

1.	Name	Dr Vishal Sharma		
2.	Designation	Associate Professor		
3.	Date of Birth	25/11/1978		
4.	Education Qualification	PhD (ECE); M.Tech (ECE)		
5.	Work Experience			
	Teaching and Administrative	11Years		
	Research :	8 Years		
	Others :	NIL		
6.	Area of Specializations	Integrated Optical and Wireless Communication Systems		
7.	Subjects Teaching at			
	(a) Graduate Level	Optical Fiber Communication, Linear Integrated Circuits, Digital Communication, Wireless Communication, Microwave & Radar Engineering, Digital Electronics		
	(b) Post Graduate level	Optical Communication, Multimedia Communication, Information Theory and Coding, Advance Communication System		
8.	Total Number of Research Publications	Annexure- A		
9.	No. of Students Guided			
	(a) Masters	25		
	(b) PhDs	04 (Pursuing)		
10.	Academic Achievements and Awards.	NIL		
11.	Projects Carried out	NIL		
12.	Projects in Hand	NIL		
13.	Applied Project	NIL		
14.	Short-Term Courses Organized as a faculty	NIL		
16.	Short-Term Courses Attended	15		
17.	Faculty Development Programmes organized in the Institute	Annexure- B		
18.	Membership of professional bodies:	International Association of Engineers (IAENG) Membership number: 188455		
19.	Main Extra-Curricular Activities organized	Annexure-C		
20.	Main Curricular and Co-Curricular Activities	Annexure-D		

	Organized	
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Annexure-A

LIST OF PUBLICATIONS

(A) International Referred Journals

1. **Vishal Sharma**, Amarpal Singh, and Ajay K Sharma “Analysis and Simulation of the effect of spectral width over Intensity noise and Power penalty under the impact of higher order dispersion parameters in Optical Communication Systems” **Optics Communication**, Elsevier Science, Volume 281, Issue 13, pp.3495-3500, 1 July 2008, DOI: 10.1016/j.optcom.2008.02.056. IF = 1.5, SNIP = 1.207
2. Ajay K Sharma, Amarpal Singh, T S Kamal and **Vishal Sharma**, “Investigations on Power Penalty at Different Spectral Width using Small Signal Analysis with Higher-order Dispersion”, **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, vol. 119, Issue 2, pp. 53-56, Feb. 2008, doi: 10.1016/j.ijleo.2006.06.015.
3. **Vishal Sharma**, Amarpal Singh, and Ajay K Sharma “Analysis of the impact of Laser line width over RIN, Power Penalty and Bit Rate including higher order dispersion in WDM Systems” in **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, Volume 120, Issue 15, Pages 741-745, October 2009, DOI: 10.1016/j.ijleo.2008.04.001.
4. **Vishal Sharma** , Amarpal Singh , Ajay K. Sharma “Simulative Investigation of Non linear distortion in single- and two- tone RoF System using Direct- and External- Modulation Techniques” **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, Volume 121, Issue 17, pages: 1545-1549, September 2010, DOI: 10.1016/j.ijleo.2008.12.038.

5. **Vishal Sharma**, Lavish Kansal, Jagjeet Malhotra, “ BER assessment of FFT-OFDM against WHT- OFDM over different fading channels”, **Wireless Network, Springer**, May, 2016, pp: 1-8, doi 10.1007/s11276-016-1283-2
6. **Vishal Sharma**, Naresh Kumar, “Improved Analysis of 2.5Gbps-Inter-Satellite Link (ISL) in Inter-Satellite Optical Wireless Communication (OWC) System”, **Optics Communication, Elsevier**, Volume 286, 1 January 2013, Pages 99-102, DOI: 10.1016/j.optcom.2012.08.055
7. **Vishal Sharma** , Amarpal Singh, Ajay K. Sharma “Simulative Investigation of the impact of EDFA & SOA over BER of a single- tone RoF System using Direct- and External- Modulation Techniques” **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, Volume 121, Issue 14, Pages 1280-1284 , August 2010, DOI: 10.1016/j.ijleo.2009.01.031
8. **Vishal Sharma**, Amarpal Singh, Ajay K. Sharma “Simulative investigation the impact of optical amplification techniques on single- and dual-electrode MZM and direct modulator's in single-tone RoF system” **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, Volume 122, Issue 5, Pages 371-374, March, 2011, DOI: 10.1016/j.ijleo.2010.02.021
9. **Vishal Sharma**, Amarpal Singh, Ajay K. Sharma “Transmission Performance of OSSB-RoF System Using MZM Electro-Optical External Modulator”, **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, Volume 124, Issue 13, July 2013, Pages 1555-1559, DOI: 10.1016/j.ijleo.2012.04.023
10. **Vishal Sharma**, Amarpal Singh, Ajay K. Sharma “Simulative Investigation on the Impact of Laser- Spectral Width in Single–tone Optical Single Side-band Radio over Fiber Transmission System incorporating Dual Electrode Mach Zehnder Modulator” **Optics & Laser in Engineering**, Elsevier, Volume 47, Issue 11, Pages 1145-1149, November 2009, DOI: 10.1016/j.optlaseng.2009.06.012.
11. **Vishal Sharma**, Amarpal Singh, Ajay K. Sharma “Challenges & its Mitigation Methods in Radio over Fiber (RoF) Technology - A Review” **Optik**, International Journal for Light and Electron Optics, Germany, Elsevier Science, Volume 123, Issue 4, February 2012, Pages 338-342, DOI: 10.1016/j.ijleo.2011.02.031

12. **Vishal Sharma**, Amarपाल Singh, Ajay K. Sharma, “RF-and Optical- Integrated Radio-over-Fiber (RoF) Network with High Channel Allocation Capability”, Accepted, **Optik, Elsevier**, Volume 124, Issue 13, July 2013, Pages 1536-1541, DOI: 10.1016/j.ijleo.2012.04.025
13. **Vishal Sharma**, Harsukhpreet Singh, Jagjit Malhotra, “Quality of Service (QoS) evaluation of IEEE 802.11 WLAN using different PHY-Layer Standards” , **OPTIK, Elsevier**, Volume 124, Issue 4, February 2013, Pages 357-360, DOI: 10.1016/j.ijleo.2011.12.009
14. **Vishal Sharma**, Mandeep Kaur, Vijay Banga, “Performance Evaluation of Reactive Routing Protocols in MANET Networks using GSM based Voice Traffic Applications”, **Optik, Elsevier**, Volume 124, Issue 15, August 2013, Pages 2013-2016, DOI: 10.1016/j.ijleo.2012.06.040
15. **Vishal Sharma**, Ramandeep Kaur, “Implementation of Eight Channel-DWDM System in the presence of Four Wave Mixing (FWM) under the Impact of Channel Spacing”, **Optik, Elsevier**, Volume 124, Issue 17, September 2013, Pages 3112-3114, DOI: 10.1016/j.ijleo.2012.09.049
16. **Vishal Sharma, Sushank**, “ Empirical Estimation of wired and Wireless-OFDM-OSSB-RoF Transmission System ”, **Optik, Elsevier**, Volume 124, Issue 20, October 2013, Pages 4529-4532, DOI: 10.1016/j.ijleo.2013.01.045
17. **Vishal Sharma, Sushank**, “Hybrid OFDM-OSSB-RoF Transmission System Incorporating Fiber Bragg Grating”, **Optik, Elsevier**, Volume 124, Issue 20, October 2013, Pages 4670-4672, DOI: 10.1016/j.ijleo.2013.01.068
18. **Vishal Sharma**, Naresh Kumar, “Modeling of 2.5Gbps-Intersatellite Link (ISL) in Inter-Satellite Optical Wireless Communication (IsOWC) System”, **Optik, Elsevier**, Volume 124, Issue 23, December 2013, Pages 6182-6185, DOI: 10.1016/j.ijleo.2013.04.094
19. **Vishal Sharma**, Gurimandeep Kaur, “High Speed, Long Reach OFDM-FSO Transmission Link Incorporating OSSB and OTSB Schemes”, **Optik, Elsevier**, Volume 124, Issue 23, December 2013, Pages 6111-6114, DOI: 10.1016/j.ijleo.2013.04.100
20. **Vishal Sharma**, Jagveer Kaur, Amarपाल Singh, “Theoretical Investigation of XPM Induced Crosstalk under the Impact of Higher Order Dispersion (HOD) in SCM-WDM

Transmission Link”, **Journal of Optical Communication, Degruyter**, Volume 33, Issue 4, Pages 331–337, Dec 2012, DOI 10.1515/joc-2012-0058

21. **Vishal Sharma**, Amanpreet Kaur, “Modeling and Simulation of Long Reach High Speed Inter-Satellite Link (ISL)”, *Optik, Elsevier*, Volume 125, Issue 2, January 2014, Pages 883-886, DOI: 10.1016/j.ijleo.2013.07.090
22. **Vishal Sharma**, Amanpreet Kaur, “Modeling and Simulation of FBG based OCDMA-IsOWC System” , *Optik, Elsevier*, Volume 125, Issue 6, March 2014, Pages 1727-1729, DOI: 10.1016/j.ijleo.2013.09.058
23. **Vishal Sharma**, Sushank, ”High Speed CO-OFDM-FSO Transmission System”, *Optik, Elsevier*, Volume 125, Issue 6, March 2014, Pages 1761-1763, DOI: 10.1016/j.ijleo.2013.10.010
24. **Vishal Sharma**, Mini Lumba, Gurimandeep Kaur, “ Severe Climate Sway in Coherent CDMA-OSSB-FSO Transmission System”, *Optik, Elsevier*, Volume 125, Issue 19, October 2014, Pages 5705s-5707, [doi:10.1016/j.ijleo.2014.06.123](https://doi.org/10.1016/j.ijleo.2014.06.123)
25. **Vishal Sharma**, Shiwani Sharma, “Performance Analysis of Bidirectional Hybrid Orthogonal Frequency Division Multiplexing-Ethernet Passive Optical Access Network”, **Journal of Optical Technology, Optical Society of America (OSA)**, Volume 82, Issue 9, pp. 576-648, 2015, doi: [10.1364/JOT.82.000621](https://doi.org/10.1364/JOT.82.000621)
26. **Vishal Sharma**, Shiwani Sharma, “Hybrid Multiplexed OFDM-DWDM-EPON Access Network”, *OPTIK, Elsevier*, Volume 125, Issue 21, November 2014, Pages 6404-6406, [doi:10.1016/j.ijleo.2014.06.123](https://doi.org/10.1016/j.ijleo.2014.06.123)
27. **Vishal Sharma**, Gurpreet Singh, “On BER Assessment of Conventional- and Wavelet-OFDM over AWGN Channel”, *OPTIK, Elsevier*, Volume 125, Issue 20, October 2014, Pages 6071-6073, [doi:10.1016/j.ijleo.2014.07.073](https://doi.org/10.1016/j.ijleo.2014.07.073)
28. Lavish Kansal, **Vishal Sharma**, Jagjit Sing, “ Performance assessment of precoded OFDM using discrete cosine-based DOST transform”, *Optik - International Journal for Light and Electron Optics*, Volume 127, Issue 18, September 2016, Pages 7242-7249
29. Vishal Kumar Arora, **Vishal Sharma**, Monika Sachdeva, “ A survey on LEACH and other’s routing protocols in wireless sensor network”, *Optik - International Journal for Light and Electron Optics*, Volume 127, Issue 16, August 2016, Pages 6590-6600

30. **Vishal Sharma**, Ramandeep Kaur, “Impact of Laser Line-width in 40Gbps DWDM Transmission system in the presence of FWM Incorporating Equal Channel Spacing”, **Journal of Optical Communication, Degruyter**, Volume 33, Issue 4, Pages 297–303, Dec 2012, DOI 10.1515/joc-2012-0052
31. Lavish Kansal, **Vishal Sharma**, Jagjit Singh, “Performance evaluation of FFT-WiMAX against WHT-WiMAX over Rayleigh fading channel”, *Optik - International Journal for Light and Electron Optics*, Volume 127, Issue 10, May 2016, Pages 4514-4519
32. **Vishal Sharma**, Harsukhpreet Singh, Jagjit Malhotra, “Performance Analysis of IEEE 802.11e (EDCF) and IEEE 802.11(DCF) WLAN Incorporating Different Physical Layer Standards”, **Institution of Engineers: Series B, Springer**, Volume 93, Issue 4, pp 247-253, December 2012
33. **Vishal Sharma**, Amit Grover, “A modified ant colony optimization algorithm (MACO) for energy efficient wireless sensor networks”, *Optik - International Journal for Light and Electron Optics*, Volume 127, Issue 4, February 2016, Pages 2169-2172
34. **Vishal Sharma**, Harleen Kaur,” On BER evaluation of MIMO-OFDM incorporated wireless system”, *Optik - International Journal for Light and Electron Optics*, Volume 127, Issue 1, January 2016, Pages 203-205
35. **Vishal Sharma**, Rajni, “Investigation of Pre-, Post- and Symmetric-Dispersion Compensation Techniques (DCF) using Different Modulation Formats over High-Speed Optical Link”, **Journal of Optical Communication, Degruyter**, Volume 33, Issue 3, pp.227-240
36. **Vishal Sharma**, Harleen Kaur, “On BER Evaluation of MIMO-OFDM incorporated Wireless System”, *OPTIK, Elsevier*, Volume 117, Issue 1, JAn, 2016, pp: 203-205
37. **Vishal Sharma**, Amit Grover, “A Modified Ant Colony Optimization Algorithm (mACO) for Energy Efficient Wireless Sensor Networks”, *OPTIK, Elsevier*, Volume 127, Issue 4, Feb, 2016, pp: 2169-2172
38. **Vishal Sharma**, Lavish Kansal, Jagjeet Malhotra, “Performance valuation of FFT-WiMAX against WHT- WiMAX over Raleigh fading channel”, *Optik, Elsevier*, Volume 127, Issue 10, May, 2016, pp: 4514-4519

39. **Vishal Sharma**, Lavish Kansal, Jagjeet Malhotra, “Performance assessment of pre-coded OFDM using discrete cosine based DOST algorithm”, *Optik*, Elsevier, Volume 127, Issue 18, September, 2016, pp: 7242-7249
40. **Vishal Sharma**, Sunil Gautam, “DPSK Modulated (Tbps) Transmission Incorporating Dispersion Compensated Hybrid Amplifier”, **Journal of Optical Communication, Degruyter**, Volume 34, Issue 4, pp: 269-274, 2013; DOI: 10.1515/joc-2013-0026
41. Vishal Arora, **Vishal Sharma, Monika Sachdeva**, “ A survey on Leach and other’s routing protocols in wireless sensor Network”, *Optik*, Elsevier, Volume 117, Issue 16, August, 2016, pp: 6590-6600
42. **Vishal Sharma, Gurimandeep Kaur**, Degradation Measures in Free Space Optical Communication (FSO) and it’s Mitigation Techniques -A Review, *IJCA*, 55(1):23-27, October 2012
43. **Vishal Sharma, Sunil Gautam**, “Optimized Location based performance analysis of Fiber Raman Amplifier (FRA)”, *IJCA*, 57(7):5-9, November 2012
44. **Vishal Sharma, Sushank**, “Implementation of Hybrid OFDM-FSO Transmission System”, *IJCA*, 58(8):37-40, November 2012
45. **Vishal Sharma, Sunil Gautam** , “Impact of Fiber Raman Amplifier (FRA) in DCF based High Speed WDM System”, DOI: NCE112012007, **CIIT- International Journal of Network & Communication**, Nov 2012
46. **Vishal Sharma**, Navneet Kaur, “Location Based QoS Estimation of OFDM-WIMAX Network”, DOI WC122012005, **CiiT-International Journal of Wireless Networking**, Dec 2012
47. **Vishal Sharma**, Navneet Kaur, “Performance Estimation of OFDM-WIMAX Network”, *IJCNWMC*, Trans steller, volume 3, Issue 1, pp: 39-46, March 2013
48. **Vishal Sharma**, Shashi Kant, Harsukhpreet Singh, “Implementation and Analysis of OFDM based IEEE 802.11g VANET”, *IJCNWMC*, Trans steller, volume 3, Issue 1, pp: 47-54, March 2103
49. **Vishal Sharma**, Mandeep Kaur, Vijay Banga, “A Survey on Reactive Adhoc Routing Protocols in MANET Networks”, Accepted, **CiiT-International Journal of Wireless Networking**, DOI: WC042012001, April 2012.

50. **Vishal Sharma**, Jagveer Kaur, Amarpal Singh “Crosstalk Due to XPM under the Impact of Higher Order Dispersion Parameters in SCM-WDM Link”, **CIIT- International Journal of Network & Communication**, vol 4, No 4, pp. 183-189, April 2012.
51. **Vishal Sharma**, Amrita Tyagi, “Modeling and Simulation of EPON based symmetric FTTH Access Network”, **CiiT-International Journal of Wireless Networking**, vol 4, No 15, pp. 944-948, **Dec 2012**
52. **Vishal Sharma**, Jaspreet Singh, “On the BER Evaluation for Wireless OFDM System over Multipath Fading Channels”, **CiiT-International Journal of Wireless Networking**, **March 2013**, DOI: WC032013004

(B) National Referred Journals

1. Amarpal Singh, Ajay K Sharma, T S Kamal, **Vishal Sharma**, “Analyzing the Effect of Four Wave Mixing Including First- and Second-order Dispersion Parameters in Wavelength Division Multiplexing (WDM) Systems”, *Journal of Ultra Scientist of Physical Sciences, An International Journal in Physical Sciences*, vol. 18 (3), pp. 323-332, March 2006.
2. Amarpal Singh, Ajay K Sharma, T S Kamal, **Vishal Sharma**, Paramjit Singh, “A comparative Analysis using Fuzzy Modeling and OptSim on WDM Systems in the presence of FWM and its Compensation Technique”, *Journal of Scientific and Industrial Research (JSIR), National Institute of Science Communication and Information Resources (NISCAIR)*, vol. 66, pp. 339-344, April 2007, New Delhi, India.

(C) International Conferences

1. **Vishal Sharma**, Amarpal Singh, “Analytical Investigation on the Impact of Chirping over Chromatic Dispersion and Link Distance in Radio over Fiber Communication Systems”, Published in International Conference (WECON-2008), p.p 620-623, 18-19, Oct, 2008, Chitkara Institute of Engineering & Technology, Punjab.
2. **Vishal Sharma**, Harsukhpreet Singh, Jagjit Malhotra, “Performance Evaluation of MAC and PHY-Protocols in IEEE 802.11 WLAN”, In proceeding of HPAGC (2011), Springer, CCIS 169, pp. 497–503, 2011.

3. **Vishal Sharma, Sushank, Gurimandeep Kaur**, “Hybrid OFDM-Inter-Satellite Optical Wireless Communication (IsOWC) System Incorporating ODSB, OTSB and OSSB Modulation Techniques”, in the proceeding of NAVCOM’12, IEEE, Hyderabad, 2012, India
4. **Vishal Sharma**, Harsukhpreet Singh, Vijay Banga, Mandeep Kaur, “Node-Mobility Sway in IEEE 802.11g MANET ”, IEEE-ACCT 2013 3rd International Conference on Advanced Computing & Communication Technologies (ACCT 2013), pp:261-266, 2013,India, 10.1109/ACCT.2013.64
5. **Vishal Sharma**, Gurimandeep Kaur,“ Modeling of OFDM-ODSB-FSO Transmission System under Different Weather Conditions”, IEEE-ACCT 2013 International Conference on Advanced Computing & Communication Technologies (ACCT 2013), pp:154-157, 2013, India, 10.1109/ACCT.2013.37
6. **Vishal Sharma**, Amanpreet Kaur, “Optimization of Inter-satellite Link (ISL) in Hybrid OFDM-IsOWC Transmission System” in the proceeding of CNC’13, Springer/IDES, Chennai, India, Digital Object Identifier: 03.LSCS.2013.1.525, Page(s): 25 - 28, 2013
7. **Vishal Sharma**, Amanpreet Kaur, “Challenging Issues in Inter-Satellite Optical Wireless Systems (IsOWC) and its Mitigation Techniques” in the proceeding of CNC’13, Springer/IDES, Chennai, India, Digital Object Identifier: 03.LSCS.2013.1.511, Page(s): 52 - 54, 2013
8. **Vishal Sharma**, Harsukhpreet Singh, Shashi Kant, “Challenging Issues in VANET Network and its Routing Algorithms-An Analysis” in the proceeding of CNC’13, Springer/IDES, Chennai, India, Digital Object Identifier: 03.LSCS.2013.1.515, Page(s): 48 - 51, 2013
9. **Vishal Sharma**, Jaspreet Singh, “Soft- and Hard- coded OFDM System over Diverse Environment ”, Accepted, IEEE-ARTCOM’13, Elsevier Track, Bangalore, India, 2013
10. **Vishal Sharma**, Jaspreet Singh, “MMSE based OFDM Wireless System over Diverse Environment”, International Conference on Information & Mathematical Sciences, Elsevier, 24-26 Oct 2013, pp: 251-254, ISBN- 9789351071624
11. **Vishal Sharma**, Harsukhpreet Singh, Shashi Kant, “AODV based energy efficient IEEE 802.16g VANET”, Fifth International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2013), The Institute of Engineering &

Technology (IET), January 2013, pp: 35-43, DOI: [10.1049/cp.2013.2221](https://doi.org/10.1049/cp.2013.2221); ISBN: 978-1-84919-842-4

12. **Vishal Sharma**, Navneet Kaur, “Protocol based QoS Estimation of OFDM-WIMAX Network”, Accepted, International Conference on Recent Trends in Communication and Computer Networks (COMNET’13), Elsevier, Nov 08-09, 2013; Hyderabad, India, ComNet2013-550R
13. **Vishal Sharma, Shiwani Sharma**, “High Speed, Long Reach OFDM-DWDM-EPON system”, Fourth International Conference on Advanced Computing & Communication Technologies (ACCT’14), IEEE, pp: 150-152, 8-9 February 2014
14. **Vishal Sharma, Mini Lumba**, “ Cloud Burst Sway in OFDM-FSO Transmission Link”, Fourth International Conference on Advanced Computing & Communication Technologies (ACCT’14), IEEE, pp: 124-127, 8-9 February 2014
15. **Vishal Sharma, Gurpreet Singh**, “Wavelet-OFDM (W-OFDM) over Diverse Fading Channels”, Fourth International Conference on Advanced Computing & Communication Technologies (ACCT’14), IEEE, pp: 128-132, 8-9 February 2014
16. **Vishal Sharma**, Shiwani Sharma, “Implementation of 10Gbps Downstream OFDM-EPON Transmission System”, 1st International Conference on Computing, Communication & Systems (ICCCS-2014)”, pp:184-185, 8-9 August, 2014, SBSSTC, Ferozepur
17. **Vishal Sharma**, Gurpreet Singh, “BER Analysis of MIMO-OFDM System Using various Modulation Schemes”, 1st International Conference on Computing, Communication & Systems (ICCCS-2014)”, pp: 193-195, 8-9 August, 2014, SBSSTC, Ferozepur
18. **Vishal Sharma**, Harleen Kaur, Gurpreet Singh, “Performance Comparison of Wavelet Based and Conventional OFDM Systems – A Review”, 1st International Conference on Computing, Communication & Systems (ICCCS-2014)”, pp:216-218, 8-9 August, 2014, SBSSTC, Ferozepur
19. **Vishal Sharma**, Navneet Kaur Bajwa, “Smart Transmitters and Receivers for Underwater Free-Space Optical Communication – A Review”, 1st International

Conference on Computing, Communication & Systems (ICCCS-2014)”, pp:233-237, 8-9 August, 2014, SBSSTC, Ferozepur

20. **Vishal Sharma**, Harleen Kaur, Gurpreet Singh, “BER Assessment of MIMO incorporated W-OFDM Wireless Communication System”, 5th IEEE International Conference on Advance Computing & Communication Technologies , 2015, pp: 463-466, [Doi 10.1109/ACCT.2015.94](https://doi.org/10.1109/ACCT.2015.94)
21. **Harsukhpreet Singh, A. Kaur, A. Sharma, Vishal Sharma**, “Performance Optimization of DCF-MAC Standard Using Enhanced RTS Threshold under Impact of IEEE 802.11n WLAN “, 5th IEEE International Conference on Advance Computing & Communication Technologies , 2015, pp: 421-424, [10.1109/ACCT.2015.85](https://doi.org/10.1109/ACCT.2015.85)
22. Lovish Kansal, **Vishal Sharma**, Jagjeet Malhotra, “BER Assessment of FEC Incorporated OFDM-MPSK Wireless System “, 5th IEEE International Conference on Advance Computing & Communication Technologies , 2015, pp: 379-384, DOI: [10.1109/ACCT.2015.21](https://doi.org/10.1109/ACCT.2015.21)
23. **Vishal Sharma**, Navneet Kaur Bajwa, “Optical Tandem Side Band treated FSO link under the influence of Turbulent Environment”, 2nd Advances in Information processing and Communication Technology, IPCT-2015, Rome, Italy, pp: 47-50, [Doi 10.15224/978-1-63248-044-6-22](https://doi.org/10.15224/978-1-63248-044-6-22)

(D) National Conferences

1. **Vishal Sharma**, Amarpal Singh, Paramjit Singh, “Effect of SPM and XPM over four wave mixing in wavelength division multiplexing (WDM) systems”, National conference RAECT-06, Ludhiana, Nov, 2006.
2. **Vishal Sharma**, Amarpal Singh, “Comparative Study by Simulation of Different External Modulators with Adjustable Chirp in Radio over Fiber Communication Systems” proceeding of NCOW, supported by Institute of Engineers (INDIA) and RSOFT (USA), 27-28 Nov, 2008, DAVIET, Jalandhar
3. **Vishal Sharma**, Neeru Malhotra, Harsukhpreet Singh, “Simulative Analysis of Intensity Fluctuations due to Fiber Non-Linearity in DPSK Modulated WDM System at 40Gbps ”

proceeding of NCOW, supported by Institute of Engineers (INDIA) and RSOF (USA), 27-28 Nov, 2008, DAVIET, Jalandhar

4. **Vishal Sharma**, Amarpal Singh, Deepak Aggarwal “Experimental Approach to Analyze the Effect of PMD with Different Bit Rates and Modulation Formats in long haul Optical Communication System”, proceeding of NCOW, supported by Institute of Engineers (INDIA) and RSOF (USA), 27-28 Nov, 2008, DAVIET, Jalandhar
5. **Vishal Sharma**, Amarpal Singh, Paramjit Singh, “Performance Evaluation of Multi-tone Radio over Fiber (RoF) Transmission System under the Impact of Fiber Non-Linearity “, SLIET, 2011
6. **Vishal Sharma**, Gurpreet Singh, “Multi-carrier Multiplexing (OFDM) Scheme incorporating Diverse Modulation Techniques”, National Conference on Innovations in Engineering and Technology (IEIT-2014), March 28- 29, 2014
7. **Vishal Sharma**, Shivani Sharma, “Downstream OFDM-EPON System incorporating Diverse Modulation Schemes”, National Conference on Innovations in Engineering and Technology (IEIT-2014), March 28-29, 2014

(E) Invited Talk

1. Expert Talk in NITTTR sponsored FDP on “Transmission Characteristics & Degradations Factors in OFC ”at Malout Institute of Management and Information Technology (MIMIT), Malout, Punjab, India on 7th July 2014
2. Expert Talk in PTU sponsored National level Conference “Innovation in Engineering and Information Technology” at KCET, Amritsar 18th June 2014
3. Expert Talk in PTU sponsored FDP in “Recent Trends in Wireless and Image Processing” at BKSJ-EC, Amritsar on 21-22 May, 2012
4. Expert Talk in PTU sponsored FDP in on “Photonics based communication systems” at Global Institute of Technology and Management, Amritsar, Punjab, India 18th June 2014

Annexure-B

Faculty Development Programme organized in the Institute

S. No	Name of FDP	Dept	From	To
1	Two week AICTE-TEQIP sponsored Staff development Program (SDP) organized in SBSSTC, Fzr “ Nature Inspired Optimization Techniques ”.	ECE	6th May, 2013	17 th May, 2013
2	One week AICTE-TEQIP sponsored Faculty development Program (FDP) organized in SBSSTC, Fzr from, 2013 on “ Recent Trends in Optical and Wireless communication system design ”.	ECE	9 to 13th Sept 2013	13 Sept, 2013
3	Organized as a Co-coordinator in One week AICTE-TEQIP sponsored Faculty development Program (FDP) organized in SBSSTC, Fzr on “ Photonics ”.	ECE	14 th October 18, 2013	18 th Oct, 2013

Annexure-C

Main Extra-Curricular Activities organized

1. Organized National Level Tech-Fest'10, “Chazzans'10” from 12th to 14th Nov, 2010 in SBSCET, Ferozepur as Faculty In-charge and Convener of *ISTE (Student Chapter)* and Convener.
2. Organized Technical work shop on “Designing Issues of Mechatronics-Robotics” from 22nd to 24th October, 2010 in SBSCET, Ferozepur as Faculty In-charge of *ISTE (Student Chapter)*.
3. Organized National Level *ISTE (Student Chapter)* “Techno'Opus 2015” from 12th to 14th Feb, 2015 in SBSCET, Ferozepur as Co-ordinator.
4. Organized National Level *ISTE (Student Chapter)* “Techno'Opus 2013” from 13th to 15th Feb, 2013 in SBSCET, Ferozepur as Active Member of Technical Event management Committee.

5. Organized Technical work shop on Network security in collaboration with Appin Technologies, New Delhi from 22nd to 23rd March, 2010 in SBSCET, Ferozpur as Faculty Incharge and Convener of *ISTE (Student Chapter)*.
6. Organized National Level Tech-Fest'09 from 13th to 15th Nov, 2009 in SBSCET, Ferozpur as Faculty Incharge and Convener of *ISTE (Student Chapter) and Convener*.
7. Organized two day Techfest on 25th -26th Feb 2015 in SBSCET, Ferozpur as Faculty Incharge of SELCOME.
8. Organized three day Techfest on 11th -13th Feb 2014 in SBSCET, Ferozpur as Faculty Incharge of SELCOME.

Annexure-D

Main Curricular and Co-Curricular Activities Organized

1. Organized TEQIP-II sponsored **“1st International Conference on Computing, Communication & Systems”** as a Co-Convener in SBSSTC, Fzr from 8th to 9th Aug, 2014
2. Organized TEQIP-II sponsored **“National Conference on Computing, Communication & Systems”** as a Active member of Editorial Board in SBSSTC, Fzr from 24th to 25th Aug, 2015
3. Organized TEQIP-II sponsored **“National Conference on Computing, Communication & Systems”** as a Active member of Organizing Committee in SBSSTC, Fzr from 24th to 25th Aug, 2015