla, Parul Tomar, Sapna Gambhir," Understanding Interoperability in Internet of Things (IoT) Ecosystem ", Solid State Technology, Vol. 63 No. 6 (2020) ISSN NO: 0038-111X.
28. Parul Tomar, Ranjita Joon (2021)," A Study of Cognitive Radio Networks", Design Engineering, pp.7693- 7705,ISSN: 0011-9342
29. Gyanendra Kumar, Parul Tomar "SENSEnuts IoT platform and Bayes decision theorem based mine control system", Vol 12 No 4 (2021): Mathematics in Engineering, Science and Aerospace (MESA), pp: 901-914
30. Gyanendra Kumar, Parul Tomar "A Stateless Spatial IPv6 Address Configuration Scheme for Internet of Things", IETE Journal of Research, Taylor and Francis, 0974-780X
31. Gyanendra Kumar, Parul Tomar "A Stateless Spatial IPv6 Address Configuration Scheme for Internet of Things", IETE Journal of Research, Taylor and Francis, 0974-780X, Pub Date : 2021-10-31 , DOI: 10.1080/03772063.2021.1994037.
32. Simmi Chawla, Parul Tomar, Sapna Gambhir " A Novel Approach of Cost Estimation for IoT based Projects", International Journal of Engineering Research & Technology, Vol 10 Issue 1, Jan 2021.
33. Simmi Chawla, Dr. Parul Tomar, Dr. Sapna Gambhir, "Smart Education: A Proposed IoT based Interoperable Architecture to Make Real Time Decisions in Higher Education" , Revista GEINTEC - Gestão, Inovação e Tecnologias, ISSN: 2237-0722 Vol. 11 No. 4 (2021) Sep, .2021
34. Ranjita Joon, Parul Tomar, "Energy Aware Q-learning AODV (EAQ-AODV) routing for cognitive radio sensor networks", Journal of King Saud University Computer and Information Sciences(Elsevier), April 2022, 1319-1578.
35. Gyanendra Kumar, Parul Tomar, Lal Pratap Verma, "Path-Rank-Based Data Chunk Scheduling for Concurrent Multipath Transmission", Computer and Communications Networks and Systems The Computer Journal, June 2022.
36. Parul Tomar, Gyanendra Kumar, Lal Pratap Verma, Varun Kumar Sharma, Dimitris Kanellopoulos, Sur Singh Rawat and Youseef Alotaibi,
37. "CMT-SCTP and MPTCP Multipath Transport Protocols: A Comprehensive Review", Electronics, August 2022, 11(15), 2384; doi:10.3390/electronics11152384
38. Ranjita Joon, Parul Tomar, "An Improved Optimal Channel Sensing Algorithm in Cognitive Radio Networks Used for Video Surveillance", Journal of Mobile Multimedia, Vol 19, pp497-518, Nov. 2022
39. Ranjita Joon, Parul Tomar, "Performance Comparison of Routing Protocols in Cognitive Radio Networks",Mathematical Statistician and Engineering Applications on 21/12/2022
40. Ranjita Joon, Parul Tomar, Gyanendra Maurya, Balamurugan Balamurugan, Anand Nayyar, "Unequal Clustering Energy Hole Avoidance (UCEHA) algorithm in Cognitive Radio Wireless Sensor Networks (CRWSNs)",Wireless Networks, June 2024, DOI: 10.1007/s11276-024-03801-6

## Conferences

1. Parul Tomar, A.K. Sharma, Amit Goel, "A QoS Based Self-adjusting Routing Protocol (QSARP) for Mobile Adhoc Networks", National Conference on Emerging Technologies in Computer Science (ETCS-2007), pp-22-32
2. Parul Tomar, P.K.Suri, M.K. Soni, "QoS Enabled Routing Protocol (QERP)", In H. R. Arabnia & V. A. Clincy (eds.), 2009, ICWN (p./pp. 229-234), : CSREA Press. ISBN: 1-60132-113-9.
3. Parul Tomar, "Review on Location Based Routing in Ad Hoc Network", 2nd National Conference on "Recent Trends in Computer Science & Information Technology"(RTCSIT-2013), pp. 117-120.
4. Parul Tomar, Manjit Singh "Detection and Removal of Wormhole Attack in Mobile Adhoc Network", National Conference on Emerging Technologies (NCET 2014) , GCE Thiruvananthapuram
5. Parul Tomar, "A Review on Power Aware Routing Protocols in Mobile Adhoc Network", National Conference on Computational Intelligence, Communication Network, and Smart Grid, Feb 19-20, 2016, pp.309-312.
6. Amit, Neelam Duhan, Parul Tomar, "Frequent Item Set, Mining Techniques: A Review", National Conference on Role of Science and Technology Towards Make in India, March 05- 07, 2016, pp. 22
7. Parul Tomar, Suruchi, "Efficient Concurrency Control Mechanism for Distributed Databases", 3rd IEEE International Conference on "Computing for Sustainable Global Development, INDIACOM 2016, March 16-18 , 2016, pp. 4802-4805.
8. Gyanendra Kumar, Parul Tomar, "A Novel Longest distance, First Page Replacement Algorithm", 3rd International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2016, October 21-22, 2016
9. Parul Tomar, Neelam Duhan, "Parallel Frequent Itemset Mining using A-priori and Interval Intersection", "International Conference on Sustainable Development through Research in Engineering and Management (SDREM-16), Dec. 26-27, 2016.
10. Parul Tomar, Neha, "Importance of Resource Reservation and Efficient Routing in Adhoc Network: A Review", National Conference on New Horizons in Technology for Sustainable Energy and Environment, (NHTSEE-2017), March 9-10, 2017
11. Parul Tomar, Neha Gupta, "Design of Efficient Routing Protocol using Power Awareness in Adhoc Network", National Conference on Advances in Mathematics & Computing (AMC-2017) , May 1-2, 2017.
12. Parul Tomar, Monika Jatiwal, "Detection of Misbehaving Nodes in Ad-hoc Routing", National Conference on Advances in Mathematics & Computing (AMC-2017) , May 1-2, 2017.
13. Bindiya Ahuja, M.K. Soni, Parul Tomar, "Vulnerability Analysis of Trust Propagation and Management in Mobile Ad-hoc Networks", National Conference on Advances in Mathematics & Computing (AMC-2017) , May 1-2, 2017.
14. Ranjita Joon, Parul Tomar "Avoidance of Energy holes in Wireless Sensor Networks: A Review", International Conference on Reliability, Infocom Technologies And Optimization( ICRITO 2018), Aug 29-31, 2018
15. Simmi Madaan, Parul Tomar, Sapna Gambhir, "A Survey on Interoperability in Internet of Things", International Symposium on Fusion of Science & Technology (ISFT 2020), 6-10 January, 2020.
16. Simmi Madaan, Parul Tomar, Sapna Gambhir, "Understanding Interoperability in Internet of Things (IoT) Ecosystem", International Conference on "Emerging Issues and Innovative Business Practices for Sustainable Development and Global Competencies in Management & Information Technology", 26-27 Aug, 2020
17. Gyanendra Kumar, Parul Tomar, "SENSEnats Internet of Things Platforms and Bayes Decision Theorem Based Underground Mine Monitoring and Information Sharing

- system", International Conference on Innovation in IoT, Robotics and Automation (IIRA 2020), 11th December 2020.
18. Gyanendra Kumar, Parul Tomar, "A Review of Concurrent Multi Path Transmission Transport Layer Protocol", International Conference on Trends and Advances in Mechanical Engineering (TAME 2021).
  19. Gyanendra Kumar, Parul Tomar, "An Experimental Study of Concurrent Multipath Transmission Protocol in Lossy and Asymmetric Network Environment", 3rd International Conference on. Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021)
  20. Dipali Singhal, Parul Tomar, "Modern Practices of Smart Farming", 1st International Conference on NanoElectronics, Machine Learning, Internet of Things & Computing Systems (NMIC-2021) , 13-14th March 2021.
  21. Akshi Goswami, Parul Tomar, Sapna Gambhir, "Design of Vehicle Pollution Detection System using IoT", International Conference on Computational Intelligence in Analytics and Information Systems(2nd – 3rd April 2021)
  22. Parkhi, Sapna Gambhir, Parul Tomar "Fog Computing: The next generation Computing Paradigm", International Conference on Computational Intelligence in Analytics and Information Systems(2nd – 3rd April 2021)
  23. Sapna Gambhir, Parul Tomar, "Handling Security Issues in Fog Computing Environment Using Blowfish Encryption Algorithm", International Conference on Emergent Converging Technologies and Biomedical Systems (ETBS - 2021), 28<sup>th</sup> – 29<sup>th</sup> April 2021.
  24. Bhawna Wadhwa, Parul Tomar "Security and Privacy challenges in Big Data", 3rd Doctoral Symposium on Computational Intelligence, An International Conference (DoSCI 2022), 5th March 2022
  25. Pushpa, Parul Tomar "Binary and Multi-class Classification for Intrusion Detection systems", IEEE conference on Machine Learning, Big Data, Cloud and Parallel Computing: Trends, Perspective and Prospects(COM-IT-CON 2022), 26th-27th May 2022
  26. Ranjita Joon, Parul Tomar, "Cognitive Radio Wireless Sensor Networks: A Survey", International Conference on Computational Intelligence and communication Technologies(CCICT-2022), 8th - 9th July, 20
  27. Bhawna Wadhwa, Parul Tomar, "Anonymization Algorithms for Maintaining Privacy in EHR", NIET International Conference & Summit -2023(NICSET), Noida Institute of Engineering and Technology, Greater Noida, June 23-24 2023. (Best Paper Award)

## PH.D Guidance

1. Bindiya Bhatia, (12/Ph.D/009) "A Novel Security Model Based on Trust to Secure mobile Agents in Praxis of Mobile Adhoc Network", Manav Rachna International University. (Completed)
2. Gynendra Kumar (YMCAUST/PH04/2K16), "Improvement of Quality of Service in Internet of things"(Completed).
3. Ranjita Joon (YMCAUST/PH/CE/002/2K17),"Optimal Path Selection in Cognitive Radio Network"(Thesis Submitted)
4. Simmi Madaan , "Design and Development of Architecture for Interoperability in heterogeneous IoT environment".
5. Bhawna Wadhwa,( 20-YMCA-902002) "Optimization of Security in Big Data"

## Research Guidance

1. Nisha Sharma (MCE-121-2K9), "Power Aware Energy Efficient Routing Protocol".
2. Aniket Mathuria (MCE-112-2K9), "Stability Aware Routing in Mobile Ad-hoc Networks Using Multiple Routes".
3. Anamika (MIT-221-2k9), "A New Location Aided Routing Algorithm For MANETs".
4. Lal Pratap Verma (MIT-224-2k9), "Enhancement of Location Based Power Aware Routing".
5. AKhilesh (MCE-111-2k9)," Performance Analysis of BELLMAN-FORD, AODV and Comparison with OLSR and OSPF".
6. Pooja Singh (MNW-137-2k10), "Efficient Power Aware Routing Protocol for Mobile Adhoc Network".
7. Avdesh Kumar(MIT-105-2k10), "Secure and Power Conservative Routing Protocol For Mobile Adhoc Network".
8. Indrajeet Kumar(MNW-887-2k11), "An IDS for Black Hole Attack in MANET".
9. Raman Kumar Banga (MCA-650-2k11), Sunny Hans (MCA-655-2k11) "Online Mobile Purchase and Repairing".
10. Megha (MCE-26-2k12)," Design of a New System for Concurrency Control in Distributed Environment".
11. Manjit Singh (MIT-09-2k12)," Detection and Removal of Wormhole attack in MANET".
12. Mohit Bhardwaj (MIT-211-2k13), "A New Approach for Deadlock Detection and Removal from Distributed Database Systems".
13. Suruchi Tewatia (MIT-217-2k13), "An Improved Method for Asynchronous Concurrency Control in Distributed Database Systems".
14. Amit(MCE-422-2k14)," PFIMII: Parallel Frequent Itemset Mining using Interval Intersection".
15. Neha Gupta (MIT-608-2K15), "Design of Efficient Routing Protocol using Power Awareness in Ad-hoc Network"
16. Monika Jatiwal (MCE-631-2K15)," Detection of Misbehaving Node and Selection of Gateway Node in Manet"
17. Bharti Yadav (MNW-801-2K16)," Energy enhancement of Power Aware Scheduling And Clustering Protocol"
18. Priya Kaushik (MNW-812-2k16), "Enhanced Load Carry and Deliver Routing Protocol for FANET"
19. Vaishali(MNW-816-2K16), "Enhancing Security in Software-Defined Networks"
20. Vikas Kumar(18001502018),"Design of IoT based pollution detection from manufacturing industries "
21. Akshi(18001502002)," Design of cloud based vehicle pollution detection system using IoT"
22. Preeti Sharma(18001507011)," Fog Computing Security Issues and Handling Privacy Issue"
23. Parkhi(18001507010),"ALBH: Advanced Load Balancing Handling algorithm for Fog Computing Environment"
24. Dipali Singhal (19001507004), "Reducing Communication Latency in Smart Farming Environment"

## Professional Memberships

1. The Institution of Engineers (IEI) Membership, Membership No: M1655900 , July 2019
2. Computer Society of India(CSI) Membership, Membership No: 2010000532, Feb 2018



3. Institution of Engineering and Technology (IET) Membership, Membership No: 1100799982, August 2019
4. The Indian Society for Technical Education (ISTE) Membership, 2015

## **Mooc Courses Done**

1. The Joy of Computing Using Python, Jul-Oct, 2018, 12 week Course
2. Cryptography and Network Security, Jan – Apr 2019, 12 week course
3. Introduction to Internet of Things, July-Oct 2019, 12 week course
4. Social Networks, Jan-Apr 2020, 12 week courses
5. Design Technology and Innovation, Sept to Nov 2020, 8week course
6. Innovation by Design, Feb- Mar 2021, 4 week course
7. Understanding Design, Feb – Mar 2022, 4 Week Course
8. Patent Law for Engineers and Scientists, July-Oct 2022, 12 Week course
9. Teaching and Learning in General Programs, Aug-Sep 2022, 4 Week Course
10. Effective Engineering Teaching in Practice, Jan-April 2023, 4 Week Course
11. NBA Accreditation and Teaching and learning in Engineering (NATE), Jan-Apr 2023, 12 Weeks
12. Ethics In Engineering Practice, Feb-Apr 2023, 8 Week Course
13. Outcome Based Pedagogic Principles for Effective Teaching, Feb-Mar 2023, 4 Weeks
14. Leadership and Team Effectiveness, Jan-Apr 2023, 12 Weeks

## **Current Responsibilities**

1. Working as Coordinator, Skill and Personality Development Centre, Developed under Grant from AICTE
2. Working as Innovation Ambassador, Institution Innovation Council, MoE, Government of India.
3. Working as Teacher Coordinator Google Developer Student Club
4. Sessional Coordinator
5. Member SC/ST cell

## **Responsibilities undertaken**

1. Member Board of Studies (Department of Computer Engineering)
2. Development of Result Preparation Software(CBS) for the University (2007)
3. Development of current ERP system(Examination) of University
4. Member Board of Studies (Department of Computer Engineering)
5. Member, Board of Faculty (Faculty of Informatics and Computing)
6. Working as Convenor, Institution Innovation Council, JCBUST, YMCA
7. Worked as Assistant Controller of Examination from 2016 – 2019.
8. Worked as Hostel Warden, 2007-2010
9. Coordinator, GATE under TEQIP
10. Coordinator, IoT Incubation Activity under Institution Innovation Cell