**Dr. Rohini Deshpande**

**Curriculum Vitae of Dr. Rohini Deshpande **

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| **Dr. Rohini Deshpande received her Ph. D degree in Electronics and Communication Engg., from Guru Govind Singh Indraprasth University (GGSIPU) New Delhi, M. E degree in Electronics and Communication Engg., from the University of Delhi, with honors and Bacholers degree in Electronics and Communication Engg., from Gulbarga Univeristy. She is in academics for the last 32 years and involved in research and teaching UG and PG students. Her major areas of research are Signal Processing, Optical Networks, Mobile Computation etc. She also has administrative experience of around 10 years. She has delivered the responsibilities of head of ECE, IT and CSE departments. She has research experience of 10 years and is guiding five scholars for their doctoral degrees.** |

**CONTACT INFORMATION**

**Present Address:       462, Jalvayu Towers**

**Sadanand Nagar**

**Bengaluru -560038**

**Phone:                          Mobile: +91-9663373661   Fax:  (+91)-80-28478539**

**E-mail:** [**drrohini.deshpande@gmail.com**](mailto:drrohini.deshpande@gmail.com)

**Date of Birth:               12th May 1960**

**EDUCATION**

**Guru Govind Singh Indra Prastha (GGSIP) University, New Delhi**

**Ph.D in Electronics and Communication Engineering in 2012.**

**Guide: Late Prof. B. Kumar, Professor, Ex-Director, Dean of NSIT Delhi**

**Retd. Prof. Shail Bala Jain, Professor and HOD, ECE Dept., IGIT Delhi**

**Thesis: Design Techniques of FIR Notch Filters**

**Delhi College of Engineering, Delhi University, Delhi, India**

**M. E in Electronics and Communication Engineering (75.6%) in 2000.**

**Guide: Late Prof. B. Kumar, Professor, Ex-Director, Dean of NSIT Delhi**

**Retd. Prof. Shail Bala Jain, Professor and HOD, ECE Dept., IGIT Delhi**

**Thesis: Maximally Flat Linear Phase FIR Notch Filter**

**Gulbarga University, Karnataka, India**

**Bachelor of Engineering in Electronics and Communication Engg., with 68.6% in 1983.**

**TEACHING EXPERIENCE**

**Teaching and Research guidance to under graduate and graduate students (32 Years).**

**Subjects Handled: Digital Communication, Signal Processing, Wireless Networks, Mobile Communication, Optical Networks and Optical Fiber Communication etc.. For both PG and UG students**

**JOB SERVICES**

**Lecturer from Sept.1983 to July 1986 in Electronics and Communication Engg. Dept. with GIT Belgaum, Karnataka, India.**

**Lecturer from Aug.1986 to Dec. 1988 in Electronics and Communication Engg. Dept. with PDA college of Engineering, Gulbarga, Karnataka, India.**

**Lecturer from June.1991 to May. 1994 in Electronics and Communication Engg. Dept.,with K.J. Somaiyya,Ccollege of Engineering, Mumbai, Maharashtra, India.**

**Lecturer from June.1995 to May. 1996 in Electronics and Communication Engg. Dept.,with Delhi College of Engineering, Delhi, India.**

**Lecturer from May.1995 to Aug. 1996 in Electronics and Communication Engg. Dept.,with NSIT New Delhi, India.**

**Lecturer from Sept.1996 to Aug. 1999 in Electronics and Communication Engg. Dept.,with Father Agnel Polytechnique, New Delhi, India.**

**Assistant Professor from Oct.2000 to May. 2002 in Electronics and Communication Engg. Dept.,with GIT, Visakhapattanam, India.**

**Reader and HOD, from Nov.2003 to Nov. 2008 in Information and Technology Dept., MSIT New Delhi, India.**

**Professor, from Jan 2009 to Aug. 2011 in Electronics and Communication Engineering Dept., RITM, Bengaluru, India**

**Professor and Head from Aug. 2011 to Aug. 2013 in Computer Science Engineering Dept., RITM, Bengaluru, India**

**Professor and Head from Aug. 2013 to July 2015 in Electronics and Communication Engineering Dept., East Point College of Engineering and Technology, Bengaluru, India**

**Professor in Electronics and Communication Engineering Dept., M S Ramaiah University of Applied sciences (MSRUAS) Bengaluru, India from July 2015 to Feb. 2018**

**She was Chairperson BOS for CSE for Reva University.**

**She has organized many technical festivals as chief coordinator**

**She has discharged the duties of Controller of examinations**

**She has conducted many National level Seminars.**

**RESEARCH FOCUS**

1. **Various innovative design technologies of Digital Notch filters**
2. **Notch filter application in Naval Communication**
3. **Optical devices and Networks and their applications**
4. **EMI interference energy harvesting in RADAR systems.**

**Publications**

**Prof. Rohini Deshpande: Total = 34**

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**Journals**

**International**

1. **R. Deshpande, B. Kumar, S. B. Jain, “Design of maximally flat, linear phase FIR notch filter with controlled nullwidth”, *Signal Processing, EURASIP of Elsevier*, Vol. 88, Issue 10, pp. 2584-2592, October 2008. DOI :10.1016 / sigpro. 2008.04.015.**

***Impact factor (IF) = 1.256***

***Citation Index(CI) =11***

1. **R. Deshpande, B. Kumar, S. B. Jain, “Narrow Rejection Bandwidth Comb Filters”, International Journal of Scientific Computing, Vol. 3, No. 1, pp. 1-4, Jan - June 2009.**
2. **R. Deshpande, B. Kumar, S. B. Jain, “Highly narrow rejection bandwidth FIR notch filters for communication”, *IET Communication,* Vol. 4, Issue 18, pp. 2208-2216, December 2010. *DOI :10.1049 / iet-com. 2009.0599***

***Impact factor (IF) = 0.753***

***Citation Index(CI) =7***

1. **R. Deshpande, B. Kumar, S. B. Jain, “On the design of multi notch filters” *InternationalJournal of Circuit Theory and Applications, Wiely Intersciences,* Vol. 40, Issue 4, pp.313-327, 10th April 2012.DOI : 10.1002 / cta.725**

***Impact factor (IF) = 2.389***

***Citation Index(CI) = 15***

1. **R. Deshpande, B. Kumar, S. B. Jain, “Design simplifications for bi notch filters”, *International Journal of Analog Integrated Circuits and Signal Processing, Springer,* Vol. 67, No. 2, pp. 189-200, May 2011.**

**DOI : 10.1007 / s10470-010-9533-1**

***Impact factor (IF) = 0.591***

***Citation Index(CI) = 1***

1. **Naveen Kumar, Rohini Deshpande, S. S. Manvi, “Advanced Communication System for Quadriplegics using PC and Accelerometer”, *International Journal of Emerging Trends in Engineering and Development (IJEE)*, Issue 1, Vol 3, pp. 309-315, Nov.2011.**

***Impact factor (IF) = 0.1***

1. **Himabindu N and Rohini Deshpande,“Design and Implementation of asynchronous FIR Filter” *International Journal of Electronics Signals and Systems (IJESS) ,ISSN: 2231-* 5969, Vol-1, Iss-4, 2012.**

***Impact factor (IF) = 0.1***

***Citation Index(CI) = 1***

1. **Nagalalitha, Dr. Rohini Deshpande, Desanna “ Simulation and Implimentation of Low Latency TDMA Network by using SC-PDMA Technique for Wireless Radio Networks”International Journal of Latest Trends in Engineering, Science and Technology (IJLTEST), Volume 1, Issue 6, 2014.**
2. **Akshay P, Dr.Rohini Deshpande, Mr. Mirza Raheber Raza “Design and implementation of power efficient turbo decoder”, International Journal of Computer Science and Mobile Computing (IJCSMC), Vol. 3, Issue 8, August 2014, Pg. 607-612**
3. **Farah, Dr. Rohini Deshpande “Cloud network based smart home system using Rasberry PI”, International Journal for Technological Research in Engineering (IJTRE), Vol.2, Issue 9, May 2015.**
4. **Archana B R, Dr. Rohini Deshpande “A review paper on modelling of multiplier and adder architecture for low power digital FIR filter” International Journal for Technological Research in Engineering (IJTRE), Vol.2, Issue 9, May 2015.**
5. **Archana B R, Dr. Rohini Deshpande “Modelling of multiplier and adder architecture for an efficient fir filter design” International Journal for Technological Research in Engineering (IJTRE), Vol.2, Issue 10, June 2015.**
6. **Shruti Kodiya, Dr.Rohini Deshpande “Design of efficient sum of absolute difference architecture for H.264/AVC video coding” International Journal for Technological Research in Engineering (IJTRE), Vol.2, Issue 10, June 2015.**
7. **Rohini Deshpande, Deepak Deshpande “FIR notch filter with rejection bandwidth tuning and sharpening” Book series of Frontiers in Artificial Intelligence and Applications (FAIA), Vol. 299, pp.364 – 3371. December 2017**

**DOI:10.3233/978-1-61499-828-0-364.**

**National:**

1. **Vinay B. E, Dr. Rohini Deshpande and Pallaviram Sure “Design of rectena for energy harvesting from ambient GSM and WLAN frequency bands” RUAS-SASTech Journal. Vol.15, Issue 2, September 2016.**

**Conferences**

**International**

1. **R. Deshpande, B. Kumar and S. B. Jain, “Narrow Rejection Bandwidth Comb Filters”, Proceedings of *International Conference on Electronics, Communications and Computer Engineering (ICECCE 2009) of WASET* Hong Kong, pp. 114-122, March 23-25, 2009.**

**2. R. Deshpande, B. Kumar and S. B. Jain, “Narrow Rejection Bandwidth Comb Filters”, Proceedings of *International Conference on VLSI and Communications (ICVCom 2009),* pp.349 -352, Kottayam, India, April 16-18, 2009.**

**3. R. Deshpande, B. Kumar and S. B. Jain, “Sharpening the response of FIR notch filters for highly narrow rejection bandwidth”, Proceedings of *International Conference on Signal and Image Processing (ICSIP2009)*, pp.269-273, Mysore, India, August 12-14, 2009,**

**4. R. Deshpande, B. Kumar and S. B. Jain, “ Special FIR and IIR bi notch filters”, Proceedings of *International Conference on Advances in Recent Technologies in Communications and Computing (ARTCOM 2009)(IEEE sponsored)*, pp.657-660, Kottayam, India, October 27-28, 2009. DOI : 10.1109 / ARTCom. 2009.49**

***Citation Index(CI) = 2***

**5. R. Deshpande, B. Kumar and S. B. Jain, “FIR bi notch filters as harmonics eliminators”, Proceedings of *International Conference and Workshop on Emerging Trends in Technologies (ICWET10)(ACM sponsored)*, pp. 1014-1014, Mumbai, India, Feb. 27-28, 2010. DOI: doi.acm.org/10.1145/1741906.1742205.**

**6. R. Deshpande, “FIR bi notch harmonics eliminators”, Proceedings of *International Conference on Communication, Management and Nanotechnology(ICN-2011)*, Bidar, India, Sept. 23-24, 2011.**

**7. Rashmi, Rohini Deshpande, “Design and Implementation of FIR filter using System generator”, Proceedings of International Conference CSIT2012, pp. 290-295, Pune India, April 15, 2012.**

**8. Himabindu.N, Rohini Deshpande, “Design and Implementation of Asynchronous FIR filter”, Proceedings of International Conference ICEEE, Tirupathi, India, June 09, 2012.**

**9. Rohini Deshpande, “Rejection bandwidth tuned FIR notch filter”, Proceedings of**

**International Conference ICCTEM, Mysore, India, July 12-14, 2012.**

**10. Dayanand M. S, Rohini Deshpande”BlueApp Broadcasting Application for Bluetooth Enabled Devices” Proceedings of International Conference on Advances in Information and Communication Security (AICS), Interscience Research Network, Bengaluru, 07th July 2013**

**11. K.P Singh, Rohini Deshpande,”Energy Harvesting from Electromagnetic interference and Jamming Signals in Radar System – Survey” International Conference on Emerging Trends in Engineering and Technology, Bengaluru, India, July 4th – 5th 2015**

**12. Kunwar Pal Singh, Dr.Rohini Deshpande Raveesh Ranjan “ Design of Wideband Balun for Archimidian Spiral Antenna in Energy Harvesting”, Proceedings of International Conference on Applied and Theoretical Computing and Communication Technology iCATccT2015, Davanagere, India, 29th – 31st October, 2015.**

**13.** **Kunwar Pal Singh, Dr.Rohini Deshpande “Ultra Wide Band (0.5-18.5Ghz) Spiral Antenna for EM Energy Harvesting”, Proceedings of International Radar Symposium India 2015(IRSI-15), Bengaluru, India, 15– 19th December, 2015.**

**14. Rohini Deshpande, Deepak Deshpande “FIR notch filter with rejection bandwidth tuning and sharpening” Proceedings of international conference CECNET2017 Nov 24 - 27th 2017, pp.364 – 3371.**

**National**

1. **Rashmi, Rohini Deshpande, “Design and Implimentation of Hamming Encoder and Decoder using Verilog”, Proceedings of N*ational Level Technical Student Paper Presentation SJBIT*, Bangalore, India, Oct. 14, 2011.**
2. **Dayanand M. S, Rohini Deshpande “Central hub of information for Bluetooth enabled devices using Bluetooth broad casting” presented at National Conference on Communications and Computations (NCCC2012), K S Institute of technology, Bangalore, India, 29-30th Sept. 2012(Best paper of the session and Best paper of the conference)**
3. **Bhavya.H.V, Laksmi. B. N, Rohini Deshpande “An effective Image Processing Tool for Identification of size, Ripeness and disease of Agricultural Produce” Presented at National level Conference Rccit’13, M. S Engineering college, Bangalore 29th April 2013. (paper ID: rccit 13-13p56, 29th April 2013**
4. **Nagalalitha, Dr. Rohini Deshpande, Desanna “ Simulation and Implementation of Low Latency TDMA Network by using SC-PDMA Technique for Wireless Radio Networks” Presented at National level conference New Horizon College of Engineering, Bangalore 23rd May 2014.**
5. **Akshay P, Dr.Rohini Deshpande, Mr. Mirza Raheber Raza “Design and implementation of power efficient turbo decoder”, National Conference on Electrical and Electronics engineering IEEE-HKBKCE student chapter, NCEEE 2014, 5th June @ HKBK College of Engineering, Bangalore.**

**Cumulative Impact factor = 5**

**Cumulative Citation Index= 37**

**PROFESSIONAL ACHIEVEMENTS IN R & D**

* **Reviewer**

**Prof. Rohini Deshpande is a reviewer for the following journals**

1. **International Journal of Signal Processing, Elsevier.**
2. **International Journal of IET Signal Processing.**
3. **IEEE proceedings of Circuit theory and Systems CS II**

**4. Reviewed papers for IEEE Vardhana Conference**

**5. Reviewed papers for IEEE sponsored International conference ICAECC2014 held at Reva ITM on 10Th and 11th October 2014.**

* **Review committee member**

**Prof. Rohini Deshpande was a review committee member for IET sponsored International Conference Advances in Recent Technologies in Communications and Computing (ARTCOM 2011) held on 14-15th September 2011 at RITM, Bengaluru, India. Also, reviewed papers for IEEE sponsored National Conference VERDHANA held on 26th October 2013. Reviewed papers for International conference ICAECC2014 held at Reva ITM on 10Th and 11th October 2014. She is reviewing SASTech journal of MSRUAS**

* **Session Chair**

**Chaired session for International conference ICAECC2014 held at Reva ITM on 10Th and 11th October 2014.**

**Prof. Rohini Deshpande chaired two sessions for IET sponsored International Conference Advances in Recent Technologies in Communications and Computing (ARTCOM 2011) held on 14-15th September 2011 at RITM, Bengaluru, India.**

**Prof. Rohini Deshpande chaired two sessions for IEEE sponsored International Conference Advances in Recent Technologies in Communications and Computing (ARTCOM 2009) held on 27-28th October 2009 at Kottayam, India.**

* **Committee Member**

**Prof. Rohini Deshpande was a Chair, Program Committee for Advances in Recent Technologies in Communications and Computing (ARTCOM 2011) held on 14-15 September 2011 at REVA ITM, Bengaluru, India. Program committee member for International conference ICAECC2014 held at Reva ITM on 10Th and 11th October 2014. She is the member of Technical programme committee SNSP2018 being held at Xi’s University of Science and Technology China.**

* **As a resource person conducted many workshops and given many guest lectures.**
* **Research Guidance**

**Guiding five student under VTU for Ph. D**

**AWARDS, HONORS AND RECOGNITIONS**

* **Distinction with Honors at Under Graduate and Graduate programs.**
* **IEEE Senior Member**
* **Foundation for Accelerated Community Empowerment (FACE), Delhi has conferred the award VIDYA VIBHUSHAN based on the self profile on 19th April 2015**
* **Based on the reference value of her outstanding achievements in the field of notch filter design, Marquis Who’s Who has selected Dr. Rohini Deshpande’s biographical profile for inclusion in the new 30th pearl anniversary edition of Who’s Who in the world.**
* **Best paper of the session and best paper of the conference award**

**Paper Title: *Central hub of information for Bluetooth enabled devices using Bluetooth Broadcasting.***

**Conference: *National Conference on Communications and Computations (NCCC2012), K S Institute of technology, Bangalore, India,***

**Date: *29-30th Sept. 2012***

* **Chief Coordinator, for the National workshop on Signal and Image processing sponsored by DRDO, (Govt. of India), New Delhi and BEL, Bengaluru. Sponsored amount is Rs. 60000/-. Conducted on 28-30th July 2011.**
* **Coordinator, DIT- CSI sponsored workshop on Electronic System Design and Manufacturing. Sponsored amount Rs. 24000/-. Conducted on 03 May 2013 at RITM**
* **Coordinator, DIT- CSI sponsored workshop on Electronic System Design and Manufacturing. Sponsored amount Rs. 24000/-. Conducted on 03 October 2013 at EPCET.**
* **Program chair for 27th Karnataka CSI student convention. Organized on 19th and 20th April 2013. Arranged Rs. One lack sponsorship for the same.**
* **Chaired two sessions for ARTCOM 2011 held at RITM Bengaluru.**
* **Program Chair ARTCOM 2011 held at RITM Bengaluru**
* **Chaired two sessions for ARTCOM 2009 held at Kottayam.**
* **Chaired one session for International conference ICAECC2014 held at Reva ITM on 10Th and 11th October 2014.**

**International Assignments**

* **Invited speaker for 7th international conference CECNET17 at National Dong Hua University Taiwan held on 24-27th November 2017.**
* **She is the member of Technical programme committee SNSP2018 being held at Xi’s University of Science and Technology China.**
* **Invited as speaker for 8 th international conference CECNET18 being held on 16-19th November 2018 at Bangkok, Thailand.**

**ASSOCIATION WITH PROFESSIONAL BODIES**

* **Senior member of IEEE - 90806488**
* **Life member of Computer Society of India CSI (LMCSI) - I1501700**
* **Life member of Indian Society for Technical Education (LMISTE) - 16719**
* **Life member of Institute of Electronics and Telecommunication Engineers (LMIETE). – M150440**

**ACADEMIC AND TECHNICAL ACTIVITIES CONVENED**

**List of Workshops conducted 2011 to 2014**

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| --- | --- | --- | --- |
| **SL.**  **No** | **Workshops** | **Funding Agency** | **Date** |
| **1** | **Two day national workshop on LaTeX the Quality Type Setting** | **FELCOM, EPCET** | **12–13th January 2015** |
| **2** | **One Day workshop on Electronic System Design and Manufacturing** | **ISRO and EPCET** | **31st October 2014** |
| **3** | **Two day workshop on Optical Fiber Communication** | **TPO Technology and EPCET** | **28-29th October 2014** |
| **4** | **One Day workshop on “ Rasberry Pi”** | **EPCET** | **8th April 2014** |
| **5** | **One Day workshop on “ How to crack technical interview on c++ and Java”.** | **EPCET** | **28th March 2014** |
| **6** | **One Day workshop on “ Intellectual Property Rights”.** | **EPCET** | **7th Feb. 2014** |
| **7** | **Zonal Level Workshop on “ MATBOTRIX ROBO GALAXY”** | **IISC**  **0.11lack sponsored** | **10-11th October 2013** |
| **8** | **One Day workshop on “Electronic System Design and Manufacturing” (ESDM)** | **DIT New Delhi**  **Grant of Rs.24,000** | **3rd October 2013.** |
| **9** | **Seminar on GATE preparation** | **TIMES** | **13th Sept 2013** |
| **10** | **One Day workshop on “Electronic System Design and Manufacturing” (ESDM)** | **DIT New Delhi**  **Grant of Rs.24,000** | **3rd  May  2013.** |
| **11** | **Three day workshop on Next Generation Mobile Application Development (Diploma Certification program) “Mobinikka”** | **In collaboration with Nokia Finland** | **21-23 Feb.2013** |
| **12** | **“ Two Days Workshop on “Android Application”** | **RITM** | **13th&14th Dec.2012.** |
| **13** | **Workshop on Java and J2EE** | **RITM** | **10/11/2012** |
| **14** | **Workshop on Virtualization and cloud computing** | **RITM** | **13/10/2012** |
| **15** | **One day workshop software testing** | **RITM** | **29/09/2012** |
| **16** | **One-Day workshop on “LTE-Technology”** | **RITM** | **24/09/2012** |
| **17** | **Two days Workshop on Android-The Future of mobile computing** | **RITM** | **25,26/08/2012** |
| **18** | **Two days workshop on Information Retrieval Cloud Computing** | **RITM** | **24,25/8/2012** |
| **19** | **Workshop on computer Graphics using Open GL** | **RITM** | **10/3/2012** |
| **20** | **80x86 Interfacing and Product Development Using RV-All-In-One Interface Card 2011** | **RITM** | **25/2/2012** |
| **21** | **The Workshop on Android-The mobile technology** | **RITM** | **11TH Feb, 2012** |
| **22** | **Medical Data Mining and Image Processing** | **RITM** | **27,28-jan 12** |
| **23** | **Microprocessor and interfacing** | **RITM** | **2012** |
| **24** | **Research Methodologies** | **RITM** | **2012** |
| **25** | **Advanced Digital Image Processing** | **RITM** | **14th dec-2011** |
| **26** | **Advances in High Performance Computing** | **RITM** | **23/11/2011** |
| **27** | **C and C++** | **RITM** | **29th Oct 2011** |
| **28** | **workshop on “TTCN3 A Software protocol testing”** | **Grant of Rs.20,000 from VTU.** | **August 2011** |
| **29** | **National workshop onSignal and Image Processing** | **DRDO, Delhi**  **BEL, Bangalore**  **Grant of Rs.50,000** | **28th -30th July 2011** |
| **30** | **A Three days workshop was conducted on “Advanced Computer Networks and Simulators”** | **Sponsored by VTU-VGST of RS 1.60lacs** | **27th-29th Jan 2011.** |
| **31** | **TTCN3 A Software protocol Testing** | **Self** | **2011** |
| **32** | **Parallel Computing and Computational chemistry** | **Self** | **2011** |
| **33** | **Signal and Image Processing** | **Self** | **2011** |
| **34** | **Advanced Computer Networks and Simulators 2011** | **Self** | **2011** |

**Dr. Rohini Deshpande**

**Place:Bengaluru Date: 8 / 06 / 2018**