

CURRICULAM VITAE

Dr. HARDEEP SINGH SAINI

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CAREER OBJECTIVE

TO CONTRIBUTE MY ZEAL OF WORKING IN THE GROWTH OF ORGANIZATION

EXPERIENCE:

Teaching Experience: - Total: 14 Years

Indo Global College of Engineering, Abhipur (Mohali)

Presently working as Professor in Electronics & Communication Engineering department from 18.02.2013 at Indo Global College of Engineering, Abhipur (Mohali) and **Associate Dean Academic in the same college.**

Indo Global College of Engineering, Abhipur (Mohali)

Worked as an Associate Prof. in Electronics & Communication Engineering department from 10.01.2011 to 17.02.2013 at Indo Global College of Engineering, Abhipur (Mohali) and **Associate Dean Academic in the same college.**

Indo Global College of Engineering, Abhipur (Mohali)

Worked as an Asstt. Prof. in Electronics & Communication Engineering department from 21.06.2007 to 09.01.2011 at Indo Global College of Engineering, Abhipur (Mohali) and **Associate Dean Academic in the same college.**

Doaba Polytechnic College Raipur

- Head of ECE Department since January 2006 to June-2007
 - Administration and teaching of subject related to Electronics & communication Engineering.

- Lecturer in ECE Department since 2 June 2003 to January 2006
 - All subject related to Electronics & communication Engineering.
- Jr. Lecturer in ECE Department since 25 Oct. 2000 to 1st June 2003.
 - To teach theoretical concepts of Microprocessors, Digital Electronics
 - To teach the performance of practical in Digital Electronic Microprocessor (8085, 8086) & Microwave Labs and other labs
- Laboratory Technician in ECE Department since 15 Feb 1999 to 24 Oct. 2000.
 - To teach performance of practical in Electronics Devices & Circuit, Digital Electronics, Communication lab, Microwave labs and other Electronics Labs.

Industry Experience: - Total: - 01 Years (approx.)

PCP International LTD. (Site Office Thermal Plant, Ropar)

- Jr. Engineer during period 01-5-1998 to 31-10-1998.
 - Supervision, Repair of cards, Digital as well as Analog instruments

OFFICE PLUS PVT. LTD.(Chandigarh)

- Trainee Engineer during period 18 -11-1997 to 12-4-1998.
 - Service & Repair of Fax machine, EPABX Machine.

EDUCATION

Technical:

- **Ph.D** on “Contention Mitigation in Optical Burst Switching Networks” in Electronics and Communication Engineering Department from Singhania University, Rajasthan in 2012.
- **M.Tech** (Electronics & Communication Engineering.) from PTU JALANDHAR by securing 70% Marks in 2007.
Title of Thesis: Mammographic Image Analysis
- **A.M.I.E. (Electronics & Communication Engg.)** from the THE INSTITUTION OF ENGINEERS (INDIA), CALCUTTA in 2002.
- **A.M.I.E. (Electrical Engg.)** from the THE INSTITUTION OF ENGINEERS (INDIA), CALCUTTA only 2 papers left
- **3 year Diploma** in Electronics and Communication Engineering from G.T.B Khalsa Polytechnic, Malout under Punjab Sate Board of Technical Education & Industrial Training by securing 70% Marks in 1997.
- **3 months Computer Software Course** from ISCT Computer Center, Ropar covering DOS, Windows, Ms-Office.

Academic:

- **12th (Non –Medical)** from Punjab School Education Board in March 1993.
- **Matric** from Punjab School Education Board in March 1991.

PUBLICATION

➤ **International Journals:**

Twenty Five Publications (*List Attached as Annexure 1*)

Two Major Publications:

S. No.	Authors	Title	Year	Journal, Volume and No.
1	Hardeep Singh, Jai Parkash, Dinesh Arora and AmitWason	Fault Tolerant Congestion Based Algorithms in OBS Network	2011	International Journal of Engineering-CSC Journals, ISSN (Online) - 1985-2312, Vol.5, No.5, Paper ID-IJE-317, pp.350-359.
2	Hardeep Singh, Jai Parkash, Dinesh Arora and AmitWason	Wavelength assignment Algorithms in OBS Networks	2012	OPTIK: International Journal for Light and Electron Optics, ISSN: 0030-4026, Paper ID-11-626, Vol.123, No. 20.

➤ **International Conference:**

Seven Publications (*List Attached as Annexure 1*)

➤ **National Conference:**

Fifteen Publications (*List Attached as Annexure 1*)

➤ **Books :**

- A Text Book on **Electronics Instruments and Measurement** published by IPH Publications, Jalandhar
- A Text Book on **Electronics Instrumentation** published by IPH Publications, Jalandhar
- A Text Book on **Optical Fiber Communication** published by IPH Publications, Jalandhar
- Question Bank on **Electronics Instruments and Measurement** published by IPH Publications, Jalandhar

Co- Author in Books:

- A Text Book on **Microprocessor (8085)** published by IPH Publications, Jalandhar
- A Text Book on **Advanced Microprocessor (8086 & Micro Controller)** published by IPH Publications, Jalandhar
- A Text Book on **Principle of Communication Engineering** published by IPH Publications, Jalandhar
- Question Bank on **Advanced Microprocessor** published by IPH Publications, Jalandhar

MEMBERSHIP

- **Associate** of The Institution Of Engineers (India), Calcutta
- **MIETE** (Life Membership-Institution of Electronics & Telecom Engineers)

THESIS GUIDED

- Guided Two M.Tech Thesis on “Optical Fiber Technology” under Punjab Technical University, Jalandhar.

EXTRA ACTIVITIES

- **Associate Dean Academics** at Indo Global College of Engineering, Abhipur (Mohali)
- Involvement in preparation of various function in college
- Paper checking in the Technical board & PTU
- Discipline Committee member
- Supdt. in the Examination
- Coordinator for PTU Youth Fest
- Coordinator for Convocation in Indo Global College of Engineering for last 3 Years.

WORKSHOPS/TRAINING/CONFERENCES ATTENDED

- Attended a Conference Software **Testing an Emerging Field** on Feb2009, UNO InfoTech, is an American based organization.

- Attended winter school on **Strategic Management for Excellence** conducted by NITTTR, Chandigarh at Indo Global College of Engineering, Abhipur from 19/1/09 to 23/01/09.
- Short term Training Programme on **New Trends in Mobile communication** (AICTE & ISTE sponsored) at Rayat Institute of Engg & Technology, Railmajra (Nawanshahar) from 23/6/2008 to 27/6/2008.
- **Faculty Awareness Camp on Entrepreneurship** (Sponsored by-ISTE & National Science and Technology Entrepreneurship development Board) at Rayat Institute of Engg & Technology, Railmajra (Nawanshahar) from June28, 2008 to June30, 2008.
- Training Program on **Occupational Hazards, Safety and Environment** at TTTI, Chandigarh form 9/1/2002 to 11/1/2002.
- Short term program (2/5/05 to 6/5/05) on **Evaluation and Setting of Question paper** conducted by TTTI, Chandigarh.
- Participation in workshop for **Curriculum (For Polytechnic Colleges) revised** in February 2005 at TTTI, Chandigarh.
- Completed MHRD/AICTE sponsored summer school on “**Effective Curriculum Implementation**” conducted by the NITTTR Chandigarh from 14/9/2009 to 18/9/2009.
- Workshop on “**Recent Trends in Optical Fiber Communication**” on 19/7/2010 to 20/7/2010 conducted by Eureka Electrosoft Solutions Pvt. Ltd
- Workshop on “**Route Planning in Optical Fiber Communication**” on 4/3/2011 conducted by Eureka Electrosoft Solutions Pvt. Ltd.
- Faculty Development Program for Technical Teachers from 12/7/2010 to 16/7/2010 at Indo Global College of Engineering, Abhipur, Mohali.
- Faculty Development Program on “**Recent Advancements in IT and Communication**” from 19/7/2010 to 23/7/2010 at Indo Global College of Engineering, Abhipur, Mohali.
- Faculty Development Program on “**Next Generation Wireless Networks**” from 26/7/2010 to 30/7/2010 at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib.
- Workshop on “**Patent Awareness**” organized by Indo Global College of Engineering in association with Punjab State Council for Science & Technology, Chandigarh on 14/12/2011.
- **41st ISTE Section Faculty Convention-2011** on 29/11/2011 held at Indo Global College of Engineering, Abhipur, Mohali.

PERSONAL DETAILS

Father's Name	:	S. Mohan Singh
Date of Birth	:	15-11-1975
Gender	:	Male
Marital Status	:	Married
Category	:	General

Dated:

(Dr. Hardeep Singh Saini)

Annexure-1

International Journals:

S. No.	Authors	Title	Year	Journal, Volume and No.
1	Hardeep Singh, Jai Parkash, Dinesh Arora and AmitWason	Contention Mitigation in Optical Burst Switching using First-Fit, Random and Reserved Channel Scheduling	2011	International Journal of Electronics &Communication Technology, ISSN: 2230-7109(Online), ISSN: 2230-9543(Print), Vol.2, Issue 3, pp.219-222.
2	Hardeep Singh, Jai Parkash, Dinesh Arora and AmitWason	Burst Contention resolving mechanism for Optical Burst Switching	2011	Research Cell: International Journal of Engineering Science, ISSN: 2229-6913, Vol.1, Issue- July 2011, pp. 65-70.
3	Hardeep Singh, Jai Parkash, Dinesh Arora and AmitWason	Analysis of Blocking Probability in OBS Networks	2011	International Journal of Scientific and Engineering Research (IJSER), ISSN 2229-5518, Vol.2, No.11.
4	Hardeep Singh, Jai Parkash, Dinesh Arora and AmitWason	Fault Tolerant Congestion Based Algorithms in OBS Network	2011	International Journal of Engineering-CSC Journals, ISSN (Online) - 1985-2312, Vol.5, No.5, Paper ID-IJE-317, pp.350-359.
5	Dinesh Arora, Jai Parkash, Hardeep Singh and AmitWason	Effect of Effective Refractive Index of Grating in FBG Splitter	2011	International journal of Engineering Science and technology (IJEST), ISSN: 0975-5462, Vol.3, No.9.
6	Dinesh Arora, Jai Parkash, Hardeep Singh and AmitWason	Reflectivity and Bragg's Wavelength in FBG	2011	International Journal of Engineering-CSC Journals, ISSN (Online) - 1985-2312. Vol.5, No.5, Paper ID-IJE-316, pp.341-349.

7	Dinesh Arora, Jai Parkash, Hardeep Singh and AmitWason,	Ethernet Passive Optical Network	2011	International Journal of Computer Science & Technology, ISSN: 2230- 7109(Online), ISSN: 2230- 9543(Print) Vol.2, Issue 4, Version-3, Paper ID- IJCST/24/3/A-371, pp.479-481.
8	Hardeep Singh , Dinesh Arora and Pardeep Kumar	Analysis of Switching Techniques in Optical Network	2011	IRACST - International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN (Online) -2249- 9555, ISSN: 2250-1355 (Print), Vol.1, No. 2, pp. 147-152.
9	Manish Kansal, Hardeep Singh Saini and Dinesh Arora	Designing & FPGA implementation of IIR filter used for detecting clinical information from ECG	2011	International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Vol.1, No.1, pp.67- 72.
10	Manish Kansal ,Vijay Kumar, Dinesh Arora and Hardeep Singh Saini ,	Designing & Implementation of Digital filter for removal of power supply noise	2011	International Journal of soft computing and Engineering (IJSCE), ISSN: 2231-2307, Vol.1, No.4, pp.242-246.
11	Manish Kansal, Dinesh Arora and Hardeep Singh Saini	FPGA Implementation of FIR Filter used for DSP using Matlab&Modelsim	2011	International Journal of Electronics Engineering Research (IJEER), Vol.3, No.3, pp.363-373.
12	Hardeep Singh , Jai Parkash, Dinesh Arora and AmitWason	Wavelength assignment Algorithms in OBS Networks	2012	OPTIK: International Journal for Light and Electron Optics, ISSN: 0030-4026, Paper ID-11-626, Vol.123, No. 20.
13	Jitender Sharma, Hardeep Singh and Dinesh Arora	Analysis of Reno: A TCP Variant	2012	International Journal of Electronic and Communication Engineering (IJECE), International Research Publication House, ISSN: 0974- 2166, Vol.5, No.3, pp.267-277.
14	Harsimranjot and Hardeep Singh Saini	Trends in Dynamic Random Access	2012	International Journal of Microcircuits and Electronic

		Memory (DRAM) Cell Design-A Review		(IJME), International Research Publication House, ISSN: 0974-2204, Vol.3, No.1, pp. 27-36.
15	ParamjeetKaur, Hardeep Singh and Satinderpal Ahuja	Review of Optical world technologies and switching network Devices	2012	International journal of advanced research in computer science and software Engineering, ISSN: 2277-128X, Vol.2, No.2.
16	Harsimranjot, Dr.S.B.L. Trapathi and Hardeep Singh Saini	Performance Optimization of Fiber Distributed Data Networks	2012	International journal of Advances in Science and Technology (IJAST), ISSN: 2229-5216, Vol.4, No.6, pp.1-5.
17	Paramjit Kaur, Hardeep Singh and Satinder Pal Ahuja	A Fault Tolerant Algorithms for the Minimization of Blocking Probability in Optical Burst Switching Network	2012	International Journal of Computer Application, ISSN: 0975-8887, Vol.52, No.21, pp.5-11
18	Punardeep Singh and Hardeep Singh Saini	Congestion Control in Wavelength Division Multiplexed Networks	2012	International Journal of Nanotechnology and Applications (IJNA), Vol.6, No.2, pp.115-122.
19	Harsimranjot, Dr.S.B.L. Trapathi and Hardeep Singh Saini	Analysis of Efficient FDDI Network	2012	International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-962, Vol.2, No.5, pp.2159-2162.
20	Hardeep Singh Saini and Dr. AmitWason	Role of Optic Sensors in Engineering and Technology	2012	International Journal of IT, Engineering and Applied Sciences Research (IJIEASR), ISSN: 2319-4413, Vol.1, No.1, pp.69-73.
21	Dinesh Arora, Jai Parkash, Hardeep Singh and AmitWason	FBG Based Splitters for Ethernet Passive Optical Networks	2012	British Journal of Engineering and Technology, Vol.1, No.1, pp.317-326.
22	Harsimranjot, Hardeep Singh Saini and Dr.S.B.L. Trapathi	Response Time and Redundancy Analysis of FDDI Network	2012	International Journal of High Performance Communication Systems and Networking, Serial Publication, Vol.4, No.2, pp.79-82.
23	Hardeep Singh Saini and Dr.Amit Wason	Contention Avoidance and Resolution Schemes in Optical	2012	International journal of Advances in Science and Technology (IJAST), ISSN:

		Burst Switched Networks		2229-5216, Vol.4, No.5, pp.25-31
24	Preeti Singh and Hardeep Singh Saini	Localization Algorithms for Mobile Wireless Sensor Networks -A Review and Future Scope	2013	International Journal of Electronics & Communication Technology (IJECT), Vol.4, No.3 (Spl.), pp.90-92.
25	Gulzar Ahmad Dar and Hardeep Singh Saini	Wavelength Assignment in Wavelength Division Multiplexed Network- A Review	2013	International Journal of Electronics & Communication Technology (IJECT), Vol.4, No.3 (Spl.), pp.120-122.

Paper Published in Inter-National Conference

1. Inderpreet Kaur, Iqbaldeep Kaur, Amit Verma and **Hardeep Singh**, “*Image Clustering network particles swam optimization*”, in International Conference on Emerging trends in Electronics and communication (11 Sep-2009) at Indo Global College of Engineering, Abhipur, Mohali, pp.4.11.
2. **Hardeep Singh**, Dinesh Arora, Suneet Garg and Gagandeep Singh, “*A Review on key research issues of Smart Antennas*”, International Conference on Emerging trends in Electronics and communication (11 Sep-2009) at Indo Global College of Engineering, Abhipur, Mohali.
3. Suneet Garg, Dinesh Arora, **Hardeep Singh** and Gagandeep Singh, “*An overview of Smart Antennas at handheld terminate*”, International Conference on Emerging trends in Electronics and communication (11 Sep-2009) at Indo Global College of Engineering, Abhipur, Mohali.
4. Dinesh Arora, Suneet Garg, **Hardeep Singh** and Gagandeep Singh, “*A Review of Interferences Rejection techniques in next generation wireless Systems*”, International Conference on Emerging trends in Electronics and communication (11 Sep-2009) at Indo Global College of Engineering ,Abhipur, Mohali.
5. Jai Prakash and **Hardeep Singh**, “*Impact of Global recession and forecasting its futuristic trends*”, in International Conference on Management at Indo Global College of Engineering, Abhipur, Mohali (2009).
6. Lipsa Walia, Inderpreet Kaur, Neenu Gupta and **Hardeep Singh**, “*Implementing Wave length multiplexing system using EDFA*”, in International Conference on Emerging trends in Electronics and communication (11 Sep-2009) at Indo Global College of Engineering

7. Dinesh Arora, Jitender Sharma and **Hardeep Singh**, “*On Training BPO Executives*”, International Conference on Training and Employment (26 Aug-2009) at Indo Global College of Engineering, Abhipur, Mohali.

Paper Published in National Conference

1. **Hardeep Singh** and Manjit Kaur, “*On Cybernetics*”, *National Conference on Communication and embedded systems*”, (12 march 2004) at Lala Lajpat Rai Institute of Engg. & Technology, Moga.
2. **Hardeep Singh** and Manjit Kaur, “*On Artificial Neural Network*”, National Conference on Communication and embedded systems (12 March 2004) at Lala Lajpat Rai Institute of Engg. and Technology, Moga.
3. Manjit Kaur, **Hardeep Singh** and Jitendra Virmani, “*Basics of Image Compression*”, pp.187-190, at Rayat Engineering College, Railmajra (Nawanshahar).
4. Manjit Kaur, **Hardeep Singh** and Jitendra Virmani, “*Image Compression Techniques*” at Rayat Engineering College, Railmajra (Nawanshahar).
5. JitendraVirmani, **Hardeep Singh** and Manjit Kaur, “*Digital Watermarking in special domain*”, National Conference on Information and Emerging Technologies-NCIET-2007(September 2007) at I.E.T. Bhaddal, Ropar, pp.240-241.
6. Jitendra Virmani and **Hardeep Singh Saini**, “*Wavelet based filtering for Digital Mammograms*”, pp.183-190, at Rayat Engg College, Railmajra (Nawanshahar).
7. *Design and Analysis of Animation System* in National Conference on Animation Perspectives organized by CSE Deptt. at Indo Global College of Engineering, Abhipur, Mohali (2009).

8. **Hardeep Singh Saini** and Dr. Dinesh Chander, “*Strategic Human Resource Management: Practices in Electronic Industry in India*” in National Conference on Recent Trends in Human Resource Management at Indo Global College of Engineering on 1st March 2012.
9. Dr. Dinesh Chander and **Hardeep Singh Saini**, “*The Challenges of Strategic Management of Human Resources in Construction Industry*” in National Conference on Recent Trends in Human Resource Management at Indo Global College of Engineering on 1st March 2012.
10. **Hardeep Singh Saini** & Dinesh Arora, “*Corporate social responsibility of electronics sector towards controlling environmental pollution*”, pp.52-54, National conference on corporate social responsibility, at Indo Global College of Engineering on 21 Oct. 2010.
11. Dr. Dinesh Chander and **Hardeep Singh Saini**, “*Role of Regulatory Bodies in Development of Quality Assurance Process in Technical Education in India*”, 41st ISTE Section Faculty Convention-2011 held on 29th November, 2011 at Indo Global College of Engineering, Abhipur.
12. Dr. Dinesh Chander, **Hardeep Singh Saini** and Dinesh Arora, “*Echo Generated in Mobile Phones and its Cancellation*”, National Conference on Advanced Communication & Instrumentation Engineering held on 11th November, 2010 at Indo Global College of Engineering, Abhipur, Mohali (India), pp.166-170.
13. Amit Wason, R.S. Kaler, **Hardeep Singh** and Dinesh Arora, “*Bandwidth Allocation and Design in Passive Optical Network*”, National Conference on Recent advances in Computational techniques in Electrical Engineering (RACTEE 2010) at Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur (Punjab).
14. Dinesh Chander and **Hardeep Singh Saini**, “*Application of Remote Sensing to Water resources Management*”, National Conference on Futuristic Trends in Computing by 2020 at Indo Global College of Engineering, Abhipur, Mohali (India),2012.
15. Punardeep, **Hardeep Singh** and Amit Wason, “*Blocking Performance of WDM Networks-A Review*”, National Conference on Challenges in Emerging Computer Technologies , at Rayat & Bahra Institute of Engineering and Bio-Technology, Mohali, 16-17 May 2012.

16. **Hardeep Singh Saini** and Dinesh Chander, “ *Use of Electronic Equipment in Automation of Irrigation Schemes in India*”, National Conference on Advancements in Solid State Devices & Circuits, at Indo Global College of Engineering, Abhipur Mohali (India),15 April-2013.
17. Punardeep, **Hardeep Singh** and Amit Wason, “*Performance Evaluation of WDM Optical Networks*”, National Conference on Futuristic Trends in Computing by 2020 at Indo Global College of Engineering, Abhipur, Mohali (India),2012.