RESUME



Name: Satinder Bal Gupta

Official Address: Associate Professor

Department of Computer Sci. and Engg. Indira Gandhi University, Meerpur

Rewari.

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Academic Qualification:

Cleared UGC-NET in 2005.

Exam Passed	Univ./Board
Ph.D (Computer Science)	Kurukshetra University, Kurukshetra
Topic: Mobile Crawler Architectures for	
Efficient Crawling of Public Indexable and	
Hidden Web	
Master in Computer Applications (MCA)	MDU, Rohtak
B.Tech (CSE)	PTU, Jalandhar (Pb.)
Diploma in Computer Programming and	S.L.I.E.T, Longowal.
Application	

Teaching Experience:

S.No.	Name of Institute	Period
1.	Vaish College of Engineering, Rohtak	08/10/1999 to 31/07/2016
2.	Indira Gandhi University, Meerpur, Rewari	01/08/2016 to till date

Ph.D Supervision:

S.No.	Candidate Name	Title	University	Status
1.	Mrs. Sunita Mehta	Metaheuristics for	Maharshi Dayanand	Awarded
		Multiprocessor	University ,Rohtak	
		Task Scheduling		
2.	Mr. Dheer Dhwaj	Efficient Technique	Maharshi Dayanand	Awarded
		for Detection and	University, Rohtak	
		Prevention of		
		Network Layer		
		Attack in Mobile		
		Adhoc Networks		
3.	Mrs. Prabha Rani	Enhanced Defense	Maharshi Dayanand	Awarded
		Mechanism For	University, Rohtak	
		Wireless Sensor		
		Networks		

Research Papers Published in Journals

S.N	Title with Name of Authors	Journal, Volume, Year, Page Numbers	ISSN
•	as appearing in the Publication		
1	Load Reducing Techniques on the Websites and Other Resources: A comparative Study and Future Research Direction Rajender Nath, Satinder Bal, Mahavir Singh	Journal of Advanced Research in Computer Engineering Vol: 1; No:1; Jan-Dec. 2007: pp. 39-49	ISSN: 0974-4320
2	Reduction in Bandwidth Usage for Crawling Using Mobile Crawlers Satinder Bal, Rajender Nath	International Journal of computer Science and Knowledge Engineering (IJCSKE) Vol: 1; No. 1 Jan-Dec. 2007-2008: pp. 51-61.	ISSN: 0975-5829
3	To Evaluate the Performance of Metasearch Engines: A Comparative Study Satinder Bal, Rajender Nath	Delving-Journal of Technology & Engineering Sciences Vol:1; No:1, Jan-June 2009. pp. 70-76	ISSN: 0975-5829
4	An approach to explore the hidden Web having Multiple Fields Form Using Mobile Crawlers Satinder Bal, Rajender Nath	International Journal of Information Technology and Knowledge Management Vol. 2; No. 1 January-June-2009 pp. 135-138,	ISSN 0973-4414
5	Filtering the Web Pages that are not modified at Remote Site without Downloading using Mobile Crawlers	Information Technology Journal Vol: 9; No. 2, 2010	eISSN:1812- 5646, pISSN:1812-

		pp. 376-380,	5638
	Satinder Bal, Rajender Nath	Pp. 370 300,	2030
6	A Comparative study of Traditional	Journal of Ultra Scientist of Physical Sciences	ISSN: 0970-9150
	Search Engines with The Metasearch	·	
	Engines	Vol: 21	
		No:(2(M)),	
	Satinder Bal, Rajender Nath	May-Aug. 2009,	
		pp.597-610	
7	A Novel Mobile Crawler System	The International Arab Journal of Information	ISSN 1683-3198
	Based On Filtering Off Non-	Technology	
	Modified Pages for Reducing Load		
	on the Network	Vol. 8(3),	
		July 2011,	
	Rajender Nath	pp. 272-279	
	Satinder Bal,		
8	A Comparative Study of the Results	IJMRS's International Journal of Engineering	ISSN: 2277-9698
	Produced by Search Engines	Sciences	
	Satinder Bal Gupta	Vol. 1(1),	
		Jan-Mar-2012, pp. 1-4.	
9	The Issues and Challenges with the	International Journal of Information Technology	ISSN: 2277-9825
	Web Crawlers	& Systems	
	Satinder Bal Gupta	Vol. 1(1),	
		Jan-June-2012,	
		pp. 1-10	
10	E-Governance in India and its Future	IJMRS's International Journal of Management	ISSN: 2277-968X
		Sciences	
	Satinder Bal Gupta	Vol. 1(1),	
		Jan-Mar-2012, pp. 14-19	1001 225 0025
11	Challenges in Designing a Hidden	International Journal of Information Technology	ISSN: 2277-9825
	Web Crawl	& Systems	
	Catin dan Dal Canta	V-1 2 No. 1 Jan Jan 2012	
	Satinder Bal Gupta	Vol. 2; No. 1, Jan-June-2013,	
10	A. C. and and C. C. L. and D. D. and L. L.	pp. 117-122	ICCNL 2277 0025
12	A Comparative Study of Proposed Mobile Crawler Architectures	International Journal of Information Technology	ISSN: 2277-9825
		& Systems	
	(PMCS and PMC) on the Basis of Page Change Behavior	Vol. 2; No. 2,	
	Fage Change Benavior	July-Dec 2013	
	Satinder Bal Gupta	pp. 20-23	
	Satinger Bar Gupta	pp. 20-23	
13	Comparison of Mobile Crawler	International Journal of Innovations in	ISSN: 2319-3344
13	Architectures (PMCS and PMC) on	Engineering and Management	10011. 2317-3344
	the basis of Load on the Network and	Engineering and Wanagement	
	Bandwidth Preserved	Vol. 2; No. 2,	
		pp. 35-40	
	Satinder Bal Gupta	July-Dec 2013	
14	Hybrid Gasa For Bi-Criteria	Computer Applications: An International Journal	ISSN: 2393-8455
1-1	Multiprocessor Task Scheduling	(CAIJ),	2551 2575 6155
	With Precedence Constraints	(2.110),	
		Vol.1(1), 2014	
	Sunita Dhingra, Satinder Bal Gupta	pp. 25-35	
	and Ranjit Biswas	rr · · ·	
15	Comparative analysis of heuristics	Adv. Appl. Sci. Res.,	ISSN: 0976-8610
	1 The state of the state		

	for multiprocessor task scheduling		
	problem with homogeneous	Vol 5(3):2014, pp. 280-285	
	processors		
	Sunita Dhingra, Satinder Bal Gupta		
	and Ranjit Biswas		
16	Genetic Algorithm Parameters Optimization for Bi-Criteria Multiprocessor Task Scheduling Using Design of Experiments	International Journal of Computer, Information, Systems and Control Engineering	9998710
	Sunita Dhingra, Satinder Bal Gupta and Ranjit Biswas	Vol:8 No:4, 2014, pp. 628-634	
17	Hybrid Genetic Algorithm For Bi- Criteria Multiprocessor Task Scheduling With	Advanced Computational Intelligence: An International Journal (ACII),	ISSN: 2454-3934
	Sunita Dhingra, Ashwani K. Dhingra, Satinder Bal Gupta, Ranjit Biswas	Vol: 3, No:4, 2016, pp. 19-29	
18	Improved Heuristic Algorithm Analysis for Task Scheduling in Flow Shop Environment	IUP Journal of Computer Sciences	ISSN: 0973-9904
	Dhingra Sunita; Dhingra, Ashwani K.; Gupta, Satinder Bal; Biswas, Ranjit	Vol. 9 Issue 4, pp. 21-, 2015	
19	Classification of Routing Protocols in Wireless Sensor Networks	International Journal of Applied Science and Technology Research	ISSN 2250- 2718(Print), 2250- 2726(Online),
	Prabha Rani, S.B. Gupta, Dheer Bhwaj, Yudhvir Singh	Vol. 6 (2), 2016, pp. 73-81	
20	Investigation of Network Layer Attacks and their Impact in MANETS	International Journal of Computer Science & Information Technology Research Excellence	ISSN 2250- 2734(Print), 2250- 2742(Online),
	Dheer Dhwaj Barak, Prabha Rani, S.B. Gupta	Vol. 6 (3), 2016 , pp. 46-55	
21	Analysis of Network Layer Attacks on Secure Routing Protocol in Mobile Ad-hoc Network	International Journal of Computer Science & Information Technology Research Excellence	ISSN 2250- 2734(Print), 2250- 2742(Online),
	Dheer Bhwaj , S.B. Gupta, Yudhvir Singh, Prabha Rani	Vol. 6 (3), 2016, pp. 31-37	
22	Performance Evaluation of Secure Routing Protocols in Mobile Adhoc Network	International Journal of Applied Science and Technology Research	ISSN 2250- 2718(Print), 2250- 2726(Online),
	Dheer Dhwaj , S.B. Gupta, Yudhvir Singh, Prabha Rani	Vol. 6 (3), 2016, pp. 1-9	

23	IDS approach based Defense Mechanism for Wireless Sensor Networks	International Journal of Computer Science & Information Technology Research Excellence Vol. 6 (6), 2016,	ISSN 2250- 2734(Print), 2250- 2742(Online)
	Prabha Rani, Satinder Bal Gupta	pp. 29-34	
24	Sybil Attacks In Wireless Sensor Networks	International Journal of Computer Science & Information Technology Research Excellence	ISSN 2250- 2734(Print), 2250- 2742(Online)
	S.B. Gupta, Prabha Rani,	Vol. 6 (6), 2016, pp. 35-38	
25	National Academic Depository: A Step Towards Digital India Vision	Indian J.Sci.Res.	ISSN: 0976-2876 (Print)
	Satinder Bal Gupta & Monika Gupta	Vol.13 (1): 2017, pp. 204-207	ISSN: 2250-0138 (Online)
26	Dynamic Coupling Based Performance Analysis of Object Oriented Systems	International Journal of Advanced Research in Computer Science	ISSN: 0976-5697
	Brij Mohan Goel, Satinder Bal Gupta	Vol. 8(5), May-June 2017 pp. 112-115	
27	Growing Impact of ICT on Indian Politics	Our Heritage Journal, Vol. 68, Issue 30, pp. 2258-2263 Feb. 2020,	ISSN 0474-9030. UGC CARE.
	Satinder Bal Gupta, Pink Prabha, Parul		
28	Study of Growing Popularity of Payment Apps in India	Test Engineering & Management, Vol. 82, pp. 16110-16119, Jan-Feb, 2020.	ISSN: 0193-4120, Scopus Indexed.
	Satinder Bal Gupta, Raj Kumar Yadav, Shivani		
29	Technology and E-Learning in Higher Education	International Journal of Advanced Science and Technology, Vol. 29, No.4, pp. 1320-1325, 2020.	ISSN: 2005-4238. Scopus Indexed.
30	Satinder Bal Gupta, Monika Gupta. Tools of ICT for Learning and Teaching Mathematics Madhu Aggarwal, Satinder Bal Gupta	Journal of Mechanics of Continua and Mathematical Sciences, Vol. 15, No. 4,pp. 1-12, April, 2020	ISSN (P):0973- 8975, ISSN (O):2454-7190. SCI Indexed,
31	Honeynet based Defensive mechanism Against DDoS Attacks AbhinavDahiya, Kamaldeep Joshi, Rainu Nandal, Rajkumar Yadav, Satinder Bal Gupta	INTERNATIONAL JOURNAL OF INFORMATION SECURITY SCIENCE, Vol.9, No.3, Pp.140-153, June 2020.	I SSN: 2147-0030, UGC CARE
32	Analysis of Popular Techniques Used in Educational Data Mining	International Journal of Next-Generation Computing, Vol. 11, No. 2, July 2020.	ISSN 0976-5034. SCI Indexed and UGC CARE
22	Satinder Bal Gupta, Raj Kumar Yadav, Shivani,	International Journal of Education Control	100N, 2222 7057
33	Different Phase Retrieval	International Journal of Future Generation	ISSN: 2233-7857,

	Algorithms: A Review	Communication and Networking, Vol. 13, No. 4,	SCI Indexed,
		pp. 1978-1989, Nov. 2020.	
	Himanshu, Satinder Bal Gupta, Raj		
	Kumar Yadav, Vikas Popli		
34	A Systematic Comparative Analysis	Applied Computer Systems	ISSN 2255-8691
	of Clustering Techniques		(online) ISSN
		Vol. 25, no. 2, pp. 87–104,	2255-8683 (print)
	Satinder Bal Gupta, Raj Kumar	December 2020,	(SCI Indexed)
	Yadav, Shivani		

RESEARCH PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

S.N	Title with Name of Authors as appearing in the Publication	Journal, Volume, Year, Page Numbers
1	E-Governance in India and its Future Rajiv Sharma, Satinder Bal, Richa, Divya Bhardvaj	National Conference on E-governance for Rural Development, SRM University, Modinagar 6-7, Oct. 2009, pp. 190-193
2	E-Governance in Municipalities and Urban Areas: Challenges and Roadmap to Success Rajiv Sharma, Satinder Bal, Richa, Divya Bhardvaj	National Conference on E-governance for Rural Development, SRM University, Modinagar 6-7, Oct. 2009, pp. 194-199
3	Comparative Analysis of First Order Optimization Algorithms Nitin Yadav, Satinder Bal Gupta, and Raj Kumar Yadav	Proceedings of 2 nd International Conference on Artificial Intelligence and Speech Technology (AIST- 2020), Indira Gandhi Delhi Technical University for Women, Delhi. Nov., 19-20, 2020. ISBN: 9781003150664 (eISBN) Published by Taylor & Francis Group, London and New York
4	Comparative Study of Various Stable and Unstable Sorting Algorithms Ravi Yadav, Rajkumar Yadav, and Satinder Bal Gupta	Proceedings of 2 nd International Conference on Artificial Intelligence and Speech Technology (AIST- 2020), Indira Gandhi Delhi Technical University for Women, Delhi. Nov., 19-20, 2020. ISBN: 9781003150664 (eISBN) Published by Taylor & Francis Group, London and New York

RESEARCH PAPERS PRESENTED IN CONFERENCES

S.	Title of the Paper presented	Title of the Conference / Seminar etc	Dates of the event
No.		and organizer	
1.	Mobile Agent Systems: A study	First National Conference On Emerging	Feb. 24-25, 2007.
	for present and Future	Trends in Comm. & Information	
		Technology, RIE&IT, Nawansher (Pb.),	

		India,	
2.	Searching The Web: The Meta Search Engine Way	Second National Conference On Innovative Developments in Engineering Applications (IDEA-2007), BGIET, Sangrur (Pb.), India,	March 2-3, 2007.
3.	Quality of Results in Search Engines	First National Conference on Total Quality Management, VCE, Rohtak (Hr.), India	10 March, 2007.
4.	The Essence of the Essence from the Web: The Metasearch Engine	First International Conference On Information Technology, (INTL-INFOTECH 2007), Haldia (WB), India,	19-21 March, 2007.
5.	Crawling the Hidden Web using Mobile Crawlers	3rd International conference on Advanced Computing & Communication Technologies (ICACCT2008), APIIT, Panipat (Haryana).	November 08-09, 2008.
6.	Filtering the Non-modified pages at remote site during crawling using Mobile Crawlers	IEEE International Advance Computing Conference (IACC'09), TIET, Patiala (Punjab).	March 08-09, 2009.
7.	A Framework to Explore the Hidden Web Having Single Field Form Using Mobile Crawlers.	National Conference (NCACNIT-09), GJU, Hisar (Haryana).	March 24-25, 2009
8.	A Novel Approach to Filter Non- Modified Pages at Remote Site without Downloading during Crawling	IEEE International Conference on Advances in Recent Technologies in Communication and Computing, 2009 (ARTCOM'09), Kottayam (Kerala).	27-28 OCT., 2009.
9.	National Academic depository: A step towards digital enablement of the Education records and the Digital India Vision	National seminar on Citizen centric governance and Administration: Issues and Challenges", MDU, Rohtak	Nov. 10-11, 2016
10.	Women Entrepreneurship in India : Problems and Prospects	International conference on Startup India Recipe for Inclusive Entrepreneurship and Innovation: Issues and Challenges,, IMSAR, MDU, Rohtak	March 2-3, 2017
11.	Issues and Challenges with Adhoc networks	International Conference on Current Trends for Sustainable Development in Engineering, Science and Management, Ganga Institute of Technology and Management, Kablana, Jhajjar.	May,12, 2018
12.	Issues and Challenges towards skill Development in India.	National seminar on Skill India-A great Vision for 21 st century Progressive India, F.C. College for Women, Hisar.	Oct. 20, 2018.
13.	Improvement in Road Safety Using Artificial Intelligence,	National Seminar on Road Safety in India: Better late than Never, Vaish College of Education, Rohtak.	Oct. 24, 2018.
14.	A hybrid approach Towards Information Hiding for Covert Communication	106 th Indian Science Congress, Lovely Professional University, Phagwara, Jalandhar.	January 3-7, 2019,
15.	Analysis of Impact of Faults on Object Oriented Software systems	106 th Indian Science Congress, Lovely Professional University, Phagwara,	January 3-7, 2019.

	Using Univariate Regression Analysis	Jalandhar.	
16.	Energy Preserving Remote Supervised Room	National Conference on Emerging Trends in Smart Computing, MDU, Rohtak.	March 27, 2019.
17.	Comparative Analysis of Various Urban VaNET Routing Protocols in Chandigarh City Scenario,	International Conference on Recent Trends in Computer Applications and Information Technology (RTCAIT'19), M.M. University, Mullana, Ambala.	April, 19-20, 2019.
18.	Issues and Challenges in Intellectual Property Rights,	International Conference on Prospects of IPR in Innovative Practices, MDU, Rohtak.	Aug. 29, 2019,
19.	E-commerce & its Future in India.	National Seminar on Emerging Issues and Challenges in Commerce and Management, SKGC, Kanwali, Rewari.	Jan 17, 2020.
20.	The security Issues with Social Networking Websites	National Seminar on Issues and Challenges in Security and Privacy in Social Networks, Jan SKGC, Kanwali, Rewari.	18, 2020.
21.	PowerPoint Presentation as a Tool to Encourage Active Learning	National Seminar on ICT in Education Sector: Implications and Challenges, Government College, Narnaul	Feb., 18, 2020.
22.	The Role of AI to Fight Covid-19: Future Research Directions	Ist Online International Conference on Rebuilding Bharat with Artificial Intelligence Interventions after Covid-19 Pandemic: Opportunity and Challenges, (A2ICP:2020), Gautam Buddha University, Greater Noida, UP.	May 02-03, 2020,
23.	Improving the Performance of the Students Using Artificial Neural Network,	Online International Conference on Advances in Computing, Communication and Control" (ICA3C-2020), School of Computer Science and Applications, IIMT University, Meerut, Uttar Pradesh, India.	June 16, 2020.
24.	Study of Various Artificial Intelligence Techniques in the Service of Human Being,	Online International Conference on New Normal - Corporate and Self-Management in Current Scenario, School of Management, Gautam Buddha University, Greater Noida.	June 17-18, 2020.
25.	Big Data Analytics Methods and Tools: A Review	5 th International Conference on Bioenergy Environment and sustainable Technologies (BEST2021), Arunai Engineering College, Tiruvannamalai, Tamilnadu	Jan., 29-30, 2021
26.	A Review of Soft Computing Techniques and Applications	International Conference on Recent Advances in Deep Learning (ICRADI- 2021), Deptt. of CSE, Shri Vishnu Engineering College for Women, Andhra Pradesh	Jan, 29-31, 2021

Books Published

S.N.	Book Published by International Publishers/Nationa I Level Publishers or State and Central Govt. Publications with ISSN/ISBN	Title with Name of Authors as appearing in the Publication	Book Title, Editor, Publisher year, Page Numbers	ISSN/ISBN No., if any
1	National Level Publisher	Discrete Mathematics and Structures Satinder Bal Gupta	Laxmi Publications (P) LTD, 2006, 3 rd Edition pages:358	ISBN: 978-81- 700-8918-6
2	International Edition, by National Level Publisher	Discrete Mathematics and Structures Satinder Bal Gupta	University Science Press, 2008, pages:358	ISBN: 978-81- 318-0352-3
3	National Level Publishers	Topics in Discrete Mathematics Satinder Bal Gupta, P.N.Gupta	Laxmi Publications (P) LTD, 2006, Pages: 317	ISBN:81-7008- 952-2
4	National Level Publishers	Introduction to Data Base Management System Satinder Bal Gupta, Aditya Mittal	University Science Press, 2009, Ist Edition pages:288	ISBN: 978-81- 318-0724-8
5	National Level Publishers	Discrete Mathematics and Structures Satinder Bal Gupta	University Science Press, 2014, 6 th Edition Pages: 600	ISBN: 978-81- 318-0452-0
6	National Level Publishers	Optical Communication Systems Satinder Bal Gupta, Ashish Goel	University Science Press, 2008, 2 nd Edition pages: 270	ISBN: 978-81- 318-0439-1
7	National Level Publishers	Discrete Structures Satinder Bal Gupta, C.P. Gandhi	University Science Press, 2009, Ist Edition Pages: 537	ISBN:978-81- 318-0580-0
8	National Level Publishers	Introduction to Data Base Management System Satinder Bal Gupta, Aditya Mittal	University Science Press, 2012, Revised Edition pages:288	ISBN: 978-93- 81159-31-6
9	National Level Publishers	Discrete Structures Satinder Bal Gupta, C.P. Gandhi	University Science Press, 2014, 4th Edition Pages: 724	ISBN:978-93- 80386-35-5
10	Local Publishers	Computer Fundamentals and Programming in C	Shree Mahavir Book Publishers 2009,	ISBN: 978-93- 80266-12-1

		Satinder Bal Gupta, Amit	Pages: 438	
		Singla		
11	Local Publishers	Basic Electronics	Shree Mahavir Book	ISBN: 978-93-
			Publishers 2009,	80266-13-8
		Manish Goel, Satinder Bal	D 206	
42	Land Dublishan	Gupta, Rajiv Sharma	Pages: 306 Shree Mahavir Book	ICDN: 070 02
12	Local Publishers	Digital and Analog Communication	Depot, New Delhi, 2009,	ISBN: 978-93- 80266-14-5
		Communication	Depot, New Denni, 2009,	80200-14-3
		Ashish Goel, Satinder Bal	Pages:312	
		Gupta, Rajiv Sharma		
13	Local Publishers	Computer Network and	Shree Mahavir Book	ISBN: 978-93-
		Internet	Publishers 2010,	80266-47-3
		Satinday Dal Cunta	Pages 222	
14	Local Publishers	Satinder Bal Gupta Data Base Management	Pages: 232 Shree Mahavir Book	ISBN: 978-93-
14	Local Fublishers	System	Publishers 2009-10,	80266-01-5
		System	r donishers 2005 10,	00200 01 3
		Satinder Bal Gupta	Pages: 223	
15	Local Publishers	Introduction to Information	Shree Mahavir Book	ISBN: 978-93-
		Technology	Publishers 2010,	80266-32-9
		Satinday Dal Courts	Da ===:222	
16	Local Publishers	Satinder Bal Gupta Software Engineering	Pages:232 Shree Mahavir Book	ISBN: 978-93-
10	Local I dollshers	Software Engineering	Publishers 2012-13,	81580-39-4
		Satinder Bal Gupta	pages:200	
17	Local Publishers	Computer Applications in	Shree Mahavir Book	ISBN: 978-93-
		Management	Publishers, 2015-16	84285-04-3
	T 15 11 1	Satinder Bal Gupta	Pages:232	1GDM 070 02
18	Local Publishers	Artificial Intelligence	Shree Mahavir Book Publishers,	ISBN: 978-93- 84285-11-1
		Satinder Bal Gupta	2015-16	04203-11-1
		Samuel San Supia	Pages: 222	
19	Local Publishers	Web Design	Shree Mahavir Book	ISBN: 978-93-
			Publishers,	81580-93-6
		Satinder Bal Gupta and Brij	2015	
20	Local Publishers	Mohan Goel	Pages: 213 Shree Mahavir Book	ICDN: 070 02
20	Local Publishers	Introductory concepts of Information Technology	Publishers, 2015-16	ISBN: 978-93- 84285-31-9
		Information Technology	1 donsincrs, 2013-10	04203-31-7
		Satinder Bal Gupta	Pages:304	
21	Local Publishers	Basics of Information	Shree Mahavir Book	ISBN: 978-93-
		Technology	Publishers,	84285-62-3
			2014	
22	Local Publishers	Satinder Bal Gupta	Pages: 262 Shree Mahavir Book	ICDN: 079 02
22	Local Publishers	Statistical Analysis with MS- Excel	Publishers,	ISBN: 978-93- 84285-78-4
		DACCI	2016	0720 <i>3-1</i> 0- 1
		Satinder Bal Gupta and	Pages: 260	
		Monika Gupta		
23	Local Publishers	Introduction to Computer	Shree Mahavir Book	ISBN: 978-93-
			Publishers, 2015	84285-48-7
-	T 1 D . 1 P . 1	Satinder Bal Gupta	Pages: 346	ICDN: 070 02
24	Local Publishers	IT and E-Commerce	Shree Mahavir Book	ISBN: 978-93-

			Publishers, 2015-16	84285-09-8
		Satinder Bal Gupta	Pages:203	
25	International Edition	Discrete Mathematics and	Infinity Press, 2016,	ISBN: 978-93-
		Structures		859-3547-3
			pages:620	
		Satinder Bal Gupta		
26	International Edition	Optical Communication	Infinity Press, 2016,	ISBN: 978-93-
		Systems		859-3544-2
			pages: 276	
		Satinder Bal Gupta, Ashish		
		Goel		
27	International Edition	Topics in Discrete	Infinity Press, 2016,	ISBN: 978-93-
		Mathematics		859-3575-6
			Pages: 332	
		Satinder Bal Gupta, P.N.Gupta		
28	National Level	A text Book of Engineering	University Science	ISBN: 978-93-
	Publishers	Mathematics	Press, New Delhi	5274-554-8
		Manish Goyal, Satinder Bal		
		Gupta		

Short Term Training Courses/Faculty Development Programmes Attended

Program	Duration	Organised by	
Web Page Design	One Week	NITTR, Chandigarh	
Operating System	One Week	NITTR, Chandigarh	
ORACLE	One Week	NITTR, Chandigarh	
Electronics Service	One Week	NITTR, Chandigarh	
Mission 10X	One Week	Wipro & ISTE	
Induction Training	One Week	NITTR, Chandigarh	
Programme through			
ICT			
Cyber Crime and	One Week	NITTR, Chandigarh	
Forensic Tools			
through ICT			