Curriculum Vitae

1.	**Personal Details**		
(i)	Name	**MANISH PANCHAL**	
(ii)	Qualification	M. Tech.	
(iii)	Email Address	hellopanchal[at]gmail.com mpanchal[at]sgsits.ac.in	
(iv)	Employee Number	0409102	
(v)	Designation	Associate Professor	
(vi)	Department	Electronics and Telecommunication	
(vii)	Experience	18 Years	

2.	**Educational Qualifications**				
No.	**Degree**	**Year**	**University/Institute**	**Division**	**Specialization**
(i)	**Ph.D. (Pursuing)**	**REG. SEP 2016**	**DAVV Indore**		**Cross layer design issues for wireless networks**
(ii)	**M.Tech.**	**2010**	**IIT Kharagpur**	**I**	**Telecommunication System Engg.**
(iii)	**B.E.**	**2001**	**SGSITS Indore**	**I**	**Electronics & Telecommunication**
(iv)	**Diploma**	**1998**	**Govt. Polytechnic Ujjain**	**I**	**Electronics & Communication**

3.	**Area of research interest**
	Optical & Computer networks, Embedded systems

4	**Technical Papers Publication**
(I)	**International and National Journals**
(i)	Mayuri Rao, Mr.Manish Panchal and Mrs.Rekha Jain **"ML Estimation of Initial Symbol Timing and Frequency Offset in OFDM System"**, International Journal of Engineering Research and Applications (IJERA 12), April 2012.
(ii)	Aditya Kothari, Manish Panchal, Rekha Jain, "**Hybrid Spread Spectrum Based Smart Meter Network Using Fast Frequency Hopping**", International Journal of Computer Application (IJCA 2014) , 100(2): pp.39-42 August 2014.
(iii)	Piyush Malviya, Rekha Jain and Manish Panchal "**Reliable data aggregation including security based on AES and functional reputation**" International Journal of Engineering sciences and Research Technology (IJESRT), page 681-688, 5(8): August, 2016
(iv)	Ankita Sahu, Manish Panchal, and Rekha Jain. "**Massive MIMO Challenges and Emerging Research Directions: A Review.**" IUP Journal of Telecommunications 10.1 (February 2018): 20-32.
(v)	Himani Lodwal, Anjulata Yadav and Manish Panchal " **A Quality of Service (QoS) Aware Scheduling Algorithm to Boost QoS of Cell-Edge Users in LTE Networks**" International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-

	3878, Volume-8 Issue-2, July 2019
(vi)	Manish Panchal, Raksha Upadhyay, Prakash Vyavahare, **"Trust-Based Co-Operative Cross-Layer Routing Protocol for Industrial Wireless Sensor Networks"** , International Journal of Computer Networks and Applications (IJCNA), 9(3), PP: 292-304, 2022, DOI: 10.22247/ijcna/2022/212555 (Scopus indexed)
(II)	**International /National Conferences**
	International Conferences:
(i)	Mithun Sarode and Manish Panchal "**Preamble Detection of IEEE 802.16**" ICNEAC-2011, Swarnadhara college of Engineering & Technology Narsapur (AP) (9th July 2011)
(ii)	Aditya Nalwaya, Dr. P D Vyavhare and Manish Panchal "**Verifiable Dynamic Multi-Secret Sharing Scheme**" 12th International conference on security and management (SAM'2013) Las Vegas, USA (July 22-25, 2013)
(iii)	Vidya Bhaskar Shukla, Manish Panchal and L. D. Malviya "**Peak-to-Average power reduction in OFCDM system to enhance the spectral efficiency**" 4th International conference Confluence 2013 - The Next Generation Information Technology Summit, AMITY University (September 26-27, 2013)
(iv)	Neelanshu Khare, Anurag Shrivastava and Manish Panchal **"A Low Latency AODV Routing Protocol**" IEEE international conference on Computational Intelligence and Communication Networks (CICN-2013), GLA university Mathura, (September 27-29, 2013)
(v)	Akanksha Gupta, P D Vyavahre and Manish Panchal "**An Improved Threshold Proxy Signature Scheme**", SECURWARE 2015: The Ninth International Conference on Emerging Security Information, Systems and Technologies, Venice Italy: Page 62-67, August 2015.
(vi)	Mritunjay Kumar Chourasia, Manish Panchal and Anurag Shrivatava "**Energy Efficient Protocol for Mobile Wireless Sensor Networks**" IEEE International conference on communication, Control and Intelligent Systems (CCIS-2015), GLA University Mathura, Page 83-88, November 2015.
(vii)	Nisha Patel, P. D. Vyavahare and Manish Panchal, "**A novel verifiable multi-secret sharing scheme based on Elliptic curve cryptography**" Proc. of The Tenth international conference on emerging security information, systems and technologies, SECUREWARE 2016 (IARIA), pp. 230-234, 24-28 July 2016, **Nice, France**
(viii)	Deepa Mukherjee, P. D. Vyavahare and Manish Panchal, "**An improved ID based proxy signature scheme based on Elliptic curve cryptography**" Proc. of The Tenth international conference on emerging security information, systems and technologies, SECUREWARE 2016 (IARIA), pp. 235-240, 24-28 July 2016**, Nice, France**
(ix)	Ashok Parmar, Manish Panchal and Anurag Shrivatava "**Time Resource Partition Among Users In HetNet Using Reduced Power Subframe**" IEEE International conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2016) 22 & 23, September, 2016 (CCIS-2015), September 22-23,2016 SRM University Ghaziabad (UP)
(x)	Sapna Singh, Manish Panchal and Rekha Jain "**Fuzzy Logic Based Energy Efficient Network Lifetime Optimization in Wireless Sensor Network**" IEEE International conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2016) 22 & 23, September, 2016 (CCIS-2015), September 22-23,2016 SRM University Ghaziabad (UP)

(xi)	S. Modi, M. Panchal and A. Yadav, "**Energy Efficient Wireless Sensor Network using Fuzzy Logic**," 2017 IEEE International Conference on Current Trends in Computer, Electrical, Electronics and Communication (CTCEEC), Mysore, India, 2017, pp. 459-462.
(xii)	A. Doneriya, M. Panchal and J. D. Lal, "**Performance Analysis of Linear Precoding Techniques over the Fading Channel for MU-MIMO**," 2018 IEEE International Conference on Advanced Computation and Telecommunication (ICACAT), Bhopal, India, 2018, pp. 1-6. DOI: 10.1109/ICACAT.2018.8933697
(xiii)	Manish Panchal, Raksha Upadhyay and P D Vyavahare "**A novel energy efficient approach on packet delay minimization in Wireless Sensor Networks**" In IEEE International Conference Advanced Networks and Telecommunications Systems (ANTS) Indore, Dec 16-19,2018
(xiv)	S. Sharma, A. Yadav, M. Panchal and P. D. Vyavahare, "**Classification of Security Attacks in WSNs and Possible Countermeasures: A Survey**," 2019 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), GOA, India, Dec 2019, pp. 1-6, doi: 10.1109/ANTS47819.2019.9118119.
(xv)	M. Panchal, R. Upadhyay and P. D. Vyavahare, "**Cross-Layer based Energy Efficient Reliable Data Transmission System for IoT Networks**," 2022 IEEE 11th International Conference on Communication Systems and Network Technologies (CSNT), 2022, pp. 527-532, doi: 10.1109/CSNT54456.2022.9787600.
(xvi)	A. Porwal, S. K. Mishra, A. Kela, G. Singh, M. Panchal and A. Jain, "**Prediction and Prevention of Water Pollution by Industries using IoT based Monitoring System**," 2022 IEEE 11th International Conference on Communication Systems and Network Technologies (CSNT), 2022, pp. 504-509, doi: 10.1109/CSNT54456.2022.9787664
(III)	**National Conferences:**
(i)	Girish Tiwari and Manish Panchal "**Security in next generation mobile**" National conf. on Electronics & communication, Jabalpur Engineering college, Jabalpur. (2006)
(ii)	Mithun Sarode and Manish Panchal "**Performance of Wimax Physical layer**", National conf. on recent trends in Electronics & communication, S. D. Bansal Institute of Technology & Science Indore, April 9, 2011
(iii)	Mayank Bhardwaj and Manish Panchal "**Security topology in wireless sensor network with Routing optimization**" ECOMM-2011, S. D. Bansal Institute of Technology & Science Indore, April 9, 2011
(iv)	Mithun Sarode and Manish Panchal "**Wimax Implementation on physical layer using OFDM technique**" , NCRTEEE 2011, Medicaps Institute of Technology & Science Indore, May 14, 2011
(v)	Mayank Bhardwaj and Manish Panchal "**Security in Wireless sensor Network** " , NCRTEEE 2011 , Medicaps Institute of Technology & Science Indore, May 14, 2011
(vi)	Mayuri Rao and Manish Panchal "**4G Wireless Technology : A Survey paper**", NCNTE-2012, Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Feb 24-25,2012
(vii)	Satish Rajput, Anjulata Yadav and Manish Panchal "**LWX Wimax simulator for mesh Networking** " , Technologia 2012, Christian college of Engineering and Technology Bhilai, March 1-2, 2012

(viii)	Ajay Sherawat, Dr. P D Vyavahare and Manish Panchal **"An efficient dynamic multi-secret sharing scheme with cheater detection"** National Conference AMS-2012, MNNIT, Allahabad

5.	**List of Conference/Workshops Organized**
(i)	One Week TEQIP Sponsored Short Term Training Program on "Recent Trends In communication Networks" during 8-12 December 2014
(ii)	Two days Code level training on "Qualnet for protocol development" on 23/03/2013 & 24/05/2013
(iii)	Two days workshop on "Technical Report Writing and Presentation Development using Latex" during 23-24 March 2018
(iv)	One day session on "Telecom Industry and Technology Trends" on 05/10/2018
(v)	One day seminar on "Future Trends of research in Electronics and Telecommunication" on 30/10/2018
(vi)	Instructor in one day in "Student Solar Ambassador Workshop" organized by IIT Bombay on 02/10/2019 (Central Jail Indore)
(vii)	Webinar on "Mixed Signal Design- Testing and Challenges" organized by E&TC Dept. on 27/06/2020 (Pradeep Nair – Texas Ins. Bangalore)
(viii)	One week AICTE ATAL Faculty Development Program on "Recent Trends in Internet of Things" (Duration September 20-24,2021)

6.	**Invited Lectures/Talks Delivered**
(i)	Expert Lecture on "Optical communication and Networks" at S D Bansal college of Technology and Science Indore – May 2013
(ii)	Expert Lecture on "Safe Road: Engineers view Points" at Shri GS Institute of Technology and Science Indore with joint collaboration of Indore Traffic Police & Arihant Hospital (25th January 2021)
(iii)	Expert Lecture on "Sadak Surksha Jeevan Surkasha" at PS Academy Indore (8th February 2021)
(iv)	Expert Lecture on "Sadak Surksha Jeevan Surkasha" at SAGE University Indore (16th February 2021)
(v)	Expert Lecture on "Road Safey Issues" at Acropolis Institute of Management studies & Research Indore (17th February 2021)
(vi)	Expert Lecture on "Wearable IoT Devices" in AICTE ATAL sponsored online FDP on "IoT for Emerging Technical Applications" at Acropolis Institute of Management studies & Research Indore (9th June 2021)
(vii)	Expert Lecture on "Moodle LMS- Student Roll" in FDP on "Moodle – Learning Management Software" organized by Computer Science Engineering Department SGSITS Indore (30th July 2021)

7.	**Any other information**
(I)	**Book Chapters**

(i)	Sahu A., Panchal M., Jain R. (2018) "**Energy-Efficient Optimum Design for Massive MIMO**". Advanced Computational and Communication Paradigms. Lecture Notes in Electrical Engineering (LNEE), vol 475. Springer, Singapore, pp 378-386
(ii)	A Doneriya., M. Panchal, J.D. Lal (2020) "**Optimization of Block Diagonalization for MU-MIMO Downlink System Using PSO**". In: Nain N., Vipparthi S. (eds) 4th International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2019. ICIoTCT 2019. Advances in Intelligent Systems and Computing, vol 1122. Springer, Cham. Online ISBN: 978-3-030-39875-0
(iii)	Himani Lodwal, Anjulata Yadav, and Manish Panchal. "**A Novel Algorithm to Improve Quality of Service of Cell Edge Users in LTE.**" In International Conference on Advanced Computing Networking and Informatics, pp. 237-245. Springer, Singapore, 2019 (Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 870)) **Print ISBN** 978-981-13-2672-1, **Online ISBN** 978-981-13-2673-8, https://doi.org/10.1007/978-981-13-2673-8_26
(II)	**<u>Membership of Professional Society</u>**
	IEEE, ISTE (LM), IETE (LM) and IE (I) (LM)

Manish Panchal
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