FACULTY PROFILE

Name: Dr. Aditya Agarwal

Designation: Assistant Professor

E_Mail: adityaa@srmist.edu.in

Professional Qualification:

- **Ph.D (Electronics and Communication Engg.)** from Noida International University, Greater Noida, Uttar Pradesh in 2022.
- **M. Tech (VLSI Design)** from Shobhit University, Modi Puram, Uttar Pradesh in 2009.

Publications (Journals):

- Aditya Agarwal, "VLSI Implementation of Advanced Encryption Standard using Rijndael Algorithm" International Journal of Application or Innovation in Engineering and Management, Volume -2, Issue -4, April 2013, pp. 486 -491.
- Aditya Agarwal *et. al.*, "Automatic Corporate Farming Control Mechanism (Using Embedded Systems and GSM Technologies", International journal of Engineering Research & Management Technology, Volume -1, Issue -1, January 2014, pp. 241-247
- Aditya Agarwal *et. al.*, "RFID and GSM I*ntegration*: Security Application" International journal of Engineering Research & Management Technology, Volume -1, Issue -2, January 2014, pp.102-106
- Aditya Agarwal *et. al.*, "Energy Efficient Multimode Photonic Switch" International Journal of Advanced Research in Engineering Technology & Sciences, Volume -2, Issue -3, March 2015, pp.254-258
- Aditya Agarwal *et. al.*, "Automatic Security with Laser Shooter", International journal of Engineering Research & Management Technology, Volume -2, Issue -2, March 2015, pp.169-175

- Aditya Agarwal *et. al.*, "Automatic E-toll system with Navigation, Tracing, Purchasing and challaning using RFID", International journal of Education and Science Research Review, Volume -3, Issue -2, April 2016, pp: 146-151.
- Aditya Agarwal *et. al.*, Kumari Soumya, Naman Jain, Kashish Dhawan, "Smart Fire Detector And Smoke Extractor System With GSM Technology" International Journal of Advanced Research in Engineering Technology & Sciences, Volume -4, Issue -3, March 2017, pp: 146-151.
- Aditya Agarwal *et. al.*, "6-Bit Array Multiplier For High Speed Computation Using VHDL", SRM International Journal, Volume -4, Issue -1, September 2016, pp: 1-6.
- Aditya Agarwal *et. al.*, "Design and Simulation of 16 bit Vedic Multiplier using Urdhva Triyakbhyam Algorithm", International Journal of Control Theory and Applications, Volume -10, Issue -8, January 2017, pp: 543-551.
- Aditya Agarwal *et. al.*, " A Study of Characterization of Surrounding Gate MOSFET", VSRD International Journal of Technical and Non Technical Research, Volume 9, Issue -1, January 2018, pp: 67-70.
- Aditya Agarwal *et. al.*, "Design and Implementation of an Automated Unmanned Tanker Robot using Bluetooth Module and Microcontrollers", Journal of Network Communications and Emerging Technologies, Volume -8, Issue -5, May 2018, pp: 58-62.
- Aditya Agarwal *et. al.*, "Smart Wheelchair Based on Voice Recognition for Handicapped", International Journal for Scientific Research & Development, Vol. 6, Issue 02, 2018. pp - 2948-2950. https://www.ijsrd.com/articles/IJSRDV6I21765.pdf
- Aditya Agarwal *et. al.*, "Implementation of Low Power AMBA-AHB Bus Utilizing the Multi-Coding Technique" Annals of the Romanian Society for Cell Biology, Vol-25, Issue-3, March 2021, pp: 2111-2116,
- Aditya Agarwal *et. al.*, "Simulation and Performance Analysis of Electrical properties of Nano Scale Surrounding Gate MOSFET", Annals of the Romanian Society for Cell Biology, Vol-25, Issue-3, March 2021, pp: 2102-2110,
- Aditya Agarwal *et. al.*, "Eminent Method of Voice Identification by applying pitch, Intensity and pulse", AIP Conference Proceedings, Vol-2393, Issue-1, May 2022, pp: 020079-1 - 020079-6.
- Aditya Agarwal *et. al.*, "Modeling and Analysis of High RF Behavior of Nano scale Surrounding Gate MOSFET", NeuroQuantology, Vol-20, Issue-5, May 2022, pp: 3020-3030.
- Aditya Agarwal *et. al.*, "Analytical Characterization of 3D nano scale ultra-thin film Surrounding Gate MOSFET", International Journal of Engineering Systems Modelling and Simulation, Vol. 13, Issue-2, June 2022, pp.134 – 139.
- Aditya Agarwal *et. al.*, "Design of 15 level reduced switches inverter topology using multicarrier sinusoidal pulse width modulation", TELKOMNIKA (Telecommunication Computing Electronics and Control), Vol. 21, Issue-1, Feb 2023.

Publications (Conferences):

- Aditya Agarwal, "Human Health Behaviour Monitoring System Using IoT", International Conference on Sustainable Development in Engineering, Management & Medical Science-2023, Rajshree Institute of Management & Technology, Bareilly, May 2003.

- Aditya Agarwal, "An Investigation on Drain Current of Junction and Junctionless Surrounding Gate MOSFET, ICMETE-2019" 2nd International Conference on Microelectronics and Telecommunication Engineering, 'ICMETE-2018' SRM Institute of Science and Technology, September 2019.
- Aditya Agarwal "Analytical modeling electrical conduction of nano scaled Surrounding Gate MOSFET", 2nd International Conference on Microelectronics and Telecommunication Engineering, 'ICMETE-2018' SRM Institute of Science and Technology, September 2018.
- Aditya Agarwal "Design and Simulation of 16 bit Vedic Multiplier using Urdhva Triyakbhyam Algorithm", International Conference on Advanced Trends in Engineering Science & Humanities 'ICATESH-2016', Priyadarshini J L College of Engineering, Nagpur, December 2016.
- Aditya Agarwal, "6-bit Array Multiplier for high speed computation using VHDL", International Conference on Micro-Electronics and Telecommunication Engineering, 'ICMETE 2016', SRM University, Modinagar. September 2016.
- Aditya Agarwal, "Analysis & Comparison of 1 bit full adder topologies on different technologies", National Conference on recent trends in Information and Communication Technology, 'NCRTICT 2012', SRM University, Modinagar, September 2012.

Awards and Achievements

- Received Certificate of appreciation in recognition of contribution as a Faculty coordinator of the INNOVATE-17, a national level Technical Fest.
- Received Certificate of appreciation in recognition of contribution as organizing committee member of Computer Society of India (CSI) student Convention, Feb 13th – Feb 14th 2017.
- Received Certificate of Excellence in recognition of contribution as an organizing committee member of the International Conference on Micro-electronics and Telecommunication Engineering, Sep. 22nd - Sep. 23rd 2016.

Workshops/Seminars/FDPs

- Participated in AICTE Training And Learning (ATAL) FDP - Nano Electronics and RF Engineering from 06/09/2021 to 10/09/2021 at SRM Institute of Management and Technology.
- Participated in series of Best Practices in Higher Technical Education Organized by Department of Computer Science and Engineering in association with SRM Centre for Applied Research in Education (SRM-CARE) held from 30th June 2020 to 04th July 2020.
- Participated in AICTE Training And Learning (ATAL) FDP - Internet of Things (IoT) from 2020-12-7 to 2020-12-11 at SRM Institute Of Science and Technology.

- Participated in AICTE Training And Learning (ATAL) FDP - Cyber Security and Forensics from 2020-10-3 to 2020-10-7 at Gautam Buddha University.
- Participated in E Awareness workshop Organized by NPTEL, IIT Madras on Jan 6th 2021.
- Participated in 12 week online certification Course - Computer networks and Internet Protocol Organized by NPTEL, IIT Kharagpur on Jan to April 2020.
- Participated in one week a Faculty Development Program on Transforming Education with Industry 4.0 by Department of CSE and IT, JAYPEE University of Information Technology, Waknaghat Solan, Himachal Pradesh on June 15th to June 20th 2020.
- Participated in one week Faculty Development Program on F - Process Management in Problem solving by ICT Academy, School of Computer Application and Information Technology, SGGR University on June 3rd to June 8th 2020.
- Participated in two week a multi disciplinary Faculty Development Program Eruditia Organized by SRM Institute of Science and Technology on June 12th to June 23th 2018.
- Participated in one week AICTE recognized short term course on Research Methodology through ICT conducted by Education and Education Management department from NITTTR Chandigarh, Ministry of HRD at SRM University, NCR Campus, Ghaziabad January 2017.
- Participated in two week a Faculty Development Program on Entrepreneurship by National Science & Technology Entrepreneurship Board, Department of Science & Technology, Govt. of India, New Delhi Organized by Department of ECE, SRM University on June 14th to June 28th 2017.
- Attended one week SAKSHAM–IT Champion Training Program organized by Microsoft at SRM University, NCR Campus, Modinagar on June 13th to June 18th 2016.
- Attended one day training cum workshop of university/college level on VLSI and embedded system by Sofcon India Pvt. Ltd on Sept. 11th 2015.
- Participated three days Faculty Development Program on Entrepreneurship Development by State Bank of India Consultancy Service Cell Organized by Innovation and Entrepreneurship Development Centre, SRM University on November 3rd to November 5th 2015.
- Participated one week ISTE–SRM short term training program on "Virtualization Technology using VMware" organized by SRM University, NCR Camus sponsored by Indian Society for Technical Education (ISTE) New Delhi on May 19th to May 24th 2014.
- Participated in Third Indian Youth Science Congress at NASC Complex, New Delhi on November 3rd to November 5th 2011.

Work Experience: 15+ years, working in SRM Institute of Science & Technology since June 2008.

Professional Memberships:

- Life Fellow member of IETE (The Institute of Electronics and Telecommunication Engineers)

- Life member of ISTE (The Indian Society for Technical Education).

- Life member of (IEI) The Institution of Engineers (India)

- Life member of IACSIT (International Association of Computer Science and Information Technology)

- Life member of IAENG (International Association of engineers)