

CURRICULAM VITAE

Vikas Soni (M.Tech., Digital Communication, RTU Kota)

(IEEE PCS Member)

Reader and Head

Dept. of Applied Electronics and Instrumentation Engineering

Modi Institute of Technology, Kota

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EXPERIENCES:- 7.3 Years teaching experience

- 1 Presently working as a Reader and Head in the **Department of Applied Electronics and Instrumentation Engineering, Modi Institute of Technology, Kota** since October 10,2011 till now.
- 2 Worked as H.O.D., **Department of Electronics and Communication Engineering & Electrical and Electronics Engineering, Vedant College of Engineering and Technology Bundi** from July 31, 2010 to October 12,2011.
- 3 Served as a Lecturer, **Department of Applied Electronics and Instrumentation, Modi Institute of Technology Kota** from July 29, 2006 to July 31, 2010.
- 4 Served as a lecturer for 6 months in **Jaipur Engineering College Kukas, Jaipur** from Feb 8, 2006 to July 20, 2006 and for 1 year 4 months in **Institute of Engineering and Technology, Alwar** from Aug 2, 2004 to Dec 31, 2005.

EDUCATIONAL QUALIFICATIONS

| Course | University or Board | Year | Division | Percentage % |
|----------------------------|---------------------|------|----------|---------------------|
| Master of Technology | RTU, Kota | 2011 | I | 74% (HONOUR) |
| Bachelor of Engineering | University of Raj. | 2004 | I | 67.0 |
| Senior Secondary Education | Raj. Board Ajmer | 1998 | I | 67.7 |
| Secondary Education | Raj. Board Ajmer | 1996 | I | 76.6 |

BOOKS PUBLISHED

- 1 **“Digital Signal Processing”**, Genius Publication Jaipur, ISBN 978-93-80311-28-9, Published in 2010.
- 2 **“Digital Signal Processing”**, Genius Publication Jaipur, ISBN 978-93-80311-44-9, Published in 2010.
- 3 **“Random Variables and Stochastic Processes”**, Vardhan Publishers and Distributors Jaipur, ISBN 978-93-80205-19-9, Published in 2009.
- 4 **“Electronics Measurement and Instrumentation (EMI)”**, Genius Publication Jaipur, ISBN 978-81-88870-56-1, Published in 2008.
- 5 **“Electrical Measurements”**, Genius Publication Jaipur, ISBN 978-81-88870-55-4, Published in 2009.
- 6 **“Instrumentation”**, Genius Publication Jaipur, ISBN 81-88870-40-4, Published in 2008.

MEMBERSHIP OF PROFESSIONAL BODIES

IEEE Professional Communication Society Membership
Member
Member #91300198
Delhi Section

CONVENERSHIP

Served as Convener of “*National Conference on Emerging Trends in Control, Communication and Computer Science (ET3CS’11)-2011*” held at Vedant College of Engineering and Technology Bundi, on March 26, 2011.

PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES

- 1 **V. Soni, P. Shukla, M. Kumar**, ”Nonrecursive Digital FIR Filter Design by 3-parameter Hyperbolic Cosine Window: A High Quality Low Order Filter Design” *International (IEEE) Conference on Communication and Signal Processing (ICCSP-2011)*, 10-12 February, Department of Electronics and Communication Engineering, *NIT Calicut Kerala*, pp. 331-335. 978-1-4244-9799-7/11/\$26.00 ©2011 IEEE
- 2 **V. Soni, P. Shukla, M. Kumar** “Application of Exponential Window to Design a Digital Nonrecursive FIR Filter”, *The 13th (IEEE) International Conference on Advanced Communication Technology (ICTACT-2011)*, **Phoenix Park Korea (South)**, February 13-16, 2011, pp. 1015-1019, ISBN 978-89-5519-15c, Feb. 13~16, 2011 ICTACT2011

PAPERS PUBLISHED IN NATIONAL CONFERENCES/SEMINARS

- 1 **V. Soni, P. Shukla, M. Kumar** “Hyperbolic Cosine Window: An Application to obtain Better Far-end Stopband Attenuation in FIR Filter Design”, *National (IEEE) Conference on Trends in Signal Processing and Communication (TSPC’11)*, March 10-12, 2011, **Bhagwant Institute of Technology, Muzaffarnagar UP**. pp.39-43
- 2 **V. Soni, P. Shukla, G. Parmar** “A Window Design Based on Exponential Function: Obtaining a Higher Side-Lobe Roll-off Ratio”, *National (IEEE) Conference on Trends in Signal Processing and Communication (TSPC’11)*, March 10-12, 2011, **Bhagwant Institute of Technology, Muzaffarnagar UP**. pp.35-38
- 3 **V. Soni, G. Parmar, V. Kumar**, “WIMAX: Making Ubiquitous High Speed Data Services a Reality” *National Seminar On Radar Remote Sensing And Its Application*, 25-26 September 2009, Department Of Electronics and Computer Engineering, **IIT Roorkee, India**.
- 4 **V. Soni**, “Battery Power Efficiency: A Comparison of PPM And FSK In Wireless Sensor Networks over Path-loss Channels” *National Conference On Virtual And Intelligent Instrumentation (NCVII-09)*, November 13-14, 2009, **Birla Institute Of Technology And Science, Pilani (BITS, Pilani)**.
- 5 **G. Parmar, V. Soni**,” Mapping Errors of Linear Dynamic System Caused By Genetic Optimized reduced Order Model” *Advances In Videos And Cyber learning And Electronics, Educational Television And Electronics And Communication Engineering departments, NITTTR Chandigarh*, March 19-20, 2008.
- 6 **V. Soni, G. Parmar**,” Big Green Steps To Make a Big Difference” *National Seminar On Environmental Pollution And Control Measures (EPCM-2008)*, Department Of Civil

- Engineering, Rajasthan Technical University Kota (RTU Kota), September 12-13,2008. pp. 371-373.
- 7 **V. Soni, S. Tiwari**, "A Skilled Power Point Presentation: Preparation for Enhance Representation" A National Seminar on New Initiatives in Technical Education for Self Development 2010, **Maharshi Arvind International Institute of Technology, Kota, Dec. 16,2011**
 - 8 **V. Soni**, "Student Evaluation: A Technique to Improve Teaching Methodology" A National Seminar on New Initiatives in Technical Education for Self Development 2010, **Maharshi Arvind International Institute of Technology, Kota, Dec. 16,2011**

WORKSHOPS / SEMINARS / CONFERENCES ATTENDED

- 1 **"IEEE MTTs Student Branch Chapter Workshop on Advanced Antenna Design Techniques and Microwave Engineering"**, Organized by Department of Electronics Engineering, Rajasthan Technical University Kota, 8-9 October, 2011.
- 2 **"IEEE MTTs Student Branch Chapter Workshop on Recent Trends in RF Technologies"**, Organized by Department of Electronics Engineering, Rajasthan Technical University Kota, 26-27 February, 2011.
- 3 **"A Workshop on Digital Signal processors, MSP430 and Their Applications"**, organized by Department of Electronics Engineering, Rajasthan Technical University Kota, 28-30 January, 2011
- 4 **"National Workshop on MIC, NMIC and MEMS : Theory and Circuit Design Sponsored by IEEE MIT-S Delhi Chapter"**, Organized by Department Of Electronics and Communication ,Institute Of Engineering and Technology Alwar, October 18-19, 2008
- 5 **"Workshop On DSP and CMOS Layout"** Sponsored by CRANES Software Bangalore and ni Logic Pvt. Ltd., Pune, Organized by Department Of Electronics Engineering, Rajasthan Technical University Kota (RTU Kota), December 19-20, 2008.
- 6 **"All Indian Seminar On NGN Mobile Networks"** Sponsored by The Institution Of Engineers (India) ,Kota Local Centre, May 17-18, 2007.
- 7 **"Entrepreneurship Awareness Camp (EAC)"** Sponsored by The Department Of Science And Technology, Govt. of India, Organized by I.E.T. Alwar, October 21-23, 2005.

STAFF DEVELOPMENT PROGRAMME (SDP) ATTENDED

- 1 **"Inductive Teaching and Learning Methodologies For Technical Teachers (ITLM-2007) Sponsored by AICTE"** , Organized by Department of Civil Engineering, Rajasthan Technical University Kota (RTU Kota), June 18-30, 2007.

SUBJECTS OF INTERESTS / TAUGHT

| S.No. | Name of Course | Subjects |
|--------------|-----------------------|---|
| 1 | Post Graduate | Taken Guest Lectures of Digital Communication System (1MDC2) and Antenna Theory and Techniques (2MDC4.3) (Subjects of Regular M.Tech. in Digital Communication) Geetanjali Institute of Technical Studies, Udaipur (Rajasthan). |
| 2 | Under Graduate | Digital Signal Processing (DSP), Random Variables and Stochastic Processes (RVSP), Control System Engineering (CSE), Digital Communication (DC), Optical Communication |

(OC), Wireless Communication (WC), Signals and Systems (SS), Neural Networks (NN) , Information Theory and Coding (ITC), Electronics Measurement and Instrumentation (EMI), Electrical Measurements, Instrumentation, Biomedical Engineering etc...,

M.TECH DISSERTATION THESIS

Nonrecursive Digital FIR Filter Design by New Class of Windows: A High Quality Low Order Filter Design

B.E. PROJECTS

- 1 Minor Project: "PC Based Proportional Controller"
- 2 Major Project: "PC Based Temperature Scanner Cum Controller".

SEMINARS DURING M.TECH / B.E.

- 1 M.Tech Seminar: "Battery Power Efficiency: A Comparative Study of PPM And FSK in Wireless Sensor Networks"
- 2 B.E. Seminar: "Control Theoretic Dynamic Voltage and Frequency Scalling For Multimedia Workload".

COMPUTER PROFICIENCY

1. Operating System : Window XP
2. Software : MATLAB

TRAINING UNDERTAKEN DURING B.E.

| S/No | Name Of Organization | Training Periods | Training Area |
|------|--|------------------|--|
| 1. | DSCL Kota (DCM Shriram Consolidated Ltd. Kota) | 40 days | Instrumentation Dept. of Vinyl Plant (Caustic soda , PVC, PAC) |
| 2. | Shriram Rayons Kota | 30 days | Process of Rayon Yarn, Instrumentation Dept. |

INTEREST/ EXTRA CURRICULAR ACTIVITIES

1. Participation in Singing as a filler in ANUKRITI-2004 (Annual Function Of Engineering College Kota).
2. Acting as a Judge for Singing Competition in cultural week at MIT Kota.

PERSONAL DETAILS

Name : Vikas Soni
M.Tech : Digital Communication System (Part Time)
B.E. : Electronics Instrumentation and Control Engineering
Father's Name : Late Shri Swatantra Kumar Soni.
Permanent Address : H/No 4, Namrata Awas Colony

Bajarang Nagar Kota-324001 (Rajasthan)
Mobile No. : +91-9413843227 (Self)
E-Mail Address : vikassonieck@yahoo.co.in, vikassonieck@gmail.com
Date of Birth : 10th October, 1979.
Marital Status : Married
Nationality : Indian
Gender : Male



(VIKAS SONI)