


CURRICULUM VITAE

1. Personal Information			
(i)	Name	Shekhar Sharma	
(ii)	Qualification	Ph.D	
(iii)	Designation	Professor & Head	
(iv)	Email-id	Shekhar.sgsits@gmail.com	
(v)	Employee No.	0400228	
(Vi)	Department	Electronics & Telecommunication	
(vii)	Experience	27 Years	

2. Educational Qualification				
S. No.	Degree	Specialization	Year	University/Board
1.	Ph.D.	Electronics Engineering	2017	DAVV Indore
2.	M.E	Electronics Engineering	1991	Anna University, Madras
3.	A.M.I.E	Electronics & Communication	1988	The Institution of Engineers (India)

3. Research Interests	
Digital Signal Processing, Digital Communication	

4. Research Paper Publications	
(I) International/National Journal Publications	
<ol style="list-style-type: none">1. Shekhar Sharma, L.D Arya and Sumant Katiyal, "Design of Linear-Phase Digital FIR Filter Using Differential Evolution Optimization with an Improved Ripple Constraint Handling Method," <i>BIJIT (BVICAM's International Journal of Information Technology)</i> Vol. 7, Issue. 1, Jan.-June 2015, pp.835-840, ISSN No. 0973-56582. Shekhar Sharma and L. D. Arya, "Design of discrete-time Linear phase FIR filter and Differentiator using Particle Swarm Optimization, <i>IJCEE (International Journal of Computer and Electronics Engineering)</i> (ISSN No. 0975-4202) Vol. 2, Issue 1, pp. 1-12, Jan.2010	

3. Aditya Vikram Singh and Shekhar Sharma, "Implementation of Voice Excited Linear Predictive (VELP) Coding on TMS320C6713 DSP Kit," *The IUP Journal of Telecommunications*, (ISSN No. 0975-5551)Vol.7, No. 4, pp. 38-49, Nov. 2015.
4. Shekhar Sharma, Sumant Katiyal, L.D Arya, "Performance Comparison of Teaching-Learning-Based Optimization and Particle Swarm Optimization Algorithms Applied to the Design of Adaptive Channel Equalizer," *IUP Journal of Telecommunication*, (ISSN No. 0975-5551)Vol. 7 , No. 3, pp. 7-28, Aug. 2015.
5. Sumit Ganvir and Shekhar Sharma, "Real-time Implementation of Variable Step Size LMS Adaptive Filtering Algorithm," *The IUP Journal of Electrical and Electronics Engineering*, (ISSN No. 0974-1704), Vol.8, No. 3, pp. 7-16, July 2015.
6. Shekhar Sharma, Sumant Katiyal, L.D Arya , "Performance Comparison of Teaching-Learning-Based Optimization and Differential Evolution Algorithms Applied to the Design of Linear Phase Digital FIR Filter," *IUP Journal of Telecommunication*, (ISSN No. 0975-5551)Vol. 7 , No. 1, pp 16-31, Feb. 2015
7. Ranbeer Tyagi and Shekhar Sharma, "Image compression using DPCM with LMS Algorithm," *Journal of Communication and Computer* 8, pp. 490-493, June 2011
8. Shekhar Sharma and L. D. Arya, "Design of FIR digital filters using particle swarm optimization," *Journal of the Institution of Engineers (India) ET*, (ISSN No. 0251-1096), Vol. 91, pp. 11-19, 2010.
9. R. Narendra Prasad, Shekhar Sharma and Anjana Jain, "Simulation of adaptive filter used for echo cancellation," *Journal of the Institution of Engineers (India) ET*, (ISSN No. 0251-1096), Vol. 88, pp. 64-69, 2007.

(II) International/National Conference Publications

1. Shital Ganorkar, Shekhar Sharma, Anjana Jain, Implementation of FIR Adaptive Filter with FPGA, 11th International Conference on Communication Systems and Network Technologies, CSNT-2022, 22-23 April 2022.
2. Shital Ganorkar, Shekhar Sharma, Anjana Jain, Soft Computing Algorithms and Implementation on FPGA- A Review, International Conference on Smart Data Intelligence, ICSMDI 2021, Tiruchy, 29-30 April 2021.
3. Shekhar Sharma, Sumant Katiyal, L.D Arya, Design of Adaptive filter using a Novel Algorithm Jaya for Identification of Non-Linear Systems, IEEE International Conference on Computing for Sustainable Global Development, INDIACom-2017 , 1st – 3rd March, 2017 BVICAM, New Delhi
4. Shekhar Sharma, Sumant Katiyal, L.D Arya, "Identification of Parameters of Digital IIR Filters Using Teaching-Learning Optimization Algorithm and Statistical Inference Comparison with Particle Swarm Optimization Algorithms," *IEEE International Conference on Computing for Sustainable Global Development, INDIACom-2016* ,16th – 18th March, 2016 ,BVICAM, New Delhi
5. Shekhar Sharma, Sumant Katiyal, L.D Arya, "An improved Teaching-Learning-Based Optimization Algorithm applied to the design of linear phase digital FIR filter," *IEEE International Conference on Computing for Sustainable Global Development, INDIACom-2015* , 11th – 13th March, 2015 , BVICAM, New Delhi
6. Shekhar Sharma, Sumant Katiyal, L.D Arya, "Design of linear-phase digital FIR filter using differential evolution optimization with ripple constraint," *IEEE International Conference on Computing for Sustainable Global Development, INDIACom-2014* , 5th – 6th March, 2014 , BVICAM, New Delhi
7. Kamlesh Gupta, Mahima Mehta, Shekhar Sharma, Anjana Jain and Preeti Trivedi, "A performance comparison of zero forcing and MMSE equalization techniques to minimize ISI in a noisy environment," *International Conference of IETE ICETTC-2007*, 10th -11th

- Jan. 2007, IETE Mumbai Centre
8. Kamlesh Gupta, Mahima Mehta, Shekhar Sharma, Anjana Jain and Preeti Trivedi, "Approaches to Minimizing the Effects of Residual ISI in Statistical sense," *International Conference on Advanced Communication Systems, ICACS-2007*, 10th -12th Jan., 2007, Govt. College of Technology, Coimbatore.
 9. R. Narendra Prasad and Shekhar Sharma, "Performance evaluation of hybrid echo canceller based on adaptive filter," *International conference*, , *ICNGN 2006* , 10th-11th Feb. 2006 , IETE Mumbai Centre.
 10. Dipak Adhyaru, Shekhar Sharma, Ashish Thakur and Apurva Gaiwak, "Detection of QRS complex for ECG using Median filter," 2nd *International Conference on Knowledge Management i-Maze*, 21st -23rd Oct. 2002 ,IIPS, DAVV, Indore.
 11. Rupesh Dubey and Shekhar Sharma, "Implementation of the BPSK Modulator on the TMS 320C6713, DSP Processor using CCSv 3.1," *National conference on Emerging Trends in Electronics Engg. and Tech., ETEET- 08*, 2008, Ujjain, 2008.
 12. Dipak P. Patil, Shekhar Sharma and D.P. Sonavane, "Architecture for Reed- Solomon Codes," National conference on current trends in Technology, *NUCONE-2006*, 30th Nov. - 2nd Dec., 2006.
 13. R. Narendra Prasad and Shekhar Sharma, "Linear predictive filter and its performance analysis," *National Conference on Broad band Communication, NCBBCOM -2005* , 11th -12th Feb., 2005.

5. List of Conferences/Workshops/Seminars Organized

1. Coordinator for two days seminar on "Mathematical Techniques in Wireless Networks" , SGSITS Indore under TEQIP-III, October 27-27,2017
2. Organizing Committee member for two days workshop on "Academic Institute Satellite and Launching" , SGSITS Indore under TEQIP-II, February 17-18, 2017.
3. Organizing Committee member for one day seminar on "Communication and Cryptography", SGSITS Indore under TEQIP-II, April 30, 2016.
4. Coordinator for one day workshop on "PG Project Initiative: Institute Industry Interaction" SGSITS Indore under TEQIP-II, August 12, 2016.
5. Organizing Committee member for one week workshop on "Fundamentals and Applications of SDR and MIMO communication", SGSITS Indore under TEQIP-II, November 30- December 04, 2015.
6. Organizing Committee member for one week STTP on "Application of Embedded System in Wireless Communication", SGSITS Indore under TEQIP-II, August 10-14, 2015.
7. Organizing Committee member for one week STTP on "Recent Trends in Communication Networks", SGSITS Indore under TEQIP-II, December 08-12, 2014.
8. Coordinator for one week STTP on "Fundamental and Application of Wireless Communication", SGSITS Indore under TEQIP-II, January 27-31 2014
9. Coordinator for two week ISTE workshop on "Signals and Systems", SGSITS Indore (Conducted by IIT-Kharagpur), January 02-12, 2014.
10. Organizing Committee member for one week STTP on "Soft computing Techniques in RF & Microwave", SGSITS Indore under TEQIP-II, December 02-06, 2013.

6. Invited Lectures/Expert Talks/Chairmanships at Conferences

1. Invited for delivering an Expert lecture on “Information Theory and Coding” at Indore institute of Science and Technology, Indore on December 26, 2011.
2. Invited for delivering an Expert lecture on “Optimum detection Theory” at Acropolis technical Campus, Indore on October 12, 2012.
3. Invited for delivering an Expert lecture on “Optimum detection Theory” at Sushila Devi Bansal College of Technology, Indore on December 4, 2013.
4. Delivered an Expert lecture in One week short term course at SGSTS on “Fundamentals and applications of SDR and MIMO communication systems” on January 27-31, 2014.
5. Invited for delivering an Expert lecture on “Information Theory and Coding”, at Acropolis technical Campus, Indore on October 31, 2014.
6. Invited for delivering an Expert lecture on “Adaptive filters”, at Medi-caps Groups of Institutions, Indore on April 8, 2016.
7. Invited for delivering an Expert lecture on “Noise and effects in Amplitude Modulation” at Acropolis technical Campus, Indore on April 24, 2017.
8. Visiting lectures at IIT, Indore at B.Tech. and M. Tech. level for the Subjects: “Digital Communication” and “Information and Coding Theory”, from 20/03/2018 to 20/04/2018.

7. Other Relevant Information
Membership of Professional Society: ISTE (LM), IETE (AM), IE (I) (AM)

Dr. Shekhar Sharma
Professor & Head, E&TC