

## Faculty Profile

**Name:** Ashish Suri  
**Designation:** Assistant Professor  
**Department:** Electronics & Communication Engineering  
**Email ID:** ashish.suri@smvdu.ac.in  
**Contact Number and Extn. 9419190204 Extn. 2337**  
**Qualification:** B.E, M.Tech  
**Experience:** 16 years  
**Teaching: 16 years Research: 6 Administration: 10 Total: 16 years**

### Areas of Interest / Specialization:

- **Wireless Communications & Networks**
- **Digital Signal Processing**
- **Mobile Communications**
- **Cognitive Radio Network**

## Research Profile

### Research Publications:

| S. No. | Year | Publication  |
|--------|------|--|
| 1      | 2017 | Suri, A; Singh, J., " <b>Receiver Operating Characteristic for Variable Threshold and Sample Values using Energy Detection for Secondary user in Cognitive Environment</b> ". <i>International Journal of Computer Applications</i> 159(5):25-35, February 2017                      |
| 2      | 2014 | Sharma, B.; Suri, A., " <b>Issues, Challenges, Security &amp; its attacks in Wireless Communication System &amp; Networks,</b> " <i>Telecommunications: The Indian Journal of Telecommunications</i> , Vol. 61, Issue 1, November 2014, pp.34-40.                                    |
| 3      | 2014 | Mahajan, A; Ahmed, S; Gupta, S; <b>Suri, A, "Comparative Analysis of Different Data Dissemination Strategies in Wireless Sensor Networks"</b> <i>International Journal of Advanced Research in Computer and Communication Engineering</i> , vol. 3, no. 4, pp.6350,6354, April. 2014 |
| 4      | 2014 | Ahmed, S; Bashir, M; <b>Suri, A, "Low Pass FIR Filter Design and Analysis using Hamming, Blackman and Kaiser Windows,"</b> <i>International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering</i> , vol 3, no. 4, pp. 8676-8683, April 2014.   |

**Books Publications:**

| S. No. | Year | Publication  |
|--------|------|--|
| 1      | 2016 | Ahmed, S; Gupta, S; <b>Suri, A</b> , "Adaptive Energy Efficient Fuzzy Clustering for Landslide Detection: A Wireless Sensor Network Based Approach" <i>Lambert Academic Publishing</i> , ISBN-97833659922282, 2016 |
| 2      | 2017 | Ahmed, S; Gupta, S; <b>Suri, A</b> , "Reliable and Energy Efficient Data Dissemination in Sensor Networks" <i>Lambert Academic Publishing</i> , ISBN-9783330045101, 2017   |

**Conference Publications:**

| S. No. | Year | Publication  |
|--------|------|--|
| 1      | 2017 | Gupta, A; Suri, A " <b>Energy Efficient Cooperative Spectrum Sensing In Cognitive radio: A Survey</b> " 4 <sup>th</sup> International Conference on Recent Trends and Advancements in Engineering & Technology, SMVDU, 3 <sup>rd</sup> - 4 <sup>th</sup> Nov. 2017.  |
| 2      | 2017 | Suri, A; Singh, J, " <b>Energy Based Probability Of Detection For Spectrum Sensing in varying Signal to Noise Ratio</b> " <i>UGC -Sponsored National Conference On Emerging Trends In Electronics &amp; Computer Engineering ETECE17,GNDU Regional Campus, Gurdaspur,10<sup>th</sup> -11<sup>th</sup> Feb 2017</i>                                       |
| 3      | 2015 | Sharma, S.; Kumar, S.; Keshari, A.; Ahmed, S.; Gupta, S.; <b>Suri, A.</b> , " <b>A Real Time Autonomous Soldier Health Monitoring and Reporting System Using COTS Available Entities,</b> " <i>Advances in Computing and Communication Engineering (ICACCE), 2015 Second IEEE International Conference on</i> , vol., no., pp.683, 687, 01-02, May, 2015 |
| 4      | 2015 | Sharma, A.; Gupta, S.; <b>Suri, A.</b> , " <b>Towards Standardization in Time Synchronization of Wireless Sensor Networks</b> ", <i>Futuristic Trends in Computational analysis and Knowledge management (A-BLAZE 2015), IEEE International Conference on</i> , vol., no., pp., , 25-27, Feb., 2015  |
| 5      | 2014 | Ahmed, S.; Mahajan, A.; Gupta, S.; <b>Suri, A.</b> , " <b>An Optimal Selection of Routing Protocol for Different Sink Placements in a Wireless Sensor Network for Landslide Detection System,</b> " <i>Computational Intelligence and Communication Networks (CICN), 2014 IEEE International Conference on</i> , vol., no., pp.358,363, 14-16 Nov. 2014  |
| 6      | 2012 | Khalid, S.;, Sharma, B; Suri, A.; " <b>Trends In Industrial Wireless Automation</b> ", <i>UGC Sponsored National Seminar on Wireless Communications &amp; Networks with special emphasis on Adhoc &amp; Sensor Networks</i> , pp. 81-85, March 2012.   |
| 7      | 2012 | Poster Presentation at UGC Sponsored National Symposium on Interdisciplinary Sciences on " <b>Issues, Challenges &amp; Security in Wireless Networks &amp; their Solutions</b> " at GGM Science College from 2 <sup>nd</sup> -3 <sup>rd</sup> March 2012   |
| 8      | 2009 | Presented Paper titled " <b>Edge Based Optimized Quad Tree Frame Skipping Technology Analysis for Mobile Video Frame</b> " at " <b>National Conference on Next Generation Computing and Information System</b> "   |

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|  |      | 14 <sup>th</sup> Feb 2009-15 <sup>th</sup> Feb 2009.  |
|  | 2008 | Presented Paper titled “ <b>NANO-CMOS Scaling</b> ” at “ <i>International Conference on Emerging Techniques in Computing, Electronics, and Embedded System &amp; VLSI Design</i> ”, 20-21 March 2008. |

**Research Supervised:**

| S.No.          | Name             | Entry No. | Supervisor        | Co-Supervisor     | Title of M.Tech. Thesis   |
|----------------|------------------|-----------|-------------------|-------------------|---|
| <b>2013-14</b> |                  |           |                   |                   |   |
| 1              | Suhaib Ahmed     | 2012EMC02 | Mr. Swastik Gupta | Mr. Ashish Suri   | An Adaptive Energy Efficient Fuzzy Clustering of Sensor Nodes For Landslide Detection     |
| <b>2014-15</b> |                  |           |                   |                   |   |
| 2              | Aakriti Viridi   | 14MMC001  | Mr. Ashish Suri   | Dr. Sumeet Gupta  | Performance Analysis of AODV & OLSR Protocols For Mobility Models In VANET                |
| 3              | Ankita Malhotra  | 2013EMC03 | Mr. Swastik Gupta | Mr. Ashish Suri   | Modelling and Sensor-Less Vector Control of Three Phase Squirrel Cage Induction Motor     |
| 4              | Aparna Sharma    | 2013EMC04 | Mr. Swastik Gupta | Mr. Ashish Suri   | Time Synchronization of IEEE 802.15.4 Complaint Devices with Global NTP Servers           |
| 5              | Isha Sharma      | 14MMC013  | Dr. Sumeet Gupta  | Mr. Ashish Suri   | Event Driven Switching Clustering For Efficient Data Gathering In Hazardous Applications  |
| 6              | Zubair Jan       | 2013EMC17 | Mr. Ashish Suri   | Mr. Swastik Gupta | Performance Characteristics of Energy Based Spectrum Sensing in Cognitive Radio           |
| 7              | Deeksha chalotra | 14MMC033  | Mr. S B Kotwal    | Mr. Ashish Suri   | Resizing Attack Proof Text Steganography In Spatial Domain                                |
| <b>2015-16</b> |                  |           |                   |                   |   |
| 7              | Amina Khan       | 15MMC002  | Mr. Swastik Gupta | Mr. Ashish Suri   | Network Layer Gateway for Data Exchange between IEEE 802.15.4 and IEEE 802.15.1 Protocols |
| 8              | Verasis Kour     | 15MMC018  | Mr. Ashish Suri   | Mr. Swastik Gupta | Comparative Study and Analysis of Existing Protocols for Data Transport in IoT Ecosystem  |

**Patents:** \_NA

**Award and Honours:** NA

**Professional Affiliation :**

| S. No. | Designation | Organization |
|--------|-------------|--------------|
| 1      | Life Member | ISTE, India  |

| S.No | Expert Lectures  |
|------|--|
| 1    | Resource Person for the <b>Three Month Foundation Training Program</b> organised by the <i>J&amp;K Institute of Management, Public Administration &amp; Rural Development</i> at their campus in Jammu from 10 <sup>th</sup> August to 9 <sup>th</sup> November 2017   |
| 2    | <b>Session Chair</b> at the <i>National Conference &amp; Exhibition on “Emerging and Innovative Trends in Engineering Technology”</i> (NCEEITET-16) on 11th -12th Nov., 2016 at GCET Campus, Chak Balwal, Jammu  |
| 3    | <b>Session Chair</b> at the <i>3rd National Conference and Exhibition on “Emerging and Innovative Trends in Engineering Technology”</i> (NCEEITET-15) on 15th -16th Sept, 2015 at GCET Campus, Chak Balwal , Jammu   |
| 4    | Delivered a Lecture on <b>“Matlab Graphics”</b> in the Two Weeks AICTE sponsored Short Term Course on <i>“Introduction to MATLAB and MATROX Imaging Library( MIL) with Emphasis on hands on Practice(WMMIL’11)</i> , (Dec, 16th -29th , 2011) at School of Electronics and Communication Engineering, SMVDU. |
| 5    | Delivered a Lecture on <b>“Matlab Graphics”</b> in the One Weeks Short Term Course on <i>“Introduction to MATLAB and MATROX Imaging Library ( MIL) with Emphasis on hands on Practice(SDPMMIL,12)</i> , (Dec, 23rd -27th , 2012) at School of Electronics and Communication Engineering, SMVDU               |
| 6    | Organised Two Week ISTE Workshop on <b>“Signal &amp; System”</b> in collaboration with IIT Kharagpur at SECE, SMVDU from 2nd Jan 2014 to 12th Jan 2104.  |

**Professional Affiliation (Short Term Course Attended)**

| S.No | Short Term Course Attended   |
|------|--|
| 1    | Attended AICTE ISTE Sponsored <b>Two Week</b> Short Term training Programme on <b>“Optical Communication –Emerging Trends It’s Role and Technology Appreciation”</b> at Department of Electronics & Electrical Communication Engineering, Punjab Engineering College , Chandigarh, from 31 <sup>st</sup> March to 11 <sup>th</sup> April 2003. |
| 2    | Attended AICTE ISTE Sponsored <b>Two Week</b> Short Term training Programme on <b>“Induction Training Programme for faculty of Engineering Colleges”</b> conducted by EDU. & EDCL. MGT from 4 <sup>th</sup> Dec. 2006 to 15 <sup>th</sup> Dec. 2006 at MIET , Kot Bhalwal, Jammu   |
| 3    | Attended TEQIP Sponsored <b>One Week</b> Short Term Course and Programme on <b>“VLSI Design &amp; Recent Trends in Nano- Electronics”</b> at Department of Electronics Communication Engineering, NIT Hamirpur from 18 <sup>th</sup> Dec.2006 to 22 <sup>nd</sup> Dec. 2006  |

|    |   |
|----|---|
| 4  | Attended TEQIP Sponsored <b>Two Days</b> Workshop on “ <b>Research Issues in Modern VLSI Devices</b> ” at Department of Electronics Communication Engineering, NIT Hamirpur from 6 <sup>th</sup> Dec. 2009 to 7 <sup>th</sup> Dec. 2009.  |
| 5  | Attended ISTE & Wipro Sponsored <b>One Week</b> Workshop on “Mission <b>10X</b> ” at Shri Mata Vaishno Devi University from 30 <sup>th</sup> Nov. 2009 to 4 <sup>th</sup> Dec. 2009.<br>Attended ISTE & Wipro Sponsored Two Days Workshop on “ <b>High Impact Teaching Skills</b> ” at Shri Mata Vaishno Devi University from 30 <sup>th</sup> Nov. 2009 to 4 <sup>th</sup> Dec. 2009 . |
| 6  | Attended AICTE/MHRD Sponsored Collaborative Summer School on “ <b>Instrumentation &amp; Signal Processing</b> ” jointly organized by National Institute of Technology and Dr. B.R. Ambedkar National Institute of Technology at NIT Srinagar from 21st June’2010 to 25 <sup>th</sup> June’2010.   |
| 7  | Attended AICTE Sponsored QIP Short Term Course on “ <b>VLSI_DSP Based Embedded System for Biomedical Applications</b> ” organized by CEP,IIT Kharagpur & Department of Electronics & Electrical Communication Engineering, Indian Institute of Technology, Kharagpur from 9 <sup>th</sup> July’2010 to 22 <sup>nd</sup> July’2010.  |
| 8  | Attended <b>Two Weeks</b> ISTE Workshop on “ <b>Basic Electronics</b> ” conducted by IIT Bombay at DOEACC Srinagar from 28 <sup>th</sup> June, 2011 to 8 <sup>th</sup> July, 2011.  |
| 9  | Attended Two Days Workshop on “ <b>ERP Mission</b> ” organised under the aegis of NMEICT at SMVDU from 5 <sup>th</sup> – 6 <sup>th</sup> Nov. 2011.   |
| 10 | Attended One Day Workshop on “ <b>Acquaintance Programme on Accelerator Based Research</b> ” held at School of Physics, SMVDU on 14 <sup>th</sup> June 2012.  |
| 11 | Attended two weeks ISTE Workshop on “ <b>Introduction to Research Methodologies</b> ” conducted by IIT Bombay at SMVDU from 25 <sup>th</sup> June, 2012 to 4 <sup>th</sup> July, 2012.  |
| 12 | Attended one week Coordinators Workshop on “ <b>Signals and Systems</b> ” conducted by IIT Kharagpur from 30 <sup>th</sup> September to 4 <sup>th</sup> October 2013.   |
| 13 | Attended One Week Short Term Course on “ <b>Computer Network using CCNA through ICT</b> ” conducted by Computer Science Department, NITTTR, Chandigarh from 10 <sup>th</sup> March to 14 <sup>th</sup> March 2014.  |
| 14 | Attended AICTE Recognized Short Term Course on “ <b>Recent Trends in Automobile Engineering</b> ”, conducted by NITTTR, Chandigarh through ICT (MHRD, Govt. of India) from 29 <sup>th</sup> Feb, 2016 to 4 <sup>th</sup> March, 2016 at SMVDU   |
| 15 | Attended AICTE Recognized Short Term Course on “ <b>Mobile Computing</b> ”, conducted by NITTTR, Chandigarh through ICT (MHRD, Govt. of India) from period 15 <sup>th</sup> Feb, 2016 to 19 <sup>th</sup> March, 2016 at SMVDU.   |
| 16 | Attended One Week AICTE Short Term Course on “ <b>Optimization using MATLAB through ICT</b> ” conducted by Mechanical Engineering Department, NITTTR, Chandigarh from 24 <sup>th</sup> Oct 2016 to 28 <sup>th</sup> Oct 2016 at SMVDU.  |
| 17 | Attended One Week AICTE Short Term Course on “ <b>Cloud Computing through ICT</b> ” conducted by Computer Science & Engineering Department, NITTTR, Chandigarh from 5 <sup>th</sup> Dec 2016 to 9 <sup>th</sup> Dec 2016 at SMVDU   |