1	**Name**	Vishal Kumar Arora	
2	**Designation**	Assistant Professor	
3	**Date of Birth**	07/08/1980	
4	**Education Qualification**	Ph.D. in CSE **PURSUING** M.Tech in CSE B.Tech in CSE	
		Email:	
		Vishal.fzr@gmail.com	vishal.arora@sbsstc.ac.in
5	**Work Experience**	**Teaching and Administrative**	
	Teaching From 23rd Dec 2008 – till date, **Assistant Professor**, Deptt.of Computer Science & Engineering, Shaheed Bhagat Singh State Technical Campus, Ferozepur.		9 Years 8 months
	16th July 2006-22nd Dec, 2008 Assistant Professor, BCET, Gurdaspur.		2 Years 5 months
	July 2004-15th July, 2005, Lecturer, AIET, Faridkot		1 Year
	Administrative Responsibilities:		
	Jan 2012 – 2018, Public Information Officer of College, Shaheed Bhagat Singh State Technical Campus, Ferozepur		6 years
	Course **Coordinator**, Wireless Network, M.Tech. CSE, MRSPTU, Bathinda.		1 year
	Jan 2017, **Member of Admission Committee** for 2017-18 admissions at Shaheed Bhagat Singh State Technical Campus, Ferozepur.		
	May 2015 – till date, **NBA Committee** Member of CSE Deptt, SBSSTC, Ferozepur		
	February 2009 – till date, **Incharge**, Computation Lab, CSE Deptt, SBSSTC, Ferozepur		

		Research	From: 2014 to till date
		Others:	
6	**Area of Specializations**	Wireless Sensor Network.	
7	**Subjects Teaching at**	**(a) Graduate Level**	
		Theory of Computation Object Oriented Programming Data Structure Operating System DBMS Software Engineering	
		(b) Post Graduate Level	
		Advanced Computer Network Advanced Software Engineering Advanced Computer Architecture Distributed Systems Software Engineering & methodology Advanced Operating System	
8	**Total Number of Research Publications (Annexure-A)**		Communicated –
9	**Number of Students Guided**	**M.Tech**	**20**
		PhD	Nil
10	**Academic Achievements and Awards**	Appreciation Certificate from Director, SBSSTC, Ferozepur for Organizing 1st International Conference on Communication, Computing and Systems (ICCCC-2014) held in August 2014 at SBSSTC, Ferozepur	
		Appreciation Certificate from Director, SBSSTC, Ferozepur for Member of Editorial Board in "National Conference on Communication, Computing and Systems 2015" held in August 2015 at SBSSTC, Ferozepur	
		Appreciation Certificate from Director, SBSSTC, Ferozepur for Session Chair in "National Conference on Communication, Computing and Systems (NCCCES) 2016" held in November 2016 at SBSSTC, Ferozepur	
		Appreciation Certificate from Director, SBSSTC, Ferozepur for Member of Editorial Board in one National Conference on "National Conference on Communication, Computing and Systems (NCCCES) 2016" held in November 2016 at SBSSTC, Ferozepur	
		Co-ordinator of FDP on "New Computing & Emerging	

		Technologies" during 26-30 August 2013 held at SBSSTC, Ferozepur	
11	**Projects Carried Out**	**NIL**	
12	**Projects in hand**	Nil	
13	**Applied Project**	Nil	
14	**Short-Term Courses organized as a Faculty**	01	
15	**Short-Term Courses Attended**	1. Development of faculty in teaching methodology & Education management, 26-30 July, 2010 (01 week) STC held at BMSCET, Muktsar. 2. Intelligent Computation Techniques, July 4 – 15, 2011 (2 weeks) AICTE sponsored SDP held at SBS College of Engg & technology, FZR 3. Multi-Criteria Optimization Tools in Research, May 21- June 1, 2012 (2 weeks) AICTE sponsored SDP at SBS State Technical Campus, Ferozepur. 4. Cloud Computing, May 14-18 2012 (1 week) NITTTR, Chandigarh. 5. Engineering Materials, Dec 17 – 21, 2012 TEQIP –II STC at SBS State Technical Campus, Ferozepur. 6. IBM SEED, April 15-18, 2013 (4 days) at SBS State Technical Campus, Ferozepur. 7. Nature Inspired Computational Intelligence, May 6- 17,2013 (2 weeks) at SBS State Technical Campus, Ferozepur. 8. Botnet Analysis, July 10-12, 2013 (3 days) at Infysec, Chennai. 9. Role of communication Motivation and Team Building in Enhancing the Performance of Teachers, May 25 ,2013 (1 day) SBS State Technical Campus, Ferozepur 10. New Computing & Emerging Technologies in ICT Aug 26 – 30, 2013 (1 week) TEQIP –II STC at SBS State Technical Campus, Ferozepur. 11. Soft Skills for Technical Teachers Sept 02 – 06, 2013 (1 week) TEQIP –II STC at SBS State Technical Campus, Ferozepur. 12. Recent Trends in Optical & Wireless Communication System Design, September 09 – 13, 2013 (1 week) TEQIP –II STC at SBS State Technical Campus, Ferozepur. 13. Effective Time & Stress Management, Sept 24 – 28, 2013 (1	

		week) at National Productive Council, Udaipur.
		14. Cloud Computing, Oct 28 to Nov 01, 2013 (1week) TEQIP –II STC at SBS State Technical Campus by NITTTR, Chandigarh
		15. Agile Software Development, February 3-7, 2014 (1 week) at Infosys, Chandigarh.
		16. Research Methodology, May 25 – June 5, 2015 (2 weeks) at SBS State Technical Campus, Ferozepur
		17. Effective Technical Writing Using LATEX, July 3-7, 2017 (1 week) at BBSBEC, Fatehgarh.
16	**Faculty Development Program organized in the institute.**	01
17	**Membership of Professional Bodies**	
18	**Main Extra-Curricular Activities organized:** Annexure-C	
19	**Main Curricular and Co-Curricular Activities Organized:** Annexure-D	

Annexure-A

LIST OF PUBLICATIONS

(A) International Referred Journals

1. Navpreet Kaur, Vishal Kumar Arora, Richa Sawhney; Energy based Self-Organizing Tree-based Routing Strategy for Wireless Sensor Networks' International Journal of Computer Application' , vol 180, num 25, pg no 42-47, 2018
2. Dolly Batra, Vishal Kumar Arora, Richa Sawhney; Tree-Based Energy Efficient Clustered Routing Strategy for Wireless Sensor Networks' International Journal of computer application' , vol 180, num 25, pg no 32-36, 2018
3. Shikha Chhabra, Vishal Kumar Arora; A REVIEW ON GENERAL SELF-ORGANIZED TREE-BASED ENERGY-BALANCE ROUTING PROTOCOL FOR WIRELESS SENSOR NETWORK' INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY' , vol 16, num 2, pg no 7591-7596, 2017
4. Gurpreet Kaur, Vishal Kumar Arora; ENHANCEMENT OF NETWORK LIFETIME USING IMPROVED MOD-LEACH IN WSN' International Journal of computer and distributed systems' , vol 1, num 4, pg no 118-123, 2016
5. Chetan Batra, Vishal Kumar Arora; Improved-RED Strategy a Performance Enhancer of MANET: A Review' International Journal of Computer Science and Network Security (IJCSNS)' , vol 16, num 7, pg no 154, 2016
6. 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' , vol 127, num 16, pg no 6590-6600, 2016
7. Kulvir Singh, Sunny Behal, Vishal Kumar Arora; An Improvement of Network Life Time using DLQAR Protocol in Wireless Sensor Network' International Journal of Computer Applications' , vol 119, num 21, pg no , 2015
8. Harpreet Singh, Vishal Kumar Arora; AN OPTIMIZED PARALLEL SCHEDULE FOR RIGID BASED JOB ALLOCATION STRUCTURE' International journal of advanced

technology in engineering and science' , vol 3, num 1, pg no 222-233, 2015

9. Kashish Monga, Vishal Kumar Arora; REFINEMENT OF WPA USING SHA3' INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY' , vol 4, num 12, pg no 492-497, 2015

10. Ashish Kumar, Vishal Kumar Arora; PERFORMANCE AND SECURITY EVALUATION BY USING SHA3 IN WEP' INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY' , vol 4, num 3, pg no 353-358, 2015

11. Gurpreet Kaur, Vishal Kumar Arora; A MODIFIED LEACH ALGORITHM USING HARD AND SOFT THRESHOLD IN WIRELESS SENSOR NETWORK: A REVIEW' INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY' , vol 14, num 10, pg no 6142-6146, 2015

12. Chetan Batra, Vishal Kumar Arora; RED Strategy for Improving Performance in MANET: A Review' Journal of Information Sciences and Computing Technologies' , vol 3, num 2, pg no 217-221, 2015

13. Shubhi Bansal, Vishal Kumar Arora Kumar; Distributed and Centralized Clustering Approaches: Leach vs. C-Leach' HCTL Open International Journal of Technology Innovations and Research (IJTIR)' , vol , num , pg no , 2015

14. Reva Sethi, Arora, V; Image De-noising By Decision Based Expanded Window Median Filter Using Multiple Scanning" ' , vol , num , pg no , 2014

15. Swati Puri, Vishal Kumar Arora; Routing Protocols in MANET: A Survey' International Journal of Computer Applications' , vol 96, num 13, pg no , 2014

16. Swati Puri, Vishal Kumar Arora; Performance Evaluation of HTTP and DB Traffic Application Using Proactive and Reactive Routing Protocols' IOSR Journal of Computer Engineering' , vol 16, num 5, pg no 60-64, 2014

17. Swati Puri, Vishal Kumar Arora; Performance of MANET: A Review' International Journal of Engineering Trends and Technology (IJETT)–Volume' , vol 9, num , pg no , 2014

18. Gurpreet Kaur, Vishal Kumar Arora; A Software Implementation Of RSA Algoritm Using 19 bit Prime Digit Number' International Journal of Scientific & Engineering Research' , vol 5, num 1, pg no 145-149, 2014

19. Daljeet Kaur, Arora, Mr Vishal; Five Level Threshold Based Stable Election Protocol for Super Wireless Sensor Networks' International Journal' , vol 4, num 12, pg no , 2014

20. Ashima, Vishal Kumar; Detection and Prevention of Wormhole Attack in MANET UsingDSR Protocol' IOSR Journals (IOSR Journal of Computer Engineering)' , vol 1, num 16, pg no 44-47, 2014

21. Gurpreet Kaur, Vishal Kumar Arora; An efficient implementation of RSA algorithm using FPGA and big prime digit' IJCCER' , vol 1, num 4, pg no 100-103, 2013

22. Deep Kaur, Vishal Kumar Arora; Research Agenda for Vertical Handover between WiMAX and Wi-Fi Networks' International Journal of Emerging Research in Management &Technology ISSN' , vol , num , pg no 2278-9359, 2013

23. Deep Kaur, Vishal Kumar Arora; Performance Analysis of Vertical Handover between WiMAX and Wi-Fi Network' International Journal of Advanced Research in Computer Science and Software Engineering' , vol 3, num 1, pg no 227-234, 2013

24. Surbhi, Vishal Kumar Arora; A Face Identification Technique for Human Facial Image' International Journal of Computer Science and Information Technologies (IJCSIT)' , vol 3, num , pg no 5391, 2012

25. Surbhi, Vishal Arora,'" The Facial expression detection from Human Facial Image by using neural network' , vol , num , pg no , 2012

26. P Dhillon, Arora, V; A compositional approach of reliable and efficient cloud service selection' International Journal of Advanced Research in Computer Science and Software Engineering' , vol , num , pg no 376-382, 2012

27. Vishal Kumar Arora; ROI segmentation for feature extraction from human facial images' arXiv preprint arXiv:1207.2922' , vol , num , pg no , 2012

(B) National Referred Journals   **Nil**

(C) Conferences

1. Sunny Behal, Krishan Kumar, Vishal Kumar Arora published a paper on "Classification of Flood Based DDOS Attacks" in International Conference on Wireless Networks & Embedded Systems (WECON-2008) pg no 521-524 18-19th Oct, 2008.
2. Vishal Kumar Arora, Parveen Kakkar, Krishan Kumar Saluja ,Malware detection in LAN with SNORT published a paper in International conference on communication & computing technologies pg 101-108, Feburary 2011.
3. Deep kaur, kirandeep kaur and Vishal arora, published a paper on "Qos in wireless LAN using IEEE802.11e:survey of Qos in MAC layer protocols" in ACCT 2012,7-8 january2012.
4. Divya Prabha; Vishal Kumar Arora Kumar; A Survey on LEACH and its Descendant Protocols in wireless Sensor Network' Int. Conf. Commun. Comput. Syst.' , pg no 162-167, 2014.
5. Divya Prabha, Vishal Kumar Arora; ENHANCEMENT OF NETWORK LIFETIME USING MULTIHOP CLUSTERING ROUTING IN WSNS' International Conference on Science, technology and management' , vol , num , pg no 814-824, 2015.
6. Kashish Monga, Vishal Kumar Arora; Kumar, Ashish; Analyzing the behavior of WPA with modification' Communication Networks (ICCN), 2015 International Conference on' , pg no 53-56, 2015
7. Ashish Kumar, Vishal Kumar Arora; Analyzing the performance and security by using SHA3 in WEP' Engineering and Technology (ICETECH), 2015 IEEE International Conference on' , pg no 43104, 2015.
8. Shubhi Bansal, Vishal Kumar Arora Kumar; ENERGY ENHANCEMENT USING AREA ZONING IN WIRELESS SENSOR NETWORKS' International Conference on Science, technology and management' , pg no 931-942, 2015.

(D) National Conferences

Vishal Kumar Arora, Sunny Behal, Charanjit Singh, published a paper on "Communication in WSN" in Proceedings of 2nd National Conference on Challenges & Opportunities in Information Technology (COIT-2008) pg no 202-206 March, 29 2008.

(E) Invited Talk: Nil

Annexure-B

Faculty Development Programme organized in the Institute

Sr No	Name of FDP	Department	From	To

| 1 | New Computing & Emerging Technologies | Computer Science and Engineering | 26-08-2013 | 30-08-2013 |

Annexure-C

Annexure-D

Main Curricular and Co-Curricular Activities Organized

- Organized AppsFluxus-2014 National Android Apps Championship Workshop held from 18th–19th March 2014 at SBSSTC, Ferozepur

- Coordinating Team member of FDP on "New Computing and Emerging Trends in ICT" held from 26-30 August 2013 at SBSSTC, Ferozepur.

- Coordinating Team member of 1st International Conference on Communication, Computing and Systems (ICCCS-2014) held from August 8-9, 2014.

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