

**SWASTIK GUPTA**  
**Assistant Professor (On-Leave)**  
**Electronics and Communication Engineering**  
**Shri Mata Vaishno Devi University, Katra**

**Contact No.: +91-9419850005**

**Email: swastik.gupta@smdvu.ac.in**

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**PERSONAL DETAILS**

- **Gender**                 Male
- **Marital Status**     Married
- **Nationality**         Indian
- **Address**             43/1A, Channi Himmat

**CURRENT JOB DETAILS**

- **Organization:**     Shri Mata Vaishno Devi University, Katra, J&K
- **Department:**     Department of Electronics and Communication Engineering
- **Designation:**     Assistant Professor
- **Association:**     From January 02, 2012 till date

**EDUCATION DETAILS**

BATCH	COURSE	SUBJECTS	INSTITUTION
2007-2009	M.Tech.	Electrical Engineering	IIT Kanpur
2003-2007	B.E.		GCET

**CERTIFICATE COURSES**

YEAR	PROGRAM	INSTITUTION	DURATION
2012	Embedded Systems	CDAC Hyderabad	2 Weeks
2009	Programming in Java	VDSI Hyderabad	2 Weeks
2006	IT Enabled Services	DOEACC JU	12 Weeks
2006	Computer Networking	DOEACC JU	12 Weeks
2005	Programming in C++	DOEACC JU	8 Weeks
2001	Programming in C	CEDTI GN	8 Weeks
2000	Computer Basics	CEDTI GN	8 Weeks

**RESEARCH INTEREST**

- Internet of Things, LR-WPANs, RFID Systems, NFC
- Data Network Protocols (Wired and Wireless)
- Embedded Systems and Real-Time Applications
- Power Electronics and Power System Stability

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**CONFERENCE PUBLICATIONS**

1. Zahoor, F; **Gupta, S**; Kakkar, V., “A Comparative Study of High Efficiency DC/DC Boost Converters for Medium Power Applications,” *Recent Trends and Advancements in Engineering and Technology (ICRTAET)*, 2015 Third International Conference on, vol., no., pp.1,6, 17-18, Nov, 2016
2. Sharma, S.; Kumar, S.; Keshari, A.; Ahmed, S.; **Gupta, S.**; Suri, A., “A Real Time Autonomous Soldier Health Monitoring and Reporting System Using COTS Available Entities,” *Advances in Computing and Communication Engineering (ICACCE)*, 2015 Second IEEE International Conference on, vol., no., pp.683, 687, 01-02, May, 2015
3. Tiwari, M.; Garg, H.; Tiwari, R.; Deep, A.; Yadav, A.; **Gupta, S.**, “Implementation of Accident Vehicle Tracking System- A smart app based tracking system”, *Knowledge Collaboration in Engineering (ICKCE) 2015*, Second IEEE International Conference on, vol., no., pp., , 27-28, March, 2015
4. **Gupta, S.**; Tiwari, M.; Garg, H.; Deep, A.; Yadav, A.; Gupta, A., “Transition from Analog To Digital Television A Much Awaited Change In India”, *Electrical, Computer and Communication Technologies (ICECCT) 2015*, IEEE International Conference on, vol., no., pp.,1439, 1445, 05-07, March, 2015
5. Sharma, A.; **Gupta, S.**; Suri, A., “Towards Standardization in Time Synchronization of Wireless Sensor Networks”, *Futuristic Trends in Computational analysis and Knowledge management (A-BLAZE 2015)*, IEEE International Conference on, vol., no., pp., , 25-27, Feb., 2015
6. Singh, A.K.; Tiwari, J.; Yadav, A.; **Gupta, S.**, “Real Time Autonomous Irrigation Module Design,” *Computational Intelligence and Communication Networks (CICN)*, 2014 IEEE International Conference on , vol., no., pp.1209,1213, 14-16 Nov. 2014
7. Ahmed, S.; Mahajan, A.; **Gupta, S.**; Suri, A., “An Optimal Selection of Routing Protocol for Different Sink Placements in a Wireless Sensor Network for Landslide Detection System,” *Computational Intelligence and Communication Networks (CICN)*, 2014 IEEE International Conference on , vol., no., pp.358,363, 14-16 Nov. 2014
8. **Gupta, S.**; Gupta, A., “Implementation of an Embedded Gateway-cum-Message Broker Framework for IEEE 802.15.4 - IPv4 Networks,” *Devices, Circuits and Communications (ICDCCom)*, 2014 IEEE International Conference on , vol., no., pp.1,5, 12-13 Sept. 2014
9. Mishra, S.; Naveen, I S; Purkayastha, S.; Bargotra, V.; **Gupta, S.**, “Community Health Device Manager with Active Calibration”, *IEEE Student Application Papers Applying Industry Standards*, 2014
10. Chaudhary, AK.; Pratik, P.; **Gupta, S.**; Kakkar, V., “Improved digital design of BPSK modulator using look-up table technique,” *Advances in Computing, Communications and Informatics (ICACCI)*, 2013 IEEE International Conference on , vol., no., pp.47,52, 22-25 Aug. 2013
11. Mahajan, A.; **Gupta, S.**, “Interference Evaluation of Different Wireless Systems Operating in 2.4 GHz ISM Band” *VLSI, Signal processing & Communications (NCVSComs)*, 2013 National Conference on, vol., no., pp.65,68, 11-12 Dec. 2013
12. Bashir, M.; Ahmed, S.; **Gupta, S.**, “Mitigation of Interference between Wi-Fi, Bluetooth, ZigBee, UWB and Microwave Oven” *Emerging Technologies in Electronics and Communication (ICETEC)*, 2013 International Conference on, vol., no., pp.271,274, 20-22 Dec. 2013

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**JOURNAL PUBLICATIONS**

1. Nazeer, T; **Gupta, S**; Kotwal, SB, “A Review of Grid Connected Photovoltaic Systems” *International Journal of Emerging Technologies in Engineering Research*, vol. 5, no. 9, pp.20,30, Sep. 2017
2. Kour, A; **Gupta, S**, “A Survey on Implementation of Audio over 802.15.4” *International Journal of Recent Scientific Research*, vol. 8, no. 5, pp.16823,16828, May 2017
3. Zahoor, F; **Gupta, S**; Kakkar, V, “High Efficiency DC/DC Boost Converters for Medium/High Power Applications” *International Journal of Hybrid Information Technology*, vol. 9, no. 11, pp.67,78, Nov. 2016
4. Mahajan, A; Ahmed, S; **Gupta, S**; Suri, A, “Comparative Analysis of Different Data Dissemination Strategies in Wireless Sensor Networks” *International Journal of Advanced Research in Computer and Communication Engineering*, vol. 3, no. 4, pp.6350,6354, April. 2014
5. Khajuria, G.; Gupta, A.; Ahmed, S.; Mahajan, A.; **Gupta, S.**, “Application of RFID and Wireless Sensor Network for Optimizing the Dynamic Placement of Materials in Storage Houses” *International Journal of Advanced Research in Computer Science and Software Engineering*, vol. 3, no. 11, pp1368,1372, Nov. 2013
6. Mishra, S.; Naveen, I S; Purkayastha, S.; **Gupta, S.**, “Design of Adaptive Humidity Controller and Practical Implementation for Humidity and Temperature Exclusiveness” *International Journal of Advanced Research in Computer Science and Software Engineering*, vol. 3, no. 6 , pp300,305, June. 2013

**TRAINING PROGRAMS ATTENDED**

1. One week AICTE Recognized Short Term Course on “**Optimization through MATLAB through ICT**”, conducted by NITTTR, Chandigarh through ICT (MHRD, Govt. of India) from 24-10-2016 to 28-10-2016 at SMVDU, Remote Centre
2. One week AICTE Recognized Short Term Course on “**Mobile Computing through ICT**”, conducted by NITTTR, Chandigarh through ICT (MHRD, Govt. of India) from 15-03-2016 to 19-03-2016 at SMVDU, Remote Centre
3. One week AICTE Recognized Short Term Course on “**Recent Trends in Automobile Engineering through ICT**”, conducted by NITTTR, Chandigarh through ICT (MHRD, Govt. of India) from 29-02-2016 to 4-03-2016 at SMVDU, Remote Centre
4. Four weeks “**General Orientation Course**” conducted by HRDC, JU from 14-12-2015 to 12-01-2016
5. One week AICTE Recognized Short Term Course on “**Computer Network using CCNA through ICT**”, conducted by NITTTR, Chandigarh through ICT (MHRD, Govt. of India) from 10-03-2014 to 14-03-2014 at SMVDU, Remote Centre
6. Two weeks Faculty Updation Program on “**Hardware and Firmware Design for ARM based Embedded systems**” conducted by Centre for Development of Advanced Computing, Hyderabad & Jawaharlal Nehru Technological University, Hyderabad from 18-6-2012 to 29-6-2012
7. One day National level workshop on “**Mobile & Ubiquitous learning**” conducted by centre for development of Advanced Computing (C-DAC), Hyderabad and School of IT, Jawaharlal Nehru Technological University Hyderabad (JNTUH), India held on 03-04-2012 in JNTU, Hyderabad

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**BOOKS PUBLISHED**

1. Ahmed, S; **Gupta, S**; Suri, A, “Adaptive Energy Efficient Fuzzy Clustering for Landslide Detection: A Wireless Sensor Network Based Approach” *Lambert Academic Publishing*, ISBN-9783659922282, 2016
2. Ahmed, S; **Gupta, S**; Suri, A, “Reliable and Energy Efficient Data Dissemination in Sensor Networks” *Lambert Academic Publishing*, ISBN- 9783330045101, 2017

**M.TECH. THESES 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
2	Aayushi Mahajan	2012EMC04	Mr. Swastik Gupta	--	Energy Efficient and Reliable Data Dissemination Strategy in WSN for Early Warning of Landslides
<b>2014-15</b>					
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	Zubair Jan	2013EMC17	Mr. Ashish Suri	Mr. Swastik Gupta	Security Issues in Cognitive Radio Networks
<b>2015-16</b>					
6	Azleen Kour	14MMC006	Mr. Swastik Gupta	Mr. Shashi B Kotwal	Implementation of Audio Profile over IEEE 802.15.4
7	Sunny Kumar	14MMC022	Mr. Swastik Gupta	Dr. Sumeet Gupta	Mitigation of Passive RFID Tag/Reader Collision
8	Sameya Bilal	14MMC018	Dr. Vipan Kakkar	Mr. Swastik Gupta	Adaptive Dynamic Power Management in Biomedical Implants
9	Sandeep Tuli	14MMC020	Dr. Vipan Kakkar	Mr. Swastik Gupta	Development of Medium Power High Efficiency

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					Multi-level Buck-Boost DC-DC Converter
10	Furqan Zahoor	14MMC	Dr. Vipan Kakkar	Mr. Swastik Gupta	Development of Medium Power Boost Converter for Enhanced Light Load Efficiency
<b>2016-17</b>					
11	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
12	Tamanna Nazeer	15MMC015	Mr. Swastik Gupta	Mr. Shashi Bhushan Kotwal	A Modified Variable Step Size Incremental Conductance MPPT Algorithm for Photovoltaic Systems
13	Verasis Kour	15MMC018	Mr. Ashish Suri	Mr. Swastik Gupta	Comparative Study and Analysis of Existing Protocols for Data Transport in IoT Ecosystem
<b>2017-18</b>					
14	Tarun Bali	16MMC017	Mr. Swastik Gupta	Mr. Shashi Bhushan Kotwal	IoT Middleware: Proposal of State-of-The-Art Architecture
15	Druvika Pandita	16MMC007	Mr. Swastik Gupta	Intel, Bangalore	Detection and Segmentation of the Trash in the Wild via Deep Convolutional Neural Network: A Computer Vision Machine Learning Approach
16	Drishti Kakar	16MMC006	Mr. Ashish Suri	Mr. Swastik Gupta	XML based Request-Response Model for Data Transaction and Presentation in LR-WPAN based WSNs
17	Sonali Mahajan	16MMC016	Mr. Ashish Suri	Mr. Swastik Gupta	Enabling Multicast in IEEE 802.15.4 Networks