

BIO DATA

- 1. Date of Birth** : 8/5/1977
- 2. Date of Joining** : 12th Oct.2007
- 3. Highest Qualification** : M. Tech
- 4. Designation** : Assistant Professor
- 5. Date of Joining** : 12/10/2007



6. Research Ares of Interest :

- Wireless Communication, Signal Processing, Image/Video Compression and transmission

7. Research Paper Publications:

International Conference/seminar:

2009

- [1] Ms Jigisha Patel , Binod,Ashish,Jhanak, “Wireless Lan: Security threats, Issues and Best Practices”, ICSCI 2009, Dr MCR HRD Institute Jubilee hills, Hyderabad, Pp 386-392, Vol.1, 7-10 2009.
- [2] Ms Jigisha Patel, Mr Amit Degada,” Channel Estimation and Rake reception for 3G Air interface WCDMA”, ARTCOM 2009, Kottayam, Kerala, Sponsored by IEEE Computational Intelligence Society, pp 351-356, 27-28 Oct 2009.
- [3] Prof Jigisha Patel, Ms Khyati Desai “Review of Peak to Average Power Ratio Reduction Techniques in OFDM, ICETET-09, G.H Rasoni College of Eng , Nagpur, Poster Presentation, 16-18 Dec 2009.
- [4] Prof Jigisha Patel, Ms Vaibhavi Lineswala” JPEG Image compression and telecommunication over wireless channel “International conference on ACT-2009, Trivandrum, Kerala, pp 641-643, 28-29 Dec, 2009.
- [5] Prof Jigisha Patel, Ms Khyati Desai, “SLM and Modified SLM scheme for PAPR Reduction for OFDM systems” ICSSA-2009,GCET, Vallabhvidyanagar, 28-29,Dec-2009.
- [6] Prof Jigisha Patel, Mr Swapnil shah, “FPGA Implementation of OFDM Modem”, ICSSA-2009, GCET, Vallabhvidyanagar, 28-29, Dec-2009.

2007

- [7] Ms Jigisha Patel, Mrs Upena Dalal,” A comparative performance analysis of OFDM using MATLAB simulation with M-PSK and M-QAM mapping”, ICCIMA 2007,Shivakashi, IEEE CS Press, pp 407-411 ,Vol. IV, 13-15 Dec. 2007

National Conference:

2009

- [8] Ms Jigisha Patel, Mr Veerana, “Admission Control Framework For UGS service IEEE 802.16(WiMAX) Broadband Wireless Network”, National Conference on Futuristic Advancements in Computing & Electronics, Deccan college of Engineering & Technology, Hyderabad, Pp 45-49, Vol 1, 19-21 MAR 2009.
- [9] Ms Jigisha Patel, Mr Amit Degada,” Simulation of WCDMA Downlink Transmitter operating in FDD mode” National conference on Advanced Communication Technologies & Application, Geetangali Institute of Technical Studies Dabok, Udaipur, Vol: 1, 13-14 May 2009.
- [10] Ms Jigisha Patel, Mr Veerana,” Control Framework For RTPS service IEEE 802.16(WiMAX) Broadband Wireless Network” National conference on Advanced Communication Technologies & Application, Geetangali Institute of Technical Studies Dabok, Udaipur Pp 92-95,Vol: 1,13-14 May 2009.
- [11] Prof Jigisha Patel, Mr Swapnil shah, “FPGA Implementation of QAM Modem”, 2nd National Conference on Emerging Trends in Information Communication Technologies, C.U. Shah college of Eng & Technology, Surendranagar, Gujarat, Pp 90-92, Vol 1, 19 April 2009.
- [12] Prof Jigisha Patel, Ms Khyati Desai, “PAPR reduction Technique SLM for OFDM”, IETE conference of RF & wireless, IETE centre Bangalore 7-10,Oct 2009

2008

- [13] Ms Jigisha Patel, Mr J N Sarvaiya,” Convolution Coded OFDM – Performance Analysis includes Interleaver for different Code Rate”, National conference on Advance Communication Technique, Alagappa chettiar college of Engg. & Technology, Karaikudi, Tamilnadu, Pp 45, Vol 1, 9 March 2008.

- [14] Ms Jigisha Patel, Mr J N Sarvaiya , Ms Shilpi Gupta“Comparison of MIMO Channel Capacity with various Wireless Channel models” National conference on Technological Innovation, BRCM College Of Engg. & Tech, Bhiwani, Haryana , India , Pp 262-264, Vol 1,11-12 OCT 2008.
- [15] Ms Jigisha Patel, Mr Veerana,” Connection Admission Control Framework with QoS Support for IEEE 802.16(WIMAX) Broadband wireless Network”, Advancement in wireless technologies & its applications, SVNIT, Surat, Pp 50-55, Vol1, 18-19 DEC 2008
- [16] Ms Jigisha Patel, Mr Amit Degada, “Channel Adaptive Hybrid ARQ/FEC for Robust Video transmission over 3G Mobile Communication”, Advancement in wireless technologies & its applications, SVNIT, Surat, Pp 50-55, Vol1, 86-89, DEC 2008.

8. M Tech Dissertation Supervision:

- (i) Mr Amit Degada, “Simulation of 3G air interface WCDMA”(2008-09)
- (ii) Mr Veerana, “CAC Frame with QOS support for IEEE 802.16 Broad band Wireless Network” (2008-09)
- (iii) Mr Swapnil Shah, “VLSI based OFDM” (2008-09)
- (iv) Ms Khyati Desai, “ PAPR Reduction Techniques in OFDM (2009-10)
- (v) Ms Vaibhavi Lineswala, “Compressed Image/Video transmission through wireless channel (2009-10)

9. STTPs/Conferences Organized:

- (i). AICTE sponsored short term training programme on Microwave Integrated Circuits, **as a Co-coordinator**, at ECED, SVNIT during 16-20 June, 2008.
- (ii). AICTE, DST, CSIR sponsored National Conference on “Advancements in Wireless Technologies and Applications-AWTA08”, **as an Organizing Committee member** at ECED, SVNIT during 18-19 Dec. 2008.
- (iii). AICTE sponsored, National level short term course on “Advance Laboratory Techniques in RF & Microwaves” **as an Organizing Committee member** at ECED, SVNIT during 22-26 Dec. 2008.
- (iv). SMDP-II, MCIT,GOI sponsored National level workshop on “VLSI Design tools” **as an Organizing Committee member at** ECED SVNIT , during 28th Feb to 1st March 2008.

- (v). AICTE sponsored short term training programme on Nanotechnology and Application as an **Organizing Committee member** at ECED, SVNIT during 16-20 June, 2008.
- (vi). AICTE sponsored short term training programme on Teaching with MATLAB & Simulink, as a **Co-coordinator** at ECED, SVNIT during 21-25 Dec.2009.

10. STTPs/Conferences Attended:

a. STTP Attended:

- 1 AICTE sponsored National level short term course on Advance Communication Systems at ECED, SVRCET during 25/12/01 to 29/12/01.(1 week)
- 2 GUJCOST sponsored STTP on Digital Stereography at ECED, SCET, Surat during 28/6/04 to 3/7/04. (1 week)
- 3 ISTE sponsored STTP on Artificial Intelligence: A Modern Approach at ECED, SCET, Surat, during 2/5/05 to 7/5/05. (1 week)
- 4 TEQIP Sponsored workshop on Simulation of Communication Systems at ECED, SVRCET during 20/1/06 to 22/1/06. (3 Day)
- 5 ISTE sponsored STTP on Emerging Trends in wireless Communication Computing at ECED, SCET, Surat during 1/1/07 to 5/1/07.(1 week)
- 6 TEQIP sponsored STTP on VLSI & Embedded Systems at CITD, Hyderabad, during 17/12/07 22/12/07 1 week
- 7 EQUATE organized STTP on Induction Trainig Programme for newly recrtruted Faculty at SVNIT during 21/1/08 23/1/08 1 week
- 8 EQUATE organized STTP on Pedagogy Training at SVNIT during 12/5/08 to 15/5/08.(1 week)
- 9 EQUATE Training on Research Methodology in Engineering at SVNIT, during 16/5/08 to 17/5/08. (1 week)
- 10 MHRD, Finishing school programme on “Faculty Induction programme” SVNIT, Surat during 15/12/08 19/12/08. (1 week)
- 11 AICTE sponsored STTP on “Advanced Engineering Optimization Through Intelligent Techniques” MED, SVNIT, Surat during 22/12/08 26/12/08. (1 week)
- 12 IUCEE Sponsored STTP on Teaching with MATLAB and Simulink, at Infosys, Mysore Training center during 22/6/09 26/6/09. (1 week)

(b) Seminar/Conference Attended:

- 1 Tektronix & Auto.Sys organized one day programme on Engg. Cutting Edge Technology & Test Measurement, at LD college, Ahmedabad 6/10/2000.(1 day)
- 2 TEQIP organized two day training programme on Application of code Composer Studio for TMS 67XX Family, at SVRCET during 21/5/2005 to 22/5/2005. (2 Days)
- 3 Agilent Technology sponsored one day workshop on Agilent Measurement Technology, at Hotel pride, Ahmedabad during 12/11/2008. (1 Day)
- 4 IE & IETE Regional seminar on Wireless Communication and Networking Technologies at Vaswik Bhavan, Vadodara during 21/12/2008. (1 Day)
- 5 IE & IETE Regional seminar on Wireless Communication and Networking Technologies ,Security Bhavika Bhavan , Ahemadabad, 21/2/2010.(1 Day)

11. Administrative Responsibilities:

a. Current

- 1 Time Table Committee member
- 2 Communication Lab Co-In charge
- 3 Subject Coordinator: Digital Circuits, Signal & Systems
M. Tech level:- Wireless Communication, Mobile Network
- 4 Guided B Tech level projects, M Tech Level Dissertation
- 5 Registration Committee Member(B Tech IV Year)
- 6 As a Continuous Evaluation Observer for Lab session
- 7 Annual Report committee of Electronics Department member

Institute Level activities

- 1 ECED representative member for purchasing MATLAB at institute level
- 2 Work as Co-opted member in Institute level scrutiny committee for direct recruitment of Non teaching position

b. Past

- 1 Electronics System Design Lab CO-In charge
- 2 Seminar exam Co-Coordinator for B Tech IV(2007-2009)

13. Extra-Curricular Activities:

- External Practical Examiner

- As a Jury member of National Level Paper contest

14. Any other Information:

(i) Life time Membership of IETE- Membership No. 64703

(ii) Award / Prize Received:

- Merit Medals to the outstanding Engg. Graduates, selected for Late Daliba Jalejar Bhagat Merit Medal in Electronics Engg, The Institutions of Engineers (India), South Gujarat Local centre-1999
- Gold Medal, for securing highest CGPA in M.Tech. (Electronics Engg. with specialization in Commu. systems) for all the semesters. SVNIT , Surat-2007
- Best Paper Award: Wireless Lan: Security threats, Issues and Best Practices International Conference on Systematic Cybernetics and Informatics, ICSCI 2009 Organized by Pentagram Research center Pvt, ltd. Dr MCR HRD Institute Jubilee hills, Hyderabad.

15. Books/Monographs/Article Contributions:

(i) Review one book of TMH publication , Wireless and Mobile Network security, Year- 2009