# Faculty Profile

Name              : Dr. Meena Rao

Designation       : Associate Professor

Qualifications    : Ph.D, M.Tech, B.E.

Phone             : 011-25528117
                     011-2552667 (Extn. 138)

Email             : meenarao@msit.in

Area of Interest/Specialization: Wireless communication, MANETs,

Artificial Intelligence, Digital Electronics

Experience        : 16 years and 9 months

Key Publications

1. Gupta, Richa & Yadav, Deepshikha & Rao, Meena & Gaur, Ankit. (2021). Design and Testing of SMPS in Accordance with IEC 61000-4-11 Standard with Measurement Uncertainty. MAPAN. 10.1007/s12647-021-00492-8. Indexing SCIE, SCOPUS, UGC-CARE

2. Meena Rao and Neeta Singh, *"Energy Efficient QoS Aware Hierarchical KF-MAC Routing Protocol in Manet"*, Vol. 80, No. 3, pp. 1-14. 12th April 2018. Wireless Personal Communications, Springer Link, Indexing SCIE, SCOPUS, UGC-CARE ISSN: 0929-6212

3. Mukesh Kumar Garg, Neeta Singh and Meena Rao *"Design and Implementation of Trust-based Secure Routing Protocol for MANETs",* International Journal of Applied Engineering Research, Vol. 12, No. 16, pp. 5440-5446, 2017. Indexing: SCOPUS. ISSN: 0973-4562.

4. Meena Rao and Neeta Singh, *"Energy Efficient AODV for Backup Route Selection in MANETs"*, Indian Journal of Science and Technology, Vol. 10, Issue 10, pp. 1-5, March 2017. Indexing: Web of Science, Thomas Reuters, UGC approved journal. ISSN : 0974-5645

5. Meena Rao and Neeta Singh, *"Performance Evaluation of AODV nthBR Routing Protocol under Varying Node Density and Node Mobility for MANETs"*, Indian Journal of Science and Technology, Vol. 8, Issue 17, pp. 1-9, Aug. 2015, Indexing: Web of Science, Thomas Reuters, UGC approved journal ISSN : 0974-5645

Papers presented in Conferences

1. Richa Gupta, Deepshikha Yadav, Meena Rao, Ankit Gaur "Design & testing of SMPS in accordance with IEC-61000-4-11 standard with lower measurement uncertainty". Paper presented in 7th National Conference on Advances in Metrology (AdMet 2021), Springer, held at Maharaja Surajmal Institute of Technology, New Delhi on 5th-6th March 2021.

2. Meena Rao, "*Impact of Routing Protocols and Artificial Intelligence Techniques on adhoc networks in critical scenario*", 2nd International Conference on Emerging Technologies in Data Mining and Information Security, Lecture Notes in Networks and Systems, Springer, Vol. 164, pp. 883-890, 2020. Print ISBN: 978-981-15-9773-2; Online ISBN: 978-981-15-9774-9

3. Meena Rao and Neeta Singh, "*Performance Analysis of AODV nthBR Protocol for Multimedia Transmission under Different Traffic Conditions for Sparse and Densely Populated MANETs*", Proceedings of IEEE Sponsored International Green Computing and Internet of Things Conference (ICGCoIT), pp. 1010-1015, 8th - 10th Oct. 2015. IEEE ISBN: 978-1-4673-7909-0

4. Meena Rao and Neeta Singh, "*An Improved Routing Protocol (AODV nthBR) for Efficient Routing in MANETs*", Proceedings of the Second International Conference on Advanced Computing Networking and Informatics (ICACNI 2014), 24th – 26th June 2014.  Published in Smart Innovations Systems and Technologies, Springer, SCOPUS Indexed, Vol. 28, pp. 215-223, 2014. ISSN: 2190-3018

5. Meena Rao and Neeta Singh, "*Quality of Service Enhancement in MANETs with an Efficient Routing Algorithm*", Proceedings of IEEE International Advance Computing Conference (IACC 2014), pp. 381-384, 21st-22nd Feb. 2014.

Awards and Recognitions

1. Letter of Appreciation given by Chairman, SMES (May 2016)
2. Awarded the best paper in the session Track 4: Data Science and Data Analytics of 2nd International Conference on Emerging Technologies in Data Mining and Information Security, 2nd-4th July 2020

Patent/Copyright

1. Patent publication – Method for authenticating and validating quick response code, Patent application no. 202121010704 A

2. Patent publication - Internet of Things and artificial intelligence based intelligent vehicle controlled rescue system for epilepsy patients Patent application no. 202141022696 A

Book Chapter/Books published

1. Meena Rao, "Design, Implementation and Analysis of an Efficient Routing Protocol for QoS Provisioning in MANETs", Advance Academic Publisher, ISBN 13:978-93-84698-25-6; ISBN 10: 93-84698-25-6
2. Meena Rao, "Implementation and Analysis of File Transfer Protocol Access and Management", Advance Academic Publisher, ISBN 13:978-93-84698-26-3; ISBN 10:93-84698-26-3
3. Meena Rao, "Development and Analysis of Automobile Recognition Device for people with Blindness", Advance Academic Publisher, ISBN 13: 978-93-84698-27-0; ISBN 10:93-84698-2

Memberships of Professional bodies: ISTE Member

Other Contributions:

- Currently Convener, Placement Committee MSIT
- Organized AICTE-ISTE sponsored Refresher programme on "Use of ICT in Engineering Education" in three different slots in the year 2021
- Was the Convener of Alumni and cultural Committee in the years 2017-19
- Was the Convener of Cultural Fest in January 2018 and Co-convener Technical Fest Avensis in January 2017