

1. Date of joining: 01/01/1998

**2. Highest Qualification: M.Tech. (IIT, Bombay)
Pursuing Ph.D.**

3. Designation: Assistant Professor & PG Incharge ECED



4. Research Publications:

(a) International Journals

2009

1. N. B. Kanirkar, J N Sarvaiya, "Performance Evaluation of Direct Sequence Spread Spectrum CDMA Transceiver Hardware Using Pseudo Code and Code Modulation Technique," International Journal of Engineering Research & Industrial Application (IJERIA) Vol. 1, No.2, pp.1-13, March 2009.
2. N. B. Kanirkar, J N Sarvaiya, "BER Vs SNR Performance Comparison of DSSS FPGA Based Hardware with AWGN, Spreading Codes & Code Modulation Techniques," International Journal of Electronics Engineering Research, Vol. 1, No.2, pp.155-168, August 2009.

2008

3. N. B. Kanirkar, J N Sarvaiya, "Performance Evaluation of Direct Sequence Spread Spectrum of CDMA Technology with AWGN Channel using Matlab/Simulink," International Journal of Engineering and Technology, Vol. 1, No.2, pp 11-20, December 2008.

(b) National Journals

2009

4. Mr. J N Sarvaiya, Prof. P C Pandey, Mr. Vinod Pandey, "An Impedance Detector for Glottography," **IETE Journal of Research**, Vol.55 No. 3, pp.100-105, May-June 2009.

2008

5. Mr. Vinod Pandey, Prof. P C Pandey, Mr. J N Sarvaiya, "Impedance Simulator For Testing of Instruments for Bio impedance Sensing," **IETE Journal of Research**, Vol.54 No. 3, pp.100-105, May-June 2008.

(c) International Conferences

2009

6. Nita Chapatwala, J N Sarvaiya, "Real Time Implementation of LPC-10 Coder Using TMS320C6713," International Conference on Communication, Computers and Instrumentation at Vivekanand Education Society's Institute of Technology, Chembur, Mumbai (ICCCI09 Proceeding), pp.147-151, January 02-03, 2009.
7. Nitam Desai, J N Sarvaiya, "Design of RF Front End Tranceiver for Low Data Rate Communication," International Conference on Communication, Computers and Instrumentation at Vivekanand Education Society's Institute of Technology, Chembur, Mumbai, (ICCCI09 Proceeding), pp.152-155, January 02-03, 2009.
8. Mr. J N Sarvaiya, Dr. S Patnaik, "Automated Hybrid Temporal Image Registration Using Radon Transform," The Eleventh IASTED International Conference on Signal and Image Processing, Honolulu, Hawaii, USA, pp.90-94, August 17-19, 2009.
9. Mr. J N Sarvaiya, Dr. S Patnaik, S. Bombaywala, "Temporal Image Registration using GCPs and Bivariate Polynomial Estimation," The Eleventh IASTED International Conference on Signal and Image Processing, Honolulu, Hawaii, USA, pp.95-100, August 17-19, 2009.
10. Mr. J N Sarvaiya, Dr. S Patnaik, S. Bombaywala, "Image Registration Using Log-Polar Transform And Phase Correlation," International Technical Conference of IEEE Region 10, TENCON2009, IEEE Singapore Section, Singapore, November 23-26, 2009.
11. Mr. J N Sarvaiya, Dr. S Patnaik, S. Bombaywala, "Image Registration By Template Matching Using Normalized Cross-Correlation," International Conference on Advances in Computing, Control, and Telecommunication Technologies (ACT2009), Association of Computer, Electronics and Electrical Engineers (ACEEE), Trivandrum, Kerala, pp.819-822, December 28-29, 2009.

(d) National Conferences

2008

12. J. N. Patel, J N Sarvaiya, "Convolution Coded OFDM - Performance Analysis Includes Interleaver for Different Code Rate," National Conference on Advanced Communication Techniques-2008 (NCACT'08), A. C. College of Engineering & Tech., Karaikudi, 2008.

13. Nita Chatpatwala, J N Sarvaiya, "Code Excited Linear Predictive Coder (CELP) at 8.5 kbps and 7.2 kbps," National Conference on Advanced Communication Techniques (NCCT'08), A.C.College of Engineering & Tech., Karaikudi, 2008.
14. Praneeth.B, J N Sarvaiya, "A 0.25 μ m CMOS LNA Design for 2.4GHz Application," Second National Conference on Communication Technologies (NCCT'08), Mepco Schlenk Engineering College, Sivakasi, pp. 295-298, March 14-15, 2008.
15. Vishaka Gor, J N Sarvaiya, "Psychoacoustic Model for MPEG Advanced Audio Coding (AAC)," National Conference on Current Trends In Technology (NUCON 2008), Nirma Institute of Technology, Electronics Engg. Dept., Ahmedabad, pp.338-342, November 27-29, 2008.
16. Vishaka Gor, J N Sarvaiya, "Computationally Efficient Psychoacoustic Model for MPEG Advanced Audio Coding (AAC)," National Conference on Advancements in Wireless Technologies & Applications (AWTA-08), Electronics Engg. Dept., SVNIT, Surat, pp.105-110, December 18-19, 2008.
17. Nita Chatpatwala, J N Sarvaiya, "Linear Predictive Coder at Various Bit Rates," National Conference on Advancements in Wireless Technologies & Applications (AWTA-08), Electronics Engg. Dept., SVNIT, Surat, pp.62-67, December 18-19, 2008.

**5. M Tech Dissertation Supervision: 07
2008-09**

1. Performance Analysis of DS-SS CDMA Transceiver Using Matlab/Simulink Software & FPGA Based Hardware With AWGN, Spreading Codes & Code Modulation Techniques: Mr. N B Kanirkar (M.Tech(R))
2. Image Registration Using Various Techniques: Bombaywala Md.Salman.
3. Implementation of MPEG Advanced Audio Coding (AAC) Encoder: Vishaka Gor
4. Design of RF Front End Transceiver for Low Data Rate Communication: Nitam C Desai

2007-08

5. Design of RF Transceiver Front End for Low Data Rate Communication: B. Praneeth
6. Performance Evolution of LPC and CELP Coder at Different Bit Rates: Neeta Chatpatwala

2006-07

7. Registration of Satellite Image Data for Meteorological Applications: Jignesh Bhatt

6. STTPs/Conferences Organized:

- (I). National level two days workshop on “**VLSI System Design**”, as a **Coordinator** at ECED, SVNIT Under SMDP-II during 20/02/2009 to 01/03/2009.
- (II). AICTE sponsored short term training programme on “**Microwave Integrated Circuits**,” as an Organizing Committee member at ECED, SVNIT during 16/06/2008 to 20/06/2008.
- (III). AICTE, DST, CSIR sponsored National Conference on “**Advancements in Wireless Technologies and Applications-AWTA08**”, as an Organizing Committee member at ECED, SVNIT during 18/12/2008 to 19/12/2008.
- (IV). AICTE sponsored short term training programme on “**Teaching with MATLAB & Simulink**,” as a **Co-coordinator** at ECED, SVNIT during 21/12/2009 to 25/12/2009.

7. STTPs/Conferences Attended:

Sr. No.	Institute	Title	Duration
1.	SVRCET, Surat	Internet Unleashed	15/03/1999 To 27/03/1999
2.	SVRCET, Surat	Advance Communication Systems	24/12/2001 To 29/12/2001
3.	Automation Ltd. Ahemadabad	Virtual Instrumentation	16/02/2002
4.	NIT, Ahemadabad	Overview of VLSI Design & Technology	18/12/2006 To 23/12/2006
5.	SVNIT, Surat	Information Security	19/03/2007 To 24/03/2007
6.	CITD,Hyd'bad	VLSI & Embedded Systems	17/12/2007 To 22/12/2007
7.	EQUATE, SVNIT New Delhi	Management Capacity Development Program For Future Managers	28/01/2008 To 01/02/2008
8.	SVNIT, Surat	Microwave Integrated Circuits	16/06/2008 To 20/06/2008
9.	Infosys, Mysore Training center, ICUEE	Signals, Systems, and Signal Processing	06/07/2009 To 10/07/2009
10.	Automation Ltd., Ahemadabad	Virtual Instrumentation	16/2/2002
11.	NIT, Durgapur	National Seminar on “Engineering Software Products: Perspective of Research and Applications	19/01/2009 To 21/01/2009
12.	TEQIP SVNIT, Surat	Intellectual Property and Rights	13/03/ 2009

8. Administrative Responsibilities

(a) Current :

- PG Incharge of M.Tech. (Communication System)
- Library Committee Member
- CO-INCHARGE of Computer System Laboratory
- INCHARGE of Electronics System Design Laboratory
- INCHARGE of PG Project Laboratory

(b) Past

- Admission Committee Member in PDDC admission work
- Social and Cultural Activities Committee Member for SPARSH'2000
- Admission Committee Member in B.E.-1st Year
- AIEEE admission work for the year 2004
- Co-Controller for Central Assessment Work of Engineering Examination of SVNIT of B.E.-II ,Nov-Dec 2002
- Appointed as a B.Tech.-I year Coordination committee member in 2007
- Committee Member for procurement of Multimedia Projects & other allied accessories for class rooms of CRC building, 29th June 2007
- Committee Member for the Internet Bandwidth Upgradation,11th June 2007

9. Extra-Curricular Activities:

- Worked as a Presiding officer in Vidhansabha Election during 2002
- Worked as a Presiding officer in Vidhansabha Election during April, 2004
- Jury Member in SVNIT MINDBAND 2007 Paper Presentation
- Jury Member in CKPCET UDBHAV 2007 Paper Presentation
- Jury Member in SCET KHISITIG 2007 Paper Presentation
- Jury Member in SCET KHISITIG 2009 Paper Presentation

10. Any other Information:

- **Member of Technical Societies:**

Sr. No.	Name of Association/Society	Category	Membership No.
1.	IETE	Life Member	M-209753
2.	IJERIA	Life member	LM-2223

- **Review of Books:**

Sr. No.	Name of Book(s)	Publisher
1.	Digital Image Processing, (Blind Review)	McGraw-Hill
2.	Information Theory, Coding and Cryptography by Ranjan Bose	McGraw-Hill

- **Review of Papers:**

Reviewed Papers in National Conference on Advancements in Wireless Technologies & Applications (AWTA-08), Electronics Engg. Dept., SVNIT, Surat, December 18-19, 2008.