


1	Name	SONIKA JINDAL	
2	Designation	Assistant Professor	
3	Date of Birth	06/09/1977	
4	Education Qualification	Ph.D. in CSE PURSUING M.Tech in CSE B.Tech in CSE	
		Email:	
		sonikamanoj@gmail.com	sonikajindal@sbsstc.ac.in
5	Work Experience	Teaching and Administrative	
	Teaching		
	From 19 th Oct 2001 – till date, Assistant Professor , Deptt.of Computer Science & Engineering, Shaheed Bhagat Singh State Technical Campus, Ferozepur.		18 Years
	3 rd August 1998 - 19 th October, 2001 Lecturer, Deptt. of Computer Science & Engineering, Adesh Institute of Engg & Technology (Adesh Group), Faridkot.		3 years 3 months
	Administrative Responsibilities:		
	Aug 2009 – October 2017, Academic Incharge at Department of CSE, Shaheed Bhagat Singh State Technical Campus, Ferozepur		8 years
	Sept 2016 – Dec 2017, Chairperson of Women Grievance Cell/Anti Sexual Harassment/Saksham Committee at Shaheed Bhagat Singh State Technical, Ferozepur		1 year
	Jan 2017, Member of Admission Committee for 2017-18 admissions at Shaheed Bhagat Singh State Technical Campus, Ferozepur.		
	March 2017, Member of UMC Decision Review Committee , at Shaheed Bhagat Singh State Technical Campus, Ferozepur.		
	Head Examiner for IKG PTU Evaluation Centre and SBSSTC Ferozepur Evaluation Centre, Dec 2016 examination		
	Feb 2016 till date, Editor of Hindi Section for Manthan , Annual College Magazine of SBSSTC, Ferozepur		
	Course Coordinator , Artificial Neural Networks, M.Tech. CSE, MRSPTU, Bathinda.		
	May 2015 – till date, NBA Committee Member of CSE Deptt, SBSSTC, Ferozepur		

	June 2014 – till date, Member of DQAC , CSE Deptt, SBSSTC,FZR	
	May 2016 – till date, Incharge , Computation Lab, CSE Deptt, SBSSTC, FZR	
	Research	From: 2011 to till date
	Others:	
6	Area of Specializations	Digital Image Processing, Nature Inspired Optimization
7	Subjects Teaching at	(a) Graduate Level
	1 Computer Architecture & Organisation 2 Expert Systems 3 System Programming 4 Computer Peripherals & Interfaces 5 Software Engineering 6 Operating Systems	
		(b) Post Graduate Level
	1 Advanced Software Engineering 2 Soft Computing 3 Digital Image Processing 4 Software Engineering & methodology 5 Neural Networks & Fuzzy Logic	
8	Total Number of Research Publications	74 (Annexure-A) Communicated – 0
9	Number of Students Guided	M.Tech 30
		PhD Nil
10	Academic Achievements and Awards	Appreciation Certificate from Director, SBSSTC, Ferozpur for Coordinating one National Conference on “National Conference NCCCES 2016 held in November 2016 at SBSSTC, Ferozpur
		Co-Coordinator of FDP on “Cloud Computing” organized in collaboration with NITTTR, Chandigarh under TEQIP at SBSSTC, Ferozpur
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. Material Degradation And Their Protection, 22 – 26 Dec, 2008 (01 week) AICTE sponsored STC held at SBS College of

		<p>Engg & Technology, Ferozepur</p> <ol style="list-style-type: none"> 2. Applications Of High Resolution Satellite Images, June 22 – 26, 2009 (01 week) QIP Centre, IIT Roorkee 3. Supply Chain Management: Issues And Challenges, July 13 – 17, 2009 (01 week) AICTE & MHRD sponsored STC held at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar. 4. Patent Awareness Workshop, 11th Dec, 2009 Yadindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo. 5. Strategy for Implementation of TQM & ISO, 31st May 11th June 2010 (2 weeks) AICTE sponsored STTP held at DAV Institute of engg & Technology, Jalandhar 6. Embedded Systems and VLSI Design in Robotics, July 12-23, 2010 (2 weeks) AICTE sponsored FDP held at DAV Institute of Engg & Technology, Jalandhar 7. Intelligent Computation Techniques, July 4 – 15, 2011 (2 weeks) AICTE sponsored SDP held at SBS College of Engg & technology, FZR 8. Evolutionary Computing Techniques, May 14 – 18, 2012 (1 week) PTU Sponsored FDP at Adesh Institute of Engg & Technology, Faridkot 9. Multi-Criteria Optimization Tools in Research, May 21- June 1, 2012 (2 weeks) AICTE sponsored SDP at SBS State Technical Campus, Ferozepur. 10. Applied Soft Computing, Nov 26 – 30, 2012 (1 week) TEQIP –II STC at SBS State Technical Campus, Ferozepur. 11. MATLAB Fundamentals and Neural Network & Fuzzy Logic Toolboxes, Dec 3 – 14, 2012 (2 weeks) TEQIP–II FDP at UIET, Sec 25, Chandigarh. 12. Engineering Materials, Dec 17 – 21, 2012 TEQIP –II STC at SBS State Technical Campus, Ferozepur. 13. Nature Inspired Computational Intelligence, May 6- 17,2013 (2 weeks) SBS State Technical Campus, Ferozepur 14. Role of communication Motivation and Team Building in Enhancing the Performance of Teachers, May 25 ,2013 (1 day) SBS State Technical Campus, Ferozepur 15. Human Factors Engineering, July 1 – 5, 2013 TEQIP sponsored STC at NIT Jalandhar 16. New Computing & Emerging Technologies in ICT, Aug 26 – 30, 2013 TEQIP –II STC at SBS State Technical Campus
--	--	---

		<p>17. Soft Skills for Technical Teachers, Sept 02 – 06, 2013 TEQIP –II STC at SBS State Technical Campus</p> <p>18. Managerial Skills, Sept 09 – 13, 2013 TEQIP –II STC at SBS State Technical Campus by NITTTR CHANDIGARH</p> <p>19. Digital Image Video & Medical Image Processing, Sept 23 – 27, 2013 TEQIP –II STC at SBS State Technical Campus</p> <p>20. Photonics, Oct 21 – 25, 2013 TEQIP –II STC at SBS State Technical Campus.</p> <p>21. Cloud Computing, Oct 28 to Nov 01, 2013 TEQIP –II STC at SBS State Technical Campus by NITTTR, Chandigarh</p> <p>22. Workshop on Multilingual Technologies, Nov 11 – 17, 2013 Punjabi University, Patiala</p> <p>23. Analytical Techniques for Detection of Environmental Pollutants, Dec 16 -27, 2013 TEQIP –II STC at SBS State Technical Campus, Ferozepur</p> <p>24. Role of Computer in Robotics and Mechatronics, June 9 – 13, 2014 ISTE-PTU Sponsored FDP at BMSCE, Muktsar</p> <p>25. Image Processing and its Applications, June 8 – 12, 2015 (1 week) Lala Lajpat Rai Institute of Engg & Technology, Moga</p> <p>26. Research Techniques May 25 – June 5, 2015 (2 weeks) SBS State Technical Campus, Ferozepur</p> <p>27. Modelling & Simulation of Engg. Systems, 9th – 15th Jan, 2017 IKG PTU, Jalandhar</p> <p>28. Classroom Teaching and Soft Skill Development, 22nd – 26th May 2017, MIMIT Malout organised by NITTTR Chandigarh.</p> <p>29. Optimization using MATLAB, 17th – 21st July 2017 at SBSSTC Ferozepur organised by NITTTR Chandigarh</p> <p>30. Energy, Environment and Sustainable Developmnt, 24th – 28th July 2017 at SBSSTC Ferozepur organised by NITTTR Chandigarh</p>
16	Faculty Development Program organized in the institute.	01
17	Membership of Professional Bodies	<p>ISTE Life member LM-34568</p> <p>IAENG –International Association of Engineers, Membership No. 179534</p>
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

S. No	Journal Research Papers
1	Navdeep Singh and Sonika Jindal. A Hybrid Technique for Assessment of Heart Sickness Forecast. <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> 180(40):30-34, May 2018.
2	GaganDeep Singh and Sonika Jindal, "A Novel Classification Approach Capable Indoor Scene Picture Identification with Hybrid Feature Selection Algorithm", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> 180(40): Pages 35-38, May 2018.
3	Manpreet Singh, Sonika Jindal. "A hybrid model for CBIR classification using texture feature selection." <i>INTERNATIONAL JOURNAL OF ADVANCE RESEARCH, IDEAS AND INNOVATIONS IN TECHNOLOGY</i> , Pages 2423 – 2426, April 2018
4	Gagandeep Singh, Sonika Jindal. "A multiple object analysis for indoor scene recognition with scene adaptive classification." <i>INTERNATIONAL JOURNAL OF ADVANCE RESEARCH, IDEAS AND INNOVATIONS IN TECHNOLOGY</i> , ,pages 1053 - 1055 March 2018
5	Silky and Sonika Jindal. "Enhanced Fingernail Recognition based on GLCM, SIFT and NN", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> 180(26): Pages18-22, March 2018
6	Poonam Rani and Sonika Jindal., "Features Extraction using Local Binary Patterns and Steerable Pyramids for Efficient Image Retrieval", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> 179(19):pages 25-30, February 2018.
7	Singh Navdeep, Jindal Sonika, : "Heart Disease Prediction System using Hybrid Technique of Data Mining Algorithms", <i>INTERNATIONAL JOURNAL OF ADVANCE RESEARCH, IDEAS AND INNOVATIONS IN TECHNOLOGY</i> , Vol 4, Issue 2, Pages 982 – 987, April 2018
8	Singh Gagandeep, Jindal Sonika, "Adaptive M-SVM classification model qualified indoor scene images with hybrid feature selection approach", <i>INTERNATIONAL JOURNAL OF ADVANCE RESEARCH, IDEAS AND INNOVATIONS IN TECHNOLOGY</i> , Vol 4, Issue 2, Pages 1056-1060, March 2018
9	Singh Navdeep, Jindal Sonika, "Heart disease prediction using classification and feature selection techniques", <i>INTERNATIONAL JOURNAL OF ADVANCE RESEARCH, IDEAS AND INNOVATIONS IN TECHNOLOGY</i> , Vol 4, Issue 2, Pages 1124 –1127, April 2018
10	Seth, Nitika; Jindal, Sonika; "A review on content based image retrieval", <i>INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY</i> , Vol. 15, No. 14, Pages 7498-7503, January 2017
11	Kaur, Rupinder; Jindal, Sonika; "A robust automatic vascular and non-vascular based retina

	recognition system using pso", <i>INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE</i> , Vol. 8, No. 5, Pages 553-559, June 2017
12	Vinayak, Vandana; Jindal, Sonika; " cbir system using color moment and color auto-correlogram with block truncation coding", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 161, No. 9, Pages 1-7, March 2017
13	Jindal Sonika, Palvi "Multimodel local terenary patterns for content based image retrieval", <i>INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE</i> , Vol. 8, No. 8, Pages 709-713, October 2017
14	Jindal Sonika, Nangia Parul "Content based image retrieval system using shape texture and color features", <i>INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE</i> , Vol. 8, No. 8, Pages 661-665, October 2017
15	Jindal Sonika, Saurabh "Face recognition under variation in illumination using hybrid of pca and dcp", <i>INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE</i> , Vol. 8, No. 8, Pages 727-731, October 2017
16	Kaur, Gurpreet; Jindal, Sonika; "A review on image segmentation using gpu", <i>INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY</i> , Vol. 15, No. 10, Pages 7160-7163, October 2016
17	Charaya, Sahil; Jindal, Sonika; Kaur, Bhavneet; "Content based image retrieval using selective region matching with region of interest and svm", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 137, No. 3, Pages 28-33, March 2016
18	Rani, Shilpa; Jindal, Sonika; Kaur, Bhavneet " a brief review on image restoration techniques ", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 150, No. 12, Pages 30-33, September 2016
19	Kaur, Bhavneet; Jindal, Sonika; "Accelerating cbir system using graphics processing unit in open cv environment", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 125, No. 8, Pages 25-31, September 2015
20	Kathpal, Anjali; Jindal, Sonika; " dual image watermarking algorithm with svd-dwt and edge detection on different layers of colored image", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 126, No. 5, Pages 6-9, September 2015
21	Kaur, Pawandeep; Jindal, Sonika; "A new approach of svd-dwt video watermarking embedding algorithm", <i>INTERNATIONAL JOURNAL OF RECENT ADVANCES IN ENGINEERING & TECHNOLOGY</i> , Vol. 2, No. 5, Pages 36-40, 2014
22	Ramandeep Kaur, Sonika Jindal; "Digital image watermarking technique using high frequency band based on discrete wavelet transform and singular value decomposition", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 89, No. 19, Pages 1-3, February 2014
23	Sanjoly, Sonika /jindal; "Enhanced content based image retrieval approach using pollination based optimization", <i>INTERNATIONAL JOURNAL OF ADVANCED TECHNOLOGY & ENGINEERING</i>

	<i>RESEARCH (IJATER)</i> , Vol. 4, No. 2, Pages 91-94, February 2014
24	Sanjoly, Sonika /jindal; "Review on content based image retrieval systems using clustering techniques", <i>CIIT JOURNAL OF DIGITAL IMAGE PROCESSING</i> , Vol. 5, No. 8, Pages 371-376, August 2013
25	Kaur, Sarabjeet; Jindal, Sonika; "A review on colour image steganography", <i>DIGITAL IMAGE PROCESSING</i> , Vol. 5, No. 3, Pages 108-111, March 2013
26	Kaur, Sarabjeet; Jindal, Sonika; "Image steganography using hybrid edge detection and first component alteration technique", <i>INTERNATIONAL JOURNAL OF HYBRID INFORMATION TECHNOLOGY</i> , Vol. 6, No. 5, Pages 59-66, July 2013
27	Khurana, Gauri; Jindal, Sonika; "A model to compare the degree of refactoring opportunities of three projects using a machine algorithm", <i>ADVANCED COMPUTING: AN INTERNATIONAL JOURNAL</i> , Vol. 4, No. 3, Pages 17-28, May 2013
28	Kaur, Manpreet; Jindal, Sonika; Behal, Sunny; "A study of digital image watermarking", <i>JOURNAL OF RESEARCH IN ENGINEERING AND APPLIED SCIENCES</i> , Vol. 2, No. 2, Pages 126-136, 2012
29	Nivedita, Sonika Jindal; "Performance analysis of svd and spiht algorithm for image compression application", <i>INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE AND SOFTWARE ENGINEERING.</i> , Vol. 2, No. 2, Pages 23-37, 2012
30	Jindal, Sonika; Jindal Richa " application centric and algorithm centric classification of image segmentation algorithms", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 0, No. 6, Pages 20-25, April 2012
31	Mahajan, Ritika; Chopra, Sarvesh; Jindal, Sonika; "Study of probabilistic approach to solve 0/1 knapsack problem", <i>INTERNATIONAL JOURNAL OF RESEARCH IN IT & MANAGEMENT</i> , Vol. 2, No. 2, Pages 209-215, 2012
32	Khurana, Gauri; Jindal, Sonika; "Refactorability analysis using linear regression", <i>INTERNATIONAL JOURNAL OF RESEARCH IN IT & MANAGEMENT & ENGINEERING</i> , Vol. 1, No. 5, Pages 23-37, 2012
33	Nivedita, Nivedita; Singh, Pardeep; Jindal, Sonika; "Comparative analysis of spiht and fractal coding image compression techniques", <i>CIIT INTERNATIONAL JOURNAL OF DIGITAL IMAGE PROCESSING</i> , Vol. 4, No. 5, Pages 240-243, 2012
34	Sonika Jindal, Richa Jindal; "Comparing different soft computing techniques for classification of satellite images", <i>INTERNATIONAL CONFERENCE ON NEXT GENERATION COMMUNICATION AND COMPUTING SYSTEMS (ICNGC2S-11)</i> , Vol. 3, No. 1, Pages 52-56, 2012
35	Kaur, Amninder; Jindal, Sonika; Jindal, Richa; "License plate recognition using support vector machine", <i>INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE AND SOFTWARE ENGINEERING</i> , Vol. 2, No. 7, Pages 403-406, 2012

36	Nivedita, Pardeep Singh; Jindal, Sonika; "A comparative study of dct and dwt-spiht", <i>IJCEM INTERNATIONAL JOURNAL OF COMPUTATIONAL ENGINEERING AND MANAGEMENT</i> , Vol. 15, No. 2, Pages 26-32, 2012
37	Jindal, Richa; Jindal, Sonika; Kaur, Navdeep; "Analyses of higher order metrics for spiht based image compression", <i>INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS</i> , Vol. 1, No. 20, Pages 56-59, 2010

(B) National Referred Journals

Nil

(C) Conferences

S.No.	Conference Papers
1	Garg, Swati; Jindal, Sonika; "A review on various levels of nlp", <i>INTERNATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING, SCIENCE, HUMANITIES AND MANAGEMENT</i> , Pages 434-441, DSW, Ferozepur, India, March 2017
2	Kaur, Sunpreet; Jindal Sonika "Content based image retrieval scheme using color, texture and shape features along edge detection", <i>5TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY (ICAET-2017)</i> , Pages 271-276, BGIET, Sangrur, India, March 2017
3	Kaur, Rajwinder; Jindal, Sonika "An optimized pso based technique for tsp", <i>5TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY (ICAET-2017)</i> , Pages 294-298, BGIET, Sangrur, India, March 2017
4	Kaur Sukhjinder Pal; Jindal Sonika "Improved image steganography using random password generation for secure transmission of data", <i>5TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY (ICAET-2017)</i> , Pages 428-433, BGIET, Sangrur, India, March 2017
5	Nangia, Parul; Jindal, Sonika; "A review on various approaches of cbir using color and shape based features", <i>INTERNATIONAL CONFERENCE ON ACADEMIC RESEARCH IN ENGINEERING AND MANAGEMENT</i> , Pages 121-126, IETE, LODI ROAD, Delhi, India, April 2017
6	Nini; Jindal Sonika "Image segmentation using improved jseg with fuzzy weighted moving k-means", <i>5TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY (ICAET-2017)</i> , Pages 304-308, BGIET, Sangrur, India, March 2017
7	Kaur, Navneet; Jindal, Sonika; Kaur, Bhavneet; "Relevance feedback based cbir system using svm and bayes classifier", <i>COMPUTATIONAL INTELLIGENCE & COMMUNICATION TECHNOLOGY (CICT), IEEE SECOND INTERNATIONAL CONFERENCE ON</i> , Pages 214-218, Gaziabad, India, February 2016
8	Thind, Divjot Kaur; Jindal, Sonika; "A semi blind dwt-svd video watermarking", <i>PROCEDIA COMPUTER SCIENCE, ELSEVIER</i> , Pages 1661-1667, , , December 2015
9	Bhavneet Kaur, Sonika Jindal; "Content based image retrieval with graphical processing unit", <i>FIFTH INTERNATIONAL CONFERENCE ON RECENT TRENDS IN INFORMATION</i> ,

	<i>TELECOMMUNICATION AND COMPUTING</i> , Pages 364 - 373, , , 2014
10	Pawandeep Kaur, Sonika Jindal; "A review:analysis of various types of watermarking techniques", <i>INTERNATIONAL MULTI TRACK CONFERENCE ON SCIENCES, ENGINEERING AND TECHNICAL INNOVATIONS</i> , Pages 450-455, , , 2014
11	Bhavneet Kaur, Sonika Jindal, Richa Jindal; "Extracting low level features in content based image retrieval systems using opencv environment", <i>INTERNATIONAL MULTI TRACK CONFERENCE ON SCIENCES, ENGINEERING AND TECHNICAL INNOVATIONS</i> , Pages 479-483, , , 2014
12	Amrinder Singh, Sonika Jindal; "A systematic way of image segmentation based on the bacteria foraging optimization algorithm: implementation and analysis", <i>INTERNATIONAL MULTI TRACK CONFERENCE ON SCIENCES, ENGINEERING AND TECHNICAL INNOVATIONS</i> , Pages 343-347, , , 2014
13	Jagmeet Singh, Sonika Jindal; "A systematic way of hybrid model design and comparative analysis of ebgm and eigen values for biometric face recognition using neural network", <i>INTERNATIONAL MULTI TRACK CONFERENCE ON SCIENCES, ENGINEERING AND TECHNICAL INNOVATIONS</i> , Pages 491-495, , , 2014
14	Divjot Kaur Thind, Sonika Jindal; "Review of watermarking and its techniques", <i>ICRTEDC</i> , Pages 83-90, , , 2014
15	Kaur, Bhavneet; Jindal, Sonika; "An implementation of feature extraction over medical images on open cv environment", <i>DEVICES, CIRCUITS AND COMMUNICATIONS (ICDCCOM), IEEE</i> , Pages , , , June 2014
16	Pawandeep Kaur, Sonika Jindal; "A new robust and secure approach to svd-3 level dwt video watermarking", <i>INTERNATIONAL CONFERENCE ON COMMUNICATION, CONTROL AND SYSTEMS</i> , Pages 110-114, , , 2014
17	Divjot Kaur, Sonika Jindal; "A semi blind dwt-svd video watermarking under attacks", <i>INTERNATIONAL CONFERENCE ON COMMUNICATIONS, COMPUTING AND SYSTEMS</i> , Pages 224-227, , , 2014
18	Pawandeep Kaur, Sonika Jindal; "A new robust and secure approach to svd-3 level dwt video watermarking", <i>INTERNATIONAL CONFERENCE ON COMMUNICATIONS, COMPUTING AND SYSTEMS</i> , Pages 110-114, , , 2014
19	Kaur, Rupinderjit; Jindal, Shikha; "Robust digital image watermarking in high frequency band using median filter function based on dwt-svd", <i>ADVANCED COMPUTING & COMMUNICATION TECHNOLOGIES (ACCT), IEEE</i> , Pages 47-52, , , 2014
20	Nitika Sharma, Sonika Jindal; "A review on global features based cbir systems", <i>INTERNATIONAL INTERNATIONAL CONFERENCE ON INFORMATION AND MATHEMATICAL SCIENCES CONFERENCE ON ADVANCES IN COMPUTING AND COMMUNICATIONS</i> , Pages 66-69, , , 2013
21	Kaur, Rupinderjit; Jindal, Shikha; "Semi-blind image watermarking using high frequency band based on dwt-svd", <i>EMERGING TRENDS IN ENGINEERING AND TECHNOLOGY (ICETET), IEEE</i> , Pages 19-24, , , December 2013
22	Kaur, Sarabjeet; Jindal, Sonika; "A review on colour image steganography", <i>DIGITAL IMAGE</i>

	<i>PROCESSING</i> , Pages 108-111, , , 2013
23	Jindal, Shikha; Khurana, Garima; "The statistical analysis of source-code to determine the refactoring opportunities factor (rof) using a machine learning algorithm", <i>COMMUNICATION AND COMPUTING (ARTCOM 2013), FIFTH INTERNATIONAL CONFERENCE ON ADVANCES IN RECENT TECHNOLOGIES</i> , Pages 396-403, , , 2013
24	Gauri Khurana, Sonika Jindal, Richa Jindal; "Regression analysis for evaluating quality attributes that affect refactoring of source code", <i>INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTING AND COMMUNICATIONS</i> , Pages 280-285, , , 2012
25	Mahajan, Ritika; Chopra, Sarvesh; Jindal, Sonika; "Comparison of deterministic and probabilistic approaches for solving 0/1 knapsack problem ", <i>INTERNATIONAL CONFERENCE ON RECENT ADVANCES AND FUTURE TRENDS IN INFORMATION TECHNOLOGY</i> , Pages 629-637, , , 2012
26	Mahajan, Ritika; Chopra, Sarvesh; "Analysis of 0/1 knapsack problem using deterministic and probabilistic techniques", <i>ADVANCED COMPUTING & COMMUNICATION TECHNOLOGIES (ACCT), IEEE</i> , Pages 150-155, , , December 2012
27	Sonika Jindal, Richa Jindal; "Comparing different soft computing techniques for classification of satellite images", <i>INTERNATIONAL CONFERENCE ON NEXT GENERATION COMMUNICATION AND COMPUTING SYSTEMS</i> , Pages 52-56, , , 2012
28	Jindal, Sonika; Jindal, Richa; "Application centric and algorithm centric classification of image segmentation algorithms", <i>INTERNATIONAL CONFERENCE ON RECENT ADVANCES AND FUTURE TRENDS IN INFORMATION TECHNOLOGY</i> , Pages 20-25, , , 2012
29	Nivedita, Nivedita; Singh, Pardeep; Jindal, Sonika; "Comparative analysis of spiht and fractal coding image compression techniques", <i>DIGITAL IMAGE PROCESSING</i> , Pages 240-243, , , 2012

(D) National Conferences

1	Parul Nangia, Palvi, Sonika Jindal, "Issues In Content Based Image Retrieval: A Review", <i>NATIONAL CONFERENCE ON COMPUTING, COMMUNICATION & ELECTRICAL SYSTEMS (NCCCES-2017)</i> , Pages 18-22 at SBS State Technical Campus, Ferozepur, December 2017
2	Swati Garg, neha Sharma, Sonika Jindal, "A Review On Community Question Answer Retrieval", <i>NATIONAL CONFERENCE ON COMPUTING, COMMUNICATION & ELECTRICAL SYSTEMS (NCCCES-2017)</i> , pages 30 – 34, at SBS State Technical Campus, Ferozepur, December 2017
3	Saurabh Sharma, Sonika Jindal, "Evolution Of Various Hybrid Approaches Of Facial Recognition For Low Resolution Images", <i>NATIONAL CONFERENCE ON COMPUTING, COMMUNICATION & ELECTRICAL SYSTEMS (NCCCES-2017)</i> , pages 35 – 38 at SBS State Technical Campus, Ferozepur, December 2017
4	Swati Garg, Sonika Jindal, Bhavneet Kaur, "Review on Web Information Extraction Tools Based on Natural Language Processing", <i>NATIONAL CONFERENCE ON COMPUTING, COMMUNICATION & ELECTRICAL SYSTEMS 2016 (NCCCES-2016)</i> , Pages 32-35 at SBS State Technical Campus, Ferozepur, November 2016
5	Neha Sharma, Sonika Jindal, Bhavneet Kaur, "Analysis Development of Natural language Processing

	in Different Application Areas”, <i>NATIONAL CONFERENCE ON COMPUTING, COMMUNICATION & ELECTRICAL SYSTEMS 2016 (NCCCES-2016)</i> , pages 36 - 39 at SBS State Technical Campus, Ferozpur, November 2016
6	Sonika Jindal,richa Jindal, Gurpreet Josan; "Image compression using discrete cosine transform", <i>NATIONAL CONFERENCE ON EMERGING TRENDS & APPLICATIONS IN COMPUTER ENGINEERING</i> , Pages 272-275, , , 2007
7	Sonika Jindal, Manoj Mittal, Richa Jindal; "Unseen aspects of nanotechnology", <i>NATIONAL CONFERENCE ON RECENT DEVELOPMENTS & FUTURISTIC TRENDS IN MECHANICAL ENGINEERING</i> , Pages , , , 2007
8.	Sonika Jindal, Richa Jindal, Rajni; "Evolution of networked storage", <i>NATIONAL CONFERENCE ON CHALLENGES AND OPPORTUNITIES IN INFORMATION TECHNOLOGY</i> , Pages 122-126, , , 2007

(E) Invited Talk: Nil

ANNEXURE-B

Faculty Development Programme organized in the Institute

Sr No	Name of FDP	Department	From	To
1	Cloud Computing	Computer Science and Engineering	28-10-2013	01-11-2013

ANNEXURE-C

Main Extra-Curricular Activities organized: NIL

ANNEXURE-D

Main Curricular and Co-Curricular Activities Organized

S.No.	Role	Title of program	Duration	Sponsored by	Level
1	Coordinator of Panel Discussion through ICT	Gender Harassment in Work Place	2 hours on 10-3-2017	NITTTR Chandigarh	National
2.	Conference Cordinator	NCCCES 2016	2 days	TEQIP	National
3.	Member Editorial Board	NCCCES 2016	2 days	TEQIP	National
4.	Cordinator, Registration Committee	NCCCES 2016	2 days	TEQIP	National
5.	Member Venue Arrangement Committee	NCCCES 2016	2 days	TEQIP	National
6.	Conference Cordinator	Student Conference NCETESM 2016	01 day (29-04-2016)	ISTE	National
7.	Member Editorial Board	Student Conference NCETESM 2016	01 day (29-04-2016)	ISTE	National

S.No.	Role	Title of program	Duration	Sponsored by	Level
8.	Co- Coordinator (CSE), Core organising Committee	NCCCES 2017	01 day (13 th Dec 2017)	SBSSTC, FZR	National
9.	Member Editorial Board	NCCCES 2017	01 day (13 th Dec 2017)	SBSSTC, FZR	National
10.	Coordinator, Registration Committee	NCCCES 2017	01 day (13 th Dec 2017)	SBSSTC, FZR	National
11.	Member Reception Committee	NCCCES 2017	01 day (13 th Dec 2017)	SBSSTC, FZR	National