

CURRICULUM VITAE



Name : Dr. Kamaljit Singh Bhatia

Current Profile: i) Assistant Professor,
Department of Electronics Engineering
Sri Guru Granth sahib World University, Fatehgarh sahib-
140406(Punjab)

Significant Distinctions:

1. **80 Research Publications** in leading International and National journals & conferences.
2. Authored **04 Professional/Engineering Text Books**
3. **Reviewer** for Elsevier Science's International Journal-Optical Fiber Technology, **IET-opto-electronics, IET signal processing, Taylor's and francies** International journal of electronics and SPIE's International journal-Optical Engineering.
4. **Technical member**, National Conference on Recent advancements in communication and Electronics, organized by Department of Electronics & Communication Engineering, RBIENT.
5. **Life Member**, Optical society of America (OSA), ISTE and Punjab Academy of Sciences.
6. **Technical expert** of Punjab Technical University since 2010.

Academic Achievements

RESEARCH EXPERIENCE:-

Name of the University/ Department	Duration	Subjects	Result/Progress
PTU Jalandhar & SGGSWU, Fatehgarh Sahib	2009-2014	Optical-OFDM	More than 80 research papers published

PUBLICATIONS (ANNEXURE-1: PRBAS performa)

Publications	Published/ Accepted for Publication
1. Books	04
2. Papers in International Journals	40 approx.
3. Papers in Indian Journals	--
4. Papers in Conferences / Symposia And Seminars etc.	40 approx.

Date of Birth: December 07, 1979

Educational Qualification: B. Tech (EIE) and M. Tech. (ECE) with first division,
Ph.D (ECE)

Nationality: Indian

Contact Information

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Job Profile: Education, Examination Incharge Vocational Training & Research

Targeted Trainee(s): 1. Under Graduate & Post Graduate students in Electronics,
Telecommunication, Computer Sc. Engg. & IT

2. Faculty of other Institutions.

3. Professionals from Industry.

Specialization: Optical-OFDM, Optical Fiber Communication, Wireless Comm.

Professional Experience: Teaching & Research: 13 years (approx.)

- ❖ Working as Assistant Prof. in Electronics dept. at Sri Guru Granth Sahib World University, Fatehgarh Sahib since July 19, 2012.
- ❖ As Head in Department of Electronics & Communication Engg. at Rayat-Bahra Institute of Engg. & Nano-Technology June 2008 to 2010 and as Faculty till 18 July, 2012.
- ❖ □ Worked as a Lecturer in Electronics and communication Engineering Department at D A V Institute of Engineering and Technology ,Jalandhar for 01 year approx.(Aug 2007 to June 2008)
- ❖ Worked as a Lecturer in Electronics & Communication Department at Sant Longowal Institute of Engineering & Technology (SLIET) Longowal (Sangrur, Punjab) for 02 years (Aug, 2005 to Aug 2007 approx.).
- ❖ Worked as Lecturer in CEM Kapurthala for one year.(from August ,04 to August,05)
- ❖ Worked as Lecturer in Baba Isher Singh Polytechnic Kot Ise Khan for one and a half year(from Feb 2003-Aug 2004
- ❖ Faculty at Software technology Group, Nakodar for Six months(July 2008-Feb 2002)

Current Research Activities: Coded Direct Detected Optical- OFDM system

The Objectives of my current research work are as follows

1. To analyze the performance of back to back, Amplitude-Phase modulated Optical- OFDM system.
2. To analyze the value of RIN (Relative Intensity to Noise) for Optical-OFDM System.
3. To design an Optical OFDM system using Different dimensional codes.
4. To improve the PAPR by mitigating fiber Non-Linearities with the help of RIN and adding external signals during transmission.

List of Major Publications

Publications in **Referred SCI** International Journals:

1. E K. Singh Bhatia ,T.S. Kamal, R.S. Kaler, “Peak-to-average power ratio reduction using coded signal in optical-orthogonal frequency division multiplexing systems” IET Optoelectron., *Elsevier Science*. (2012), Vol. 6, Iss. 5, pp. 250–254, doi: 10.1049/iet-opt.2011.0089, **Impact Factor-1.201 Available online at www.ieeexplore.ieee.org**.
2. Kamaljit Singh Bhatia, R.S. Kaler, T.S. Kamal, “DESIGN AND SIMULATION OF OPTICAL-OFDM SYSTEMS” Journal of Russian Laser Research, Springer Science+ Business Media (2012), Volume 33, Number 5, pp. 202-208, September, 2012, **Impact Factor-0.7, Available online at www.springerlink.com**
3. K.S. Bhatia, T.S. Kamal, R.S. Kaler, “An adaptive compensation scheme-based coded direct detection optical–orthogonal frequency division multiplex (OFDM) system” Computers and Electrical Engineering 38, *Elsevier Science* (2012) 1573–1578, <http://dx.doi.org/10.1016/j.compeleceng.2012.06.007>, **Impact Factor-0.7, Available online at www.sciencedirect.com**
4. Kamaljit Singh Bhatia, R.S. Kaler, T.S. Kamal, Rajneesh Randhawa, “Simulative analysis of integrated DWDM and MIMO-OFDM system with OADM” Optik 124, *Elsevier Science* (2013) 117– 121, doi:10.1016/j.ijleo.2011.11.081, **Impact Factor-0.5, Available online at www.sciencedirect.com**
5. Kamaljit Singh Bhatia , T.S. Kamal, “Modeling and simulative performance analysis of OADM for hybrid multiplexed Optical-OFDM system” In Press Optik , *Elsevier Science* (2013), <http://dx.doi.org/10.1016/j.ijleo.2012.05.036>, **Impact Factor-0.5, Available online at www.sciencedirect.com**

References:

1. Dr. T. S Kamal, Director, Radiant Institute of Engineering and Technology, Ex-Prof & Head ECE, SLIET, Longowal, tskamal@rediffmail.com , Mobile No:9815181005
2. Dr. R.S Kaler, Senior Prof ECE, Thaper university, Patiala, rskaler@yahoo.com Mobile No: 9872982715
3. Dr. S. K Bansal , Vice-chairman Rayat-Bahra university, kharar , Chandigarh
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