CURRICULUM VITAE

Personal Profile

Name: Reecha Sharma

Father's Name: Sh. Suresh Chander

Mother's Name: Smt. Chander Kanta

Date of Birth: 20th June, 1979

Place of Birth: Patiala

Nationality: Indian

Marital Status: Married

Language Known: English, Hindi, and Punjabi

Address: #493, Street No.4, Gobind Bagh Patiala-147002 (Punjab)

Contact No: +919501895500/+919501875500(Mobile)

E-Mail: reecha@pbi.ac.in

Professional Qualifications:

S. No.	Standard	Institute	Board/University	Percentage
1.	Ph.D (Development of Face Recognition Techniques for User Authentication)	Punjabi University, Patiala	Punjabi University, Patiala	Cleared
2.	M.E (Electronics, Instrumentation and Control Engineering)	Thapar University, Patiala	Thapar University, Patiala	7.66 CGPA
3.	B.Tech (Electronics & Instrumentation Engineering)	MMEC Mullana Ambala, Harayana	Kurukshetra University, Kurukshetra	67%
4.	Diploma (Electronics & Communication Engineering)	GPW Sector-10D Chandigarh	PSBTE & IT Chandigarh	67%
5.	10+2(Science Group)	Pheel Khana Sr. Sec. School, Patiala	Punjab School Education Board Mohali	56%
6.	Matriculation	Government Victoria Girls Sr. Sec. School, Patiala	Punjab School Education Board Mohali	69.5%

Present Status:

Position held	Name of organization	Period	Pay Scale	Nature of work
Assistant Professor (Regular)	ECE Department Punjabi University Patiala	23Dec 2011-till date	As per Govt. rules	Teaching of UG & PG Students
Lecturer (Adhoc)	ECE Department Punjabi University Patiala	1st Feb 2006 - 22 Dec 2011	As per Govt. rules	Teaching of UG & PG Students

Previous Teaching Experience:

Position held	Name of organization	Period	Pay Scale	Nature of work
Lecturer (Regular)	I.E.T Bhaddal, Ropar	August 2005-31Jan 2006	Rs. 13,500	Teaching of UG Students
Guest Lecturer	K.J. School of Management & Technology Patiala	02-02-05 to 31-05-05	Rs.300 per Lecture	Teaching of UG Students

Teaching Experience:

1. **11.5** Years teaching experience of UG & PG in engineering institutes.
2. **M.Tech Thesis guided: 26**
3. **PhD students Enrolled: 04**

Academic Responsibilities Handled:

- Delivering lectures to certificate, Diploma, UG students on the Electronics & Communication Engineering and Electronics & Instrumentation Engineering Courses
- Conducting laboratory practical
- Counseling of the students
- Preparing Tutorials
- Evaluation of tutorials and Assignment sheets
- Curriculum designing and recommendation of Texts on respective courses
- Preparation of course files
- Organizing Short term courses and workshops in the department

- Delivering Expert talks on innovative topics
- Motivating students to do research projects

Research/Professional Work:

1. Title of Ph.D Thesis:

"Development of Face Recognition Techniques for User Authentication" Ph.D thesis work done under guidance of Dr. M.S Patterh, Professor, Department of Electronics and Communication Engineering Punjabi University, Patiala, Punjab, India.

2. Title of M.E. Thesis:

"Behavioral Non-Linearties Compensation using advanced fuzzy Logic Model for Improved Performance of synchronous generator" M.E. Thesis work done under guidance of Dr. Yaduvir Singh, Assistant Professor, Department of Electrical and Instrumentation Engineering, Thapar University, Patiala (Punjab).

3. Professional Memberships

1. Institute of Electrical and Electronics Engineers (IEEE)
2. Institute of Telecommunication Engineering (IETE)
3. Institute for Engineering Research and Publication (IFERP)
4. International Association of Engineers (IAENG) Society of Artificial Intelligence IAENG Society of Computer Science
5. IAENG Society of Data Mining
6. IAENG Society of Electrical Engineering
7. IAENG Society of Imaging Engineering
8. IAENG Society of Information System Engineering
9. IAENG Society of Wireless Networks

List of SCI Journals

1. Sharma, Reecha and M. S. Patterh "A new pose invariant face recognition system using PCA and ANFIS" *Optik-International Journal for Light and Electron Optics, (Elsevier)* Vol. 126, Issue no. 23 (2015) pp: 3483-3487 **Impact Factor: 0.742.**

2. Sharma, Reecha and M. S. Patterh "A New Hybrid Approach Using PCA for Pose Invariant Face Recognition" *Wireless Personal Communications, (Sprigers) Vol.* 85, Issue no. 3 (2015) pp: 1561-1571 **Impact Factor: 0.701.**

3. Sharma, Reecha and M. S. Patterh "A broad review about face recognition–feature extraction and recognition techniques" *The Imaging Science Journal (Taylor & Francis*) Vol. 63, Issue no. 7 (2015) pp: 361-377 **Impact Factor 0.454.**

4. Vivek Singh and **Sharma, Reecha** *et al* "Comparative study of FIR and IIR filters for the removal of 50 Hz noise from EEG signal" *International Journal of Biomedical Engineering and Technology (Inder sciences)* Vol. 22, Issue no. 3 (2016) pp: 250-257. **Impact Factor:**

5. Amandeep Kaur and **Sharma, Reecha** "Medical Image Fusion based on Stationary Wavelet Transform and it's accession with Genetic Algorithm and Particle Swarm Optimization*" International Journal of Computer Applications in Technology (IJCAT). (Inder Science journal)*(**Communicated**).

List of International Journals (as first author)

1. **Sharma, Reecha** and Beant Kaur "Detection of Edges Using Mathematical Morphology for X-Ray Images" *Research Cell: An International Journal of Engineering Science. 2011.*

2. **Sharma, Reecha** and M. S. Patterh "A Systematic Review of PCA and Its Different Form for Face Recognition" *International Journal of Scientific & Engineering Research* Vol. 5, Issue no. 7, pp 1306-1309. ISSN: 2229-5518. July 2014.

3. **Sharma, Reecha** and M. S. Patterh "Pose Invariant Face Recognition using Neuro-Fuzzy Approach" *IOSR Journal of Computer Engineering (IOSR-JCE)* Vol. 17, Issue no. 3, pp 20-27. ISSN: 2278-8727. June 2015.

4. **Sharma, Reecha** and M. S. Patterh "Face recognition using face alignment and PCA techniques: a Literature Survey" *IOSR Journal of computer engineering (IOSR-JCE)* Vol. 17, Issue no. 4, pp 17-30. ISSN: 2278-8727. August 2015.

5. **Sharma, Reecha** and M. S. Patterh. "A face recognition system using PCA and AI techniques". *International Journal of Computer Applications* Vol. 126, Issue no. 6, pp 30-37. ISSN: 0975-8887. September 2015.

6. **Sharma, Reecha** and M. S. Patterh "Indian face age database: a database for face recognition with age variation*". International Journal of Computer Applications* Vol. 126, Issue no. 5, pp 21-27. ISSN: 0975-8887. September 2015.

7. **Sharma, Reecha** and M. S. Patterh. "Age Invariant Face Recognition using K-PCA and K-NN on Indian Face Age Database (IFAD)." *International Journal of Computer Applications.* Vol. 126, Issue no. 5, pp 21-27. ISSN: 0975-8887. September 2015.

List of International Journals(with M.Tech Students)

1. Nitasha and **Sharma, Reecha** "A Review: Circle Detection Using Modified Canny Edge Detection Algorithm" *International Journal of Engineering Research and Technology (IJERT)* ISSN: 2278-018, pp1-2. Vol.1, Issue 3, May 2012.

2. Nitasha, Shammi Sharma and **Sharma, Reecha** "Comparison between Circular Hough Transform and Modified Canny Edge Detection Algorithm for Circle Detection" *International Journal of Engineering Research & Technology (IJERT)* ISSN: 2278-0181. Vol. 1, Issue no. 3, pp1-5 (May-2012). ESRSA Publications, 2012.

3. Jashanbir Singh and **Sharma, Reecha** "Comparative Performance Analysis of Haar, Symlets and Bior wavelets on Image compression using Discrete Wavelet Transform" *International Journal of Computers & Distributed Systems* ISSN: 2278-5183, Vol. 1, Issue no. 2, pp 11-16**,** August 2012.

4. Jagpal Singh, Jashanbir Singh and **Sharma, Reecha** "Different Approaches of CBIR Techniques" *International Journal of Computers and Distributed Systems*. Vol. 1, Issue 2, pp76-78 ISSN: 2278-5183 August 2012.

5. Taranjit Kaur and **Sharma, Reecha** "Image Cryptography By TJ-SCA: Supplementary Cryptographic Algorithm For Color Images" *International Journal Of Scientific &Engineering Research* Vol. 4, Issue 7, Pp- 1355-1360**. ISSN:** 2229-5518. July 2013.

6. Taranjit Kaur and **Sharma, Reecha** "Security Definitive Parameters For Image Encryption Technique" *International Journal Of Emerging Technology And Advanced Engineering* Vol.3, Issue 5, ISSN: 2250-2459,Pp-109-112. May 2013.

7. Taranajit kaur and **Sharma, Reecha** "Voluminous amount cryptography methods and cryptography attacks," *International Journal of Engineering Science* Vol 6 issue 1 pp113-119. ISSN: 2231-6604. August 2013

8. Taranajit kaur and **Sharma, Reecha** "TJ-ACA and advance cryptographic algorithm for colour images using IKEDA mapping" *International Journal of Computer Trends And Technology* Vol 4 issue 5, pp 1295-1300.ISSN:2231-2803 May 2013

9. Rani, Kusum, and **Sharma, Reecha** "Study of different image fusion algorithm" *International Journal of Emerging Technology and Advanced Engineering* Vol.3, Issue no. 5, pp. 288-291. ISSN: 2250-2459. May 2013.

10. Rani, Kusum and **Sharma, Reecha** "Fusion of CT and MRI images using Discrete Multiwavelet Transform" *International Journal of Computer Trends and Technology (IJCTT)*, Vol. 4, Issue 5, pp 1341-1343. ISSN: 2231-2803.May2013

11. Rani, Kusum and **Sharma, Reecha** "Study of Image Fusion using discrete wavelet and Multiwavelet Transform" *International Journal of Innovative Research in Computer and Communication Engineering*, Vol. 1, Issue no. 4, pp. 795-799. ISSN: 2320-9798. June 2013.

12. Pallavi and **Sharma, Reecha** "Study of nighttime context enhancement algorithm" *International Journal of Science and Modern Engineering* Vol. 1 Issue No. 6, pp. 75-78. ISSN: 2319-6386. May 2013

13. Pallavi and **Sharma, Reecha** "A noval algorithm for nighttime context enhancement" *International Journal of Emerging Technology and Advance Engineering* Vol3, Issue No. 7, pp. 444-447. ISSN: 2250-2459. July 2013

14. Shaifi Goyal and **Sharma, Reecha** "Security of medical images by discrete sin transform encryption algorithm" *International Journal of Scientific and Engineering Research*, Vol. 4 Issue No. 8, pp. 930-932. ISSN: 2229-5518. August 2013

15. Shaifi Goyal and **Sharma, Reecha** "A Medical Image Watermaking Algorithm With Encryption By Discrete Sine Transform" *International Journal Of Advance Research In Computer Science And Software Engineering* Vol. 3, Issue No. 6, pp. 390-395. June 2013

16. Kaur, Amandeep and **Sharma, Reecha** "Detecting The Optic Disc Using Morphology And Histogram based Thresholding" *International Journal of Computer Science & Engineering Technology* Vol. 1, Issue no. 5, pp. 639-644. ISSN: 2229-3345. June 2014.

17. Kaur, Amandeep and **Sharma, Reecha** "Optic Disc Segmentation Based on Watershed Transform" *International Journal of Advanced Research in Computer Science & Software Engineering Technology* Vol. 4, Issue no. 5, pp. 681-685. ISSN: 2277-128X. May 2014.

18. Kaur, Amandeep and **Sharma, Reecha** "Performance Analysis for the Combination of Histogram based Thresholding and Morphological Watershed in comparison to other Existing Optic Disc Detection Techniques" *International Journal of Advanced and Innovative Research* Vol. 3 Issue No. 8, pp. 33-37. ISSN: 2278-7844. June 2014.

19. Kaur, Jaspreet and **Sharma, Reecha** "Analysis of the Performance of Fractal Image Compression on different Imaging modalities: A Review" *International Journal of Recent and Innovation Trends in Computing and Communication* Vol. 2, Issue no. 6, pp. 1476-1479. ISSN: 2321-8169. June 2014.

20. Kaur, Jaspreet and **Sharma, Reecha** "The performance of fractal image compression on different imaging modalities using objective quality measures" *International Journal of Recent and Innovation Trends in Computing and Communication* Vol.2, Issue no. 8, pp 2085-2087. ISSN: 2321-8169. August 2014.

21. Kaur, Maninderjeet and **Sharma, Reecha** "A novel technique for the estimation of accurate thickness of the sea ice" *International journal of advanced and innovative research* Vol. 3, Issue no. 8, pp. 38-41. ISSN: -2278-7844. August 2014.

22. Goyal, Shafali and **Sharma, Reecha** "Applications of digital image processing accompanied with morphological operations and its limitations" *International journal of recent development in engineering and technology* Vol. 3, Issue no. 2, pp 109-111. ISSN: 2347-6435. August 2014.

23. Goyal, Shafali and **Sharma, Reecha** "Defective key detection using image processing techniques*". Scholars Journal of Engineering and Technology* Vol. 2, Issue no. 4C, pp 628-631. ISSN: 2321-435X. August 2014.

24. Bala, Rajni and **Sharma, Reecha** "Efficient Method of CBIR Using Combination of Shape, Color and Texture Feature with Fuzzy Technique" *International Journal of*

Advanced Research in Electronics and Communication Engineering Vol. 3, Issue no. 8, pp 909- 913. ISSN: 2278-909X. August 2014.

25. Bala, Rajni and **Sharma, Reecha** "An Efficient Method for Content Based Image Retrieval Using Color, Shape and Texture Feature" *International Journal of Engineering Associates* Vol. 3 Issue 8, pp 5-8. ISSN: -2320-0804. August 2014.

26. Singla, Savita and **Sharma, Reecha** "Medical Image Stitching Using the hybrid of SIFT & SURF Techniques" *International Journal of Advanced Research in Electronics and Communication Engineering* Vol. 3, Issue no. 8, pp. 838-842. ISSN: 2278-909X. August 2014.

27. Singla, Savita and **Sharma, Reecha** "Comparative Study of SIFT, SURF and Hybrid Methods of Image Stitching" *International Journal of Engineering Associates* Vol. 3 Issue 8, pp 1-4. ISSN: -2320-0804. August 2014.

28. Singh, Vivek and **Sharma, Reecha** "Performance Comparison of Denoising Methods of Electroencephalogram" *International Journal of Engineering Research & Technology* Vol. 3 Issue 9, pp 484-487. ISSN: 2278-0181. September 2014.

29. Singh, Vivek and **Sharma, Reecha** "Wavelet Based Method for Denoising of Electroencephalogram" *International Journal of Advanced Research in Computer Science and Software Engineering* Vol. 5 Issue 4, pp 1113-1117. ISSN: 2278-0181. April 2015.

30. Kaur, Mandeep and **Sharma, Reecha** "Quality detection of fruits by using ANN techniques" *IOSR Journal of Electronics and Communication Engineering* Vol. 10 Issue 4, pp 35-41. ISSN: 2278-2834. August 2015.

31. Kaur, Mandeep and **Sharma, Reecha** "ANN based technique for vegetable Quality detection" *IOSR Journal of Electronics and communication engineering (IOSR-JECE)* Vol. 10 Issue 5, pp 62-70. ISSN: 2278-8735. October 2015.

32. Singh, Mandeep and **Sharma, Reecha** "Reversible non blind video watermarking based on interlacing 3level DWT and alpha blending technique" *IOSR journal of electronics and communication engineering (IOSR-JECE)* Vol. 10 Issue 5, pp 06-13. ISSN: 2278-8735. October 2015.

33. Sharma, Prateek and **Sharma, Reecha** "Shadow detection and its removal from images using strong edge detection method" *IOSR Journal of Electronics and communication engineering (IOSR-JECE)* Vol. 10 Issue 4, pp 72-75. ISSN: 2278-8735. August 2015.

34. Sharma, Prateek and **Sharma, Reecha** "Shadow Detection and its removal in image: A review". *Research Cell: An International Journal of Engineering Science* Vol. 17, pp 558-561. ISSN: 2229-6913. January 2016.

35. Kaur, Ramandeep and **Sharma, Reecha** "An implementation and analysis of RTS/CTS mechanism for data transfer in wireless network". *IOSR Journal of Electronics and communication engineering (IOSR-JECE)* Vol. 10 Issue 6, pp 10-15. ISSN: 2278-8735. December 2015.

36. Kaur, Ramandeep and **Sharma, Reecha** "An analysis of RTS/CTS mechanism for data transfer in wireless network: A review" *Research Cell: An International Journal of Engineering Science* Vol. 17, pp 569-572. ISSN: 2229-6913. January 2016.

37. Kaur, Gurwinder and Sharma, Reecha "A Systematic Performance Comparison of Artificial Intelligence Techniques used for ALNPR System" *Research Cell: A International Journal of Engineering Science* Vol. 17, pp 161-167. ISSN: 2229-6913 January (2016).

38. Kaur, Amandeep and Sharma, Reecha "Stationary Wavelet Transform Image Fusion and Optimization using Particle Swarm Optimization" IOSR Journal of Computer Engineering Vol. 18, Issue 3, Ver. 5,pp 32-38, 2278-8727, May-June 2016.

39. Kaur, Harsimranjot and **Sharma, Reecha** "A Survey on Techniques for Brain Tumor Segmentation from MRI" *International Organization of Scientific Research (IOSR) Journal of Electronics and Communication Engineering* Vol. 11, Issue 5, Ver. 1, pp 01-05, ISSN: 2278-8735, 2016.

40. Kaur, Harsimranjot and **Sharma, Reecha** "Segmentation of Tumor Region from Brain MRI images using Fuzzy C-Means Clustering and Seeded Region Growing" *International Organization of Scientific Research (IOSR) Journal of Computer Engineering* Vol. 18, Issue 5, Ver. 1, pp 20-24, ISSN: 2278-8727, 2016.

41. Kaur, Harsimranjot and **Sharma, Reecha** "Detection and Extraction of Tumor Region from Brain MRI using Fuzzy C-Means Clustering and Seeded Region Growth"

International Journal of Scientific and Engineering Research (IJSER) Vol. 7, Issue 8, pp 1971-1975, ISSN: 2229-5518, 2016.

42. Kaur, Manpreet and **Sharma Reecha** "To Discover the Dust Patterns from Image in Source Camera Identification" *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)* e-ISSN: 2278-2834, ISSN: 2278-8735.Vol 11, Issue 4, Ver. III, PP 87-90 July-August 2016.

43. Kaur, Manpreet and **Sharma Reecha** "The novel technique for the detection and removal of dust patterns from the image in source camera identification" *International Journal of Computer & Organization Trends (IJCOT)* Vol. 34, Issue No. 2, ISSN: 2249-2593, PP 50-54, August 2016.

44. Kaur, Manpreet and **Sharma Reecha** "Dust detection and removal from identified source camera using masking with Itti Koch method" *International Journal of Scientific and Engineering Research (IJSER)* Vol. 7, Issue 8, ISSN 2229-5518, PP 2009-2013, August 2016.

45. Arya, Madhvi and **Sharma Reecha** "Brain Tumor Detection through MR Images: A Review of Segmentation Techniques" *International Journal of Computer Applications* Vol. 153, Issue no. 7, pp 21-27. ISSN: 0975-8887. November 2016.

46. Arya, Madhvi and **Sharma Reecha** "Analytical Review on Segmentation based directions of brain tumor" *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)* Vol. 11, Issue no. 5, pp 43-49. *e* ISSN:2278-2834, ISSN:2278-8735. September- October 2016.

47. Sukhchain Kaur, Reecha Sharma, "A Systematic Analysis of Face and Fingerprint Biometric Fusion", International Journal of Engineering Sciences, vol. 20, pp. 113-117, Nov. 2016.()

48. Sukhchain Kaur, Reecha Sharma, "A Survey on Anti-Spoofing Techniques for Face and Fingerprint Modalities" International Journal of Emerging Technology and Advanced Engineering, vol. 7, no. 6, pp. 226-233, July 2017.

49. Sukhchain Kaur, Reecha Sharma, "Crypto-biometric Systems as a Framework against Spoofing Attacks" International Journal of Scientific and Engineering Research, vol. 8, no. 7, pp. 725-735, July 2017

50. Sukhchain Kaur, Reecha Sharma, "Analysis of Spoofing Robustness in a Multimodal Biometric System" International Journal of Advanced Research in Computer Science, vol. 8, pp. 1-4, Aug. 2017.

51. Sukhchain Kaur, Reecha Sharma, "An Intelligent Approach for Anti-Spoofing in a Multimodal Biometric System", International Journal of Computer Science and Engineering, vol. 9, no.8, pp. 522-529, Aug. 2017.

52. Swati Manhotra and Dr. Reecha Sharma "A Review: Analytical Analysis on Illumination Invariant Face Recognition" has been published in IJRASET, Vol. 5, no. 5, pp. 1938-1942, May 2017, ISSN: 2321-9653

53. Swati Manhotra and Dr. Reecha Sharma "A Research paper: Face Recognition under Varying Illuminations using Local Binary Pattern and Local Ternary Pattern Fusion" has been published in IJCER Vol. 7, no. 7, pp. 69-77, June 2017, ISSN (e): 2250 – 3005

54. Swati Manhotra and Dr. Reecha Sharma "A Research paper: Facial Feature Extraction using Local Binary Pattern and Local Ternary Pattern with Gradient based Illumination normalization" has been published in IJARCS Vol. 8, no. 7, July -August 2017, ISSN: 0976-5697.

55. Swati Manhotra and Dr. Reecha Sharma "A Research paper: Performance Evaluation of Illumination Invariant Face Recognition Algorithms" has been published in IRJET Vol. 4, no. 8, August 2017, ISSN: 2395-0056.

56. Jasmeet Kaur and Dr. Reecha Sharma "A Review: Analytical Analysis on Signature Recognition and Verification" has been published in IJRASET-2016, Volume 5 Issue V, May 2017 , ISSN: 2321-9653.

57. Jasmeet Kaur and Dr. Reecha Sharma "A Research paper: Offline Handwritten Signature Verification method based on Artificial Immune Recognition System and Artificial Neural Network" has been published in IJCER Volume 7, Issue 7, June – 2017, ISSN (e): 2250 – 3005.

58. Jasmeet Kaur and Dr. Reecha Sharma "A Research paper: A comparison of Artificial Neural Network and k-Nearest Neighbour classifiers in the off-line signature verification" has been published in IJARCS Volume 8, Issue 7, July -August 2017, ISSN: 0976-5697.

59. Jasmeet Kaur and Dr. Reecha Sharma "A Research paper: Fusion Based Feature Extraction by Gaussian, Laplacian pyramid and Canny Edge detector" has been published in IRJET Volume 4, Issue 8, August 2017, ISSN: 2395-0056

60. Anu Sheetal, Reecha Sharma, Meet Kumari "Enhanced Performance of Spectral Amplitude Coding Optical Code Division Multiple Access System Using Zero Cross-Correlation Code through Wired and Wireless Optical Channels" IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834,p-ISSN: 2278-8735.Volume 12, Issue 4, Ver. III (Jul.-Aug. 2017), PP 13-20.

List of National/ International Conferences

1. Kaur, Taranjit and **Sharma Reecha** "Newly framed cryptosystem for color images: TJ-ACA, TJ-SCA and TJ-ACA in CBC mode image encrypting algorithms are discussed and security decisive tests are compared" In *Image Information Processing (ICIIP), 2013 IEEE Second International Conference on*, pp. 666-671. IEEE, 2013.

2. Kaur, Amandeep and **Sharma Reecha** "Basic concept of watershed Transform and its challenges in image segmentation". *TEQIP-II Sponsored International conference on emerging technology*, N. C. College of Engineering Israna, Panipat. April 2014

3. Bala, Rajni and **Sharma Reecha** "Review on Different Challenges and Aspects of Content BasedImage Retrieval" *TEQIP-II Sponsored International conference on emerging technology* April 2014, N. C. College of Engineering Israna, Panipat. April 2014

4. Singla, Savita and **Sharma Reecha** "Survey on Image Stitching for Medical Images" *TEQIP-II Sponsored International conference on emerging technology* April 2014, N. C. college of Engineering Israna, Panipat. April 2014

5. Kaur, Amandeep and **Sharma Reecha** "Review on Different Challenges and Aspects of Content Based Image Retrieval" *International conference on innovative trends in electronics engineering ICITEE-2016*, 29th Jan 2016

6. Kaur, Amandeep and **Sharma Reecha** "Medical image fusion with Stationary Wavelet transform and Genetic Algorithm". *Fourth International conference on Advancements in engineering and technology. (International Journal of Computer Applications (0975 – 8887) International Conference on Advances in Emerging Technology (ICAET 2016)* March 18-19, 2016.

7. Kaur, Gurwinder and **Sharma Reecha** "A Systematic performance comparison of AI techniques used for ALNPR system" *International conference on innovative trends in electronics engineering* ICITEE-2016, 29th Jan 2016.

Courses Attended

Sr. No.	Programme	Duration	Organized by
1.	12th Orientation Program UGC- Academic Staff College, Punjabi University, Patiala.	Four weeks(3rd July to 30th May 2012)	UGC-Academic Staff College, Punjabi University, Patiala
2.	38th Refresher Course (professional course interdisciplinary) UGC sponsored Refresher Course.	Three weeks (14 Nov 2013 to 04 Dec 2013)	UGC-HRDC, Punjabi University, Patiala
3.	UGC sponsored One week workshop on Digital image processing using MATLAB	One week(November 29-December 5, 2012)	Department of Computer Science Punjabi University Patiala
4.	NITTTR sponsored STC on CYBER THREAT DECTECTION AND SAFETY	Two weeks(January 4 – January 15, 2016)	Department of Computer SCIENCE AND Engineering. Punjabi University 5Patiala
5.	NITTTR sponsored STC on Wireless Communication	One week (2nd May to 6th May 2016)	Department of Electronics and communication Engineering. Punjabi University Patiala
6.	NITTTR sponsored STC on Repair and Maintenance of Electronics Instruments	One week (9th Jan to 13th Jan 2017)	Department of Electronics and communication Engineering. Punjabi University Patiala

BOOKS PUBLISHED

1. Handbook on "Behavioral Non-Linearties Compensation Using Advanced Fuzzy Logic Model" Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN 978-3-659-83230-7. Page no. 1-137, 2016.

2. Handbook on "Medical Image Stitching using Hybrid of SIFT and SURF Methods" Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN: 978-3-659-88250-0. Page no. 1-69, 2016.

3. Handbook on "Development of face recognition techniques for user authentication". Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN: 978-3-659-89209-7. Page no. 1-157, 2016.

4. Handbook on "Medical Image Fusion based on SWT and optimization with GA and PSO". Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN: 978-3-659-95908-0. Page no. 1-89, 2016.

5. Handbook on "Dust Detection and Removal from Identified Source Camera Image". Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN: 978-3-330-03676-5. Page no. 1-81, 2016.

6. Handbook on "Image Fusion Using PCA and Directional Discrete Cosine Transform". Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN: 978-620-2-00586-9. Page no. 1-61, 2017.

7. Handbook on "Segmentation of Brain tumor from MRI Image". Text book (Main Author) LAMBERT Academic Publishing (LAP) ISSN: 978-620-2-02507-2. Page no. 1-89, 2017.

Lectures Delivered

1. Delivered Expert Lecture on Digital Electronics held on 18/10/2016 at department of computer science & engineering, CGC College of Engineering and Technology Landran.

2. Delivered Guest Lecture under ageis of Computer Society of India (CSI) on Biometrics held on 31/01/2017 at department of computer science & engineering, CGC College of Engineering and Technology Landran.

3. Delivered Guest Lecture on "Carrier Advancement for 10+2 students" held on 26th April 2017 at St. Xavier's International School, Patiala.

Workshops Conducted

1. Conducted one day workshop on MATLAB under ageis of Computer Society of India (CSI) and IEEE Student branch held on 07/03/2017 at department of computer science & engineering, CGC College of Engineering and Technology Landran.

Session Chair of National/ International Conferences

1. Chair Technical Session of *International Conference on innovative trends in electronics engineering*, Punjabi University, ICITEE-2016.

2. Chair Technical Session of *National Conference on Advances in Engineering & Technology, Management and Sciences (23 April 2016)* at ASRA College of engineering and Technology Bhawanigarh.

Awards National/ International

1. Award winner of outstanding faculty in engineering VIFA 2017.

2. Award winner of Adarsh Vidya Saraswati Rashtriya Puraskar 2017.

Editorial Board Members

1. Editorial board member of Glacier Journal of Scientific Research.

Committee Members of International Conferences

1. Member of review committee of ICITEE-2016 Punjabi University Patiala.

2. Organizing Committee Member at *6th World Conference on Applied Science Engineering and Technology, Goa* 2017.

3. Advisory board member for ICRESEET-17 conference which is going to be held in Goa on 8th and 9th of April 2017.

Duties as Coordinator

1. Faculty Coordinator of M.Tech –I Part time (2011-2016).

2. PG M.Tech (Part time) ECE Co-ordinator, Punjabi University, Patiala (2011-2016).

3. Course coordinator for STC on Wireless Communication in association with NITTTR Chandigarh (2nd May to 6th May 2016).

4. Course coordinator for STC on Repair and Maintenance of Electronics Instruments in association with NITTTR Chd held on 9th Jan to 13th Jan 2017

5. Coordinator of IETE Student Forum (ISF) ECE Punjabi University Patiala.

Events organized

1. President of fine art club Ranbhoomi 2012
2. Fine Art Club President of Department, Punjabi University, Patiala.
3. Organized function on International Women Day on 8th March 2016.
4. Organized function on Teachers Day 5th September 2016
5. Organized inaugural function for opening IETE student forum on on 10th October 2017
6. Organized one day workshop under IETE student forum on advances in wireless communication on 10th October 2017
7. Organized industrial visit to CSIO Chd for B.tech ECE students on 25th October 2016
8. Organized expert lecture under IETE student forum on wireless sensor network on 7th November 2017.

List of Papers/Courses taught at PhD, P.G. and U.G. Level

Research Methodology, Digital Image Processing, Digital Signal Processing, Digital Electronics Circuit, Measurement Science and Techniques, Control Engineering, Analog Electronics Circuit, Biomedical Instrumentation, Basic Electronics and Basics Electrical Engineering

https://scholar.google.com/citations?hl=en&user=jh6ySM0AAAAJ