

## FACULTY PROFILE



**Name:** Dr. Uma Meena

**Designation:** Associate Professor

**E-Mail:** [umameenk@srmist.edu.in](mailto:umameenk@srmist.edu.in)

### **Professional Qualification:**

- Ph.D., Mody University, Lakshmangarh, Sikar (Rajasthan), 2019
- M.Tech (CSE), Mody University, Lakshmangarh, Sikar (Rajasthan), 2010
- B.Tech (IT), MAIET, Jaipur (Rajasthan), 2007

### **Publications (Journals & Conferences):**

- Uma Meena, Promila Sharma, “**An improved blockchain based encryption scheme for secure routing in wireless sensor network using machine learning technique**”, Transactions on Emerging Telecommunications Technologies, 2022.
- Promila Sharma, Uma Meena, Girish Kumar Sharma, “**Intelligent Data Analysis using Optimized Support Vector Machine Based Data Mining Approach for Tourism Industry**”, ACM Transactions on Knowledge Discovery from Data, 2022.
- Uma Meena, Promila Sharma, “**Secret Dynamic Key Authentication and Decision Trust Secure Routing Framework for Internet of Things Based WSN**”, WPC (Springer), 2022. <https://link.springer.com/article/10.1007/s11277-022-09632>
- Ayushi Sharma, Uma Meena and Dilkeswar Pandey, “**A survey of the identification strategies of brain tumors for MR images**”, Turkish Journal of Computer and Mathematics Education, e-ISSN 1309-4653, Vol.12 No.10 (2021), 6172 – 6178,2021.

- Uma Meena, Anand Sharma, “**An Efficient Hop-by-Hop Message Authentication Scheme and Secure Location Privacy in Wireless Sensor Networks**”, *International Journal of Recent Technology and Engineering (IJRTE)*, (Scopus), ISSN: 2277-3878, Vol.7, No.5S2, 2019.
- Uma Meena, Anand Sharma, “**Secure Key Agreement with Rekeying using FLSO Routing Protocol in Wireless Sensor Network**”, *Wireless Personal Communication (Springer)*, ISSN: 0929-6212, 2018.
- Uma Meena, Anand Sharma, “**Survey of Source Anonymous Message authentication Scheme using Analytical and Computational Approach**”, *International Journal of Electronics, Electrical and Computational System (IJEECS)*, ISSN 2348-117X, Vol.7, Issue 2, (UGC Approved), 2018.
- Uma Meena, Anand Sharma, “**An Investigation of Optimal Design of Source Anonymous Message Authentication (SAMA) Scheme using Analytical and Computational Approach**”, *International Journal of Applied Engineering Research (IJAER)*, (Scopus), Vol.12, No.20 (2017), ISSN: 0973-4562.
- Uma Meena, Anand Sharma, “**Adequate Sparse Secure and Minkowski Distance Based Location Privacy Approach in Wireless Sensor Network**”, *International Journal of Intelligent Engineering and Systems (IJIES)*, (Scopus), Vol.10, No.3 (2017), ISSN: 2185-3118.

#### **Conference:**

- Shalika, Uma Meena, Ajay Agarwal, “**An Analysis of Energy Efficient Clustering based Techniques in WSN**”, *6th International Conference on Intelligent Computing and Control Systems (ICICCS 2022)*, pp- 715-721, 25-27 May, 2022.
- Shalika, Uma Meena, Ajay Agarwal, “**Analysis of Simulators used in Wireless Sensor Network**”, *6th International Conference on Trends in Electronics and Informatics (ICOEI 2022)*, pp- 678-683, 28-30 April, 2022.
- Uma Meena, M.K.Jha, “**An Efficiency Model for Authentication Approaches in WBAN**”, *9<sup>th</sup> INDIACom; IEEE 2<sup>nd</sup> International Conference on “Computing for Sustainable Global Development”*, ISBN: 978-93-80544-15-1, pp.476 – 482, March 2015.

- **Uma Meena, M.K.Jha, “A Retrospective Investigation of Message Authentication in Wireless Sensor Networks: A Review”, 10<sup>th</sup> INDIACom; IEEE 3<sup>rd</sup> International Conference on “Computing for Sustainable Global Development”, ISBN: 978-9-3805-4421-2, pp. 613–616, March 2016.**

#### **Book Chapters:**

- **Promila Sharma, Uma Meena, and Girish Kumar Sharma, “Application of Data Mining Algorithms for Tourism Industry”, Intelligent Computing and Applications Proceedings of ICICA 2019, Advances in Intelligent Systems and Computing, pp. 481-495, [book paper Springer Promila ICICA 2019.pdf](#)**
- **Anand Sharma and Uma Meena, “Undefeatable System Using Machine Learning”, Intelligent Computing and Applications Proceedings of ICICA 2019, Advances in Intelligent Systems and Computing, pp. 759-767, [book paper Springer Promila ICICA 2019.pdf](#).**

#### **Awards and Achievements:**

- **Received an Excellence Award – 2021, In recognition of outstanding contribution and constant support in Admission Activities.**
- Received an **“Internet of Things Online Certification”**, for successfully completing the quiz **Internet of Things**, organized by Department of CSE, NICHE, and Kumaracoil in the year 2020 with 85%. Certificate ID: PPDRTS-CE001092
- Received an **“Elite-NPTEL Online Certification”**, for successfully completing the course **Introduction to Internet of Things**, organized by Indian Institute of Technology Madras, Roll No: NPTEL19CS65S61910671.
- Received an **“Elite-NPTEL Online Certification”**, for successfully completing the course **Cloud Computing**, organized by Indian Institute of Technology Madras, Roll No: NPTEL19CS27S41890420.
- Received a **“Coding Practices in Elab Certification”**, for successfully completing the course **C Programming Beginner Level** organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus,

Ghaziabad, in association with **CENTRE FOR APPLIED RESEARCH IN EDUCATION** conducted during January 2019 to April 2019.

- Received a **“GARGI Award”** in 10<sup>th</sup> class.

#### **Workshops/Seminars/FDPs:**

- **Participated in the AICTE Recognized FDP on “Technology Integration and NEO 2020”, Conducted by Media Engineering Department, SRM Institute of Science and Technology, NCR-Campus, Ghaziabad, 12<sup>th</sup> June – 16<sup>th</sup> June, 2023.**
- **Participated in FDP on “Emerging Trends and Applications of Machine Learning Based Artificial Intelligence”,** organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, NCR-Campus, Ghaziabad, 20<sup>th</sup> February – 25<sup>th</sup> February, 2023.
- **Participated in the AICTE Recognized FDP on “Digital Tools for Teaching and Learning”, Conducted by Media Engineering Department, SRM Institute of Science and Technology, NCR-Campus, Ghaziabad, 25<sup>th</sup> July – 29<sup>th</sup> July, 2022.**
- Participated in Workshop on **“Virtual Labs under the National Mission on Education through ICT”** conducted by Team Virtual Labs, Indian Institute of Education, Govt. of India Institute of Technology Roorkee, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 3<sup>rd</sup> November, 2022.
- Participated in FDP on **“Computer Science & Biology”**, organized by AICTE Training and Learning (ATAL) Academy from 1<sup>8th</sup> January – 2<sup>2nd</sup> January, 2021 at MNIT, Jaipur.
- Participated in FDP on **“Data Science and Analytics”**, organized by Department of Computer Science & Engineering, SRM, FET, Vadapalani, Chennai from 4<sup>th</sup> January – 8<sup>th</sup> January 2021.
- Participated in FDP on **“Internet of Things”**, organized by AICTE Training And Learning (ATAL) Academy from 7<sup>th</sup> December – 12<sup>th</sup> December, 2020 at SRM Institute of Science and Technology, NCR-Campus, Ghaziabad.
- Participated in FDP on **“An Innovative Research Trends in Data Science Using R Programming Introduction”**, organized by Department of Computer Science & Engineering, Santhiram Engineering College, Nandyal in Collaboration with Codegnan IT Solutions, Vijayawada from 26<sup>th</sup> May - 31<sup>st</sup> May, 2020.

- Participated in National Webinar on **“IoT Based Solar Power Supply For Rural India”**, organized by Department of Applied Science & Humanities, Cambridge Institute of Technology by Dr. Shiva Nand Singh (Professor & Head), Department of ECE, NIT – Jamshedpur on 31<sup>st</sup> May 2020.
- Participated in FDP on **“Research Methodology – Tools & Techniques”**, organized by IILM College of Engineering & Technology from 18<sup>th</sup> May – 22<sup>nd</sup> May, 2020.
- Participated in Webinar on **“Digital Transformation”**, organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, Kattankulathur Campus on 25<sup>th</sup> May, 2020.
- Participated in Webinar on **“Outcome based Education & Blooms Taxonomy for Teaching Learning”**, organized by SRM Institute of Science and Technology, Vadapalani Campus on 23<sup>rd</sup> May, 2020.
- Participated in Webinar on **“Internet of Things”**, organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, Kattankulathur Campus on 22<sup>nd</sup> May, 2020.
- Participated in Webinar on **“Explore Your Inner Thoughts”**, organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, Kattankulathur Campus on 19<sup>th</sup> May, 2020.
- Participated in FDP on **“Artificial Intelligence”**, organized by Department of Computer Science & Engineering, Santhiram Engineering College, Nandyal in association with Brain O Vision, Hyderabad from 13<sup>th</sup> May – 18<sup>th</sup> May, 2020.
- Participated in Webinar on **“Trends in Software Testing”**, organized by Department of Electronics and Instrumentation Engineering, Easwari Engineering College, Ramapuram on 10<sup>th</sup> May, 2020.
- Participated in FDP on **“Internet of Things”**, organized by AICTE Training And Learning (ATAL) Academy from 7<sup>th</sup> May – 11<sup>th</sup> May, 2020 at NIT Jamshedpur.
- Participated in FDP on **“Introduction to Internet of Things ”**, organized by Indian Institute of Technology Madras of NPTEL Online Certification from July to October, 2019.
- Paper Presented with research paper titled **“Undefeatable System Using Machine Learning”**, during the 5<sup>th</sup> International Conference on Intelligent Computing and

Applications (ICICA-19), organized by Department of Computer Science and Engineering held at SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad from 6<sup>th</sup> to 8<sup>th</sup>, 2019.

- Attended a Two Days Workshop on “**Android Application Development**” at SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad in association with Abhyuday-2020 Indian Institute of Technology-Bombay, By Utkraanti from 28<sup>th</sup> August - 29<sup>th</sup> August, 2019.
- Participated in Three Days FDP on “**Natural Language Processing using Machine Learning**”, organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad from 27<sup>th</sup> June - 29<sup>th</sup> June, 2019.
- Participated in 8 Weeks FDP on “**Cloud Computing**”, organized by Indian Institute of Technology Madras of NPTEL Online Certification from February to April, 2019.
- Completed Two Days Workshop on “**Outcome Based Education and Accreditation Process**” organized by Bharati Vidyapeeth’s Institute of Computer Applications and Management (BVICAM), New Delhi from 16<sup>th</sup> May - 17<sup>th</sup> May, 2019.
- Paper Presented at National Conference “**Applications of Technical Terminology in Modeling, Optimization and Computing in Science and Technology**”, organized in association with Commission for Scientific and Technical Terminology, Ministry of Human Resource Development (MHRD) at SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad (UP) from 26<sup>th</sup> April - 28<sup>th</sup> April, 2019.
- Attended a Seminar on “**Research Methodology**” organized by Department of Computer Science & Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, on 1<sup>st</sup> March, 2019.
- Participated in Workshop on “**Applications of Analytical Tools and Ethics in Academic Research**” organized by Department of Management Studies, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, from 27<sup>th</sup> to 28<sup>th</sup> February, 2019.
- Attended a Workshop on “**PHP**”, conducted by DUCAT at SBIT, Sonapat (NCR Delhi), Haryana on 21<sup>st</sup> March, 2018.

- Attended 7<sup>th</sup> National Conference on **Emerging Trends In Engineering & Technology (ETET 2018)**, SBIT, Sonipat (NCR Delhi), Haryana, on 16<sup>th</sup> February, 2018.
- Attended a Short Term Course on **“Cyber Threats and Security Measures”** at NITTTR Chandigarh, from 24<sup>th</sup> to 28<sup>th</sup> April, 2017.
- Attended ICT on **“Smart Grid and Renewable Energy Sources”** conducted by NITTTR Chandigarh, Remote Center (Mody University), from 18<sup>th</sup> to 22<sup>nd</sup> January, 2016.
- Attended ICT on **“MATLAB and its Hardware Interface”** conducted by NITTTR Chandigarh, Remote Center (Mody University), from 11<sup>th</sup> to 15<sup>th</sup> January, 2016.
- Attended a Short Term Course on **“Advanced Applications of Matlab in Engineering”** organized by Department of Chemical Engineering and Mechanical Engineering, MNIT (Jaipur) from 23<sup>rd</sup> to 27<sup>th</sup> November, 2015.
- Completed Two Week ISTE workshop on **“Introduction to Design of Algorithms”** conducted by IIT Kharagpur, Remote Center (Mody University) from 27<sup>th</sup> April to 30<sup>th</sup> May, 2015.
- Attended a National Workshop on **“Cloud Computing and Big Data”**, conducted by Faculty of Engineering & Technology, Mody University (Lakshmangarh) from 18<sup>th</sup> to 20<sup>th</sup> April, 2015.
- Attended a Lecturer Workshop on **“Nanoscience & Nanotechnology: Challenge and Opportunities”** organized by Department of Nano Science and Technology, Faculty of Engineering & Technology, MUST (Lakshmangarh) from 21<sup>st</sup> to 22<sup>nd</sup> November, 2014.
- Completed Two Week ISTE workshop on **“Computer Programming”** conducted by IIT Bombay, Remote Center (Mody University) from 28<sup>th</sup> May to 21<sup>st</sup> June, 2014.
- Attended a Short Term Training Programme on **“Research Methods and Data Analysis”** held at Faculty of Arts, Science and Commerce, MITS, Lakshmangarh and Operational Research Society of India (ORSI) Ajmer Chapter from 11<sup>th</sup> to 17<sup>th</sup> July, 2013.
- Attended International Conference on **“Women in Science & Engineering: Global Perspectives on Challenges & Opportunities (WISE-2012)”** organized by MITS (Lakshmangarh) on 28<sup>th</sup> March, 2012.

- Attended 2<sup>nd</sup> National Conference on Energy held at Faculty of Engineering & Technology, MITS (NCE09), and Lakshmangarh from 31<sup>st</sup> Oct to 1<sup>st</sup> Nov, 2009.
- Attended 1<sup>st</sup> National Conference on Energy held at Faculty of Engineering & Technology, MITS (NCE08), and Lakshmangarh from 18<sup>th</sup> to 19<sup>th</sup> October, 2008.

**Work Experience:**

- Working as Associate Professor (CSE Deptt.) in SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad (UP).
- Worked as Assistant Professor (CSE Deptt.) in SBIT, Sonapat (NCR Delhi), Haryana.
- Worked as Assistant Professor (CSE Deptt.) in Dr. K.N. Modi University, Newai, Rajasthan.
- Worked as Assistant Professor (CSE Deptt.) in Mody University of Science & Technology, Lakshmangarh, Sikar (Rajasthan).
- Worked as a Lecturer in Ajmer Institute of Technology (AIT) Ajmer.

**Professional Memberships:**

- Member of Institution of Engineers (India) (Since 2018 onwards).
- Life Membership of ISTE (Since 2019 onwards).
- Membership of IAENG (INTERNATIONAL ASSOCIATION OF ENGINEERS):  
Member Number: 239792 (Since 2019 onwards).