



## **RESUME**

<b><u>Name :-</u></b>	<b>Mrs Dr. Sangeeta N. Kakarwal</b>
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<b><u>Qualification :-</u></b>	Ph.D. (CSE), ME(CSE) and BE(CSE)

### **PROFESSIONAL SUMMARY:**

POST	INSTITUTION	PERIOD	
		FROM	TO
Technical Assistant	MGM's Software Technology Park, Aurangabad	19/08/1996	27/02/1997
Lecturer	MGM's College of Engineering and Technology, Navi Mumbai	11/3/1997	29/7/1997
Lecturer	Marathwada Institute of Technology, Aurangabad	01/08/1997	04/01/1999
Lecturer	P.E.S. College of Engineering, Aurangabad	4/01/1999	27/06/2005
Associate Professor	P.E.S. College of Engineering, Aurangabad	28/06/2005	30/06/2013

Professor	P.E.S. College of Engineering, Aurangabad	w.e.f. 01/07/2013	Till date
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#### MEMBERSHIP OF COMMITTEES:

- ✓ ISTE (Life Member) 2. CSI (till 2018)

#### University Appointments:

- ✓ Delivered a Guest Lecture for UGC sponsored 68<sup>th</sup> orientation course for teacher educatory at Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (15/02/2007)
- ✓ Delivered a Guest Lecture for Refresher Course in Women Studies (ID) at Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (18/03/2014)
- ✓ Delivered a Guest Lecture for Refresher Course in E-learning and E-Governance at UGC –Human Resource Development Centre, Dr. Babasaheb Ambedkar Marathwada University (08/12/2015)
- ✓ Examiner / paper setter for U.G. as well as P.G. examinations of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- ✓ Visiting lecturer for M. Tech. (CSE) at Department of Computer Science & IT of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- ✓ Worked in Syllabus Setting Committee of SE(CSE/IT), ME(CSE) and Ph.D.(CSE) of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- ✓ Worked as a member of ‘Avishkar’ 2014 at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- ✓ Nominated by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on various Board of Studies for the Autonomous Government College of Engineering, Aurangabad
- ✓ Appointed as Chairperson by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad to design the syllabus in the subject of Computer Science and Engineering/ Information Technology

#### Responsibility:

- ✓ Worked as a Under Study for the Dr. Babasaheb Ambedkar Marathwada University Engineering Examination at P.E.S. College of Engineering
- ✓ Worked as a Chief Superintendent for the Dr. Babasaheb Ambedkar Marathwada University Engineering Examination at P.E.S. College of Engineering

- ✓ Worked as a Warden of Vaishali Girl's hostel at P.E.S. College of Engineering
- ✓ Worked as a Local Inspection Committee member for the affiliation of B.Tech. Course of MIT College, Aurangabad
- ✓ Worked as Deputy Chief Superintendent for AIEEE Exam 2010 at P.E.S. College of Engineering, Aurangabad
- ✓ Worked as First Year Engineering Incharge for 3 semester at P.E.S. College of Engineering, Aurangabad
- ✓ Worked as First Year Engineering Admission Counsel In-charge of P.E.S. College of Engineering, Aurangabad
- ✓ Working as a Head of Information Technology Department of P.E.S. College of Engineering, Aurangabad from 18/06/2012 to 16/05/2015
- ✓ Working as PG Coordinator of ME(CSE) at P.E.S. College of Engineering w.e.f. 16/05/2015
- ✓ Worked as an IEEE Student Branch Counselor (2014, 2015) of P.E.S. College of Engineering, Aurangabad.

### **Research Activities:**

- ✓ Guiding to research students of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

### **Conference/Seminar/ Workshop Attended**

#### **A) International Conference Papers:**

- ✓ Analysis of Image Compression using DWT with emphasis on features Mean Squared Error and PSNR, International Conference ICSCI 2005, under the aegis of Pentagonam Research Center, Hyderabad, pp. 492-494.
- ✓ Analysis of Facial Image Classification using Discrete Wavelet Transform, International Conference ICSCI 2007, under the aegis of Pentagonam Research Center, Hyderabad, pp. 700-705.
- ✓ Image Classification using Neural Network, International Conference ICSCI 2007, under the aegis of Pentagonam Research Center, Hyderabad, pp. 259-263.
- ✓ Analysis of Classification by Supervised and Unsupervised Learning, International Conference on Computational Intelligence and Multimedia Applications ICCIMA'07 at Mepco Schlenk Engg. College, Sivkasi, Tamilnadu, ISBN 0-7695-3050-8, pp. 280-284.
- ✓ Object Recognition using Correlation Technique, 4<sup>th</sup> International Colloquium on Signal Processing and its Applications (CSPA) 2008, Kuala Lumpur, Malaysia, pp. 301-306.
- ✓ Face Recognition with Fourier Descriptors and Fisher Discriminant Analysis, International Conference on Biometrics Technologies and Applications, held on Aug 29, 2008 at Delhi, pp. 162-181.

- ✓ Classification of Facial Images using FFNN, International Conference ICACT 2008 at GRIET, Hyderabad, pp. 435-438.
- ✓ Face Recognition Using FD and FFNN, IEEE International Advance Computing Conference at Patiala on 6-7 March 2009, pp. 2740-2742
- ✓ Experimental Analysis of Classification of Facial Images, IEEE International Advance Computing Conference at Patiala on 6-7 March 2009, pp. 3122-3127.
- ✓ Analysis of Retina Recognition by Correlation and SVD, 2<sup>nd</sup> International Conference on Advances in Computer Vision and Information Technology at Aurangabad 16-19 December 2009, pp. 44-48
- ✓ Analysis of Retina Recognition by Correlation and Covariance Matrix, Third International Conference on Emerging Trends in Engineering and Technology 2010 at Goa, ISSN 2157-0477, pp. 496-499
- ✓ Diverse Classifier for Face Recognition, International Conference ICKE 2011, ISBN 978-81-8487-123-4, pp. 129-135
- ✓ Face Recognition using Supervised Learning, World Comp 2012, USA, Jul. 2012.
- ✓ A Review on Comparison of Iterative Dichotomiser 3 and Naïve Bayes Classifiers, International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014), M.G. University, Kerala, Dec 2014
- ✓ Adaptive Thresholding for Image Enhancement: Hardware Approach, IEEE Conference ICNTE 2015 organized by Fr. C. Rodrigues Institute of Technology, Vashee, Mumbai

#### **B) National Conference Papers:**

- ✓ Image Compression Using Wavelet Transform A Review, National Conference on Computer Communication and Security organized by IETE and Dr. Babasaheb Ambedkar Marathwada University 2004, Aurangabad, pp. 66
- ✓ Finger Print Recognition and Image Analysis: A Review, National Conference and Workshop on Virtual Instruments, Embedded Systems & Robotics organized by Sensors Technology Pvt. Ltd. Gwalior 2004, pp. 87
- ✓ Analysis of Image Compression using DWT with emphasis on features Entropy and Compression Ratio, National Conference on Digital Image Processing organized by Thadumal Sahni Engg College 2005, Mumbai, pp. 111-27-111-32
- ✓ Fingerprint Identification System Using Automated Fingerprints Authentication System & Automated Fingerprint Identification System, National Conference organized by Royal Institute of Technology in the year 2005, Hyderabad
- ✓ Review: on Compression Techniques using Wavelet and Huffman Coding Methods, National Conference organized by Marathwada Institute of Technology in the year 2005, Aurangabad, pp. 180-183
- ✓ Analysis of Image Compression using DWT with emphasis on features Chi-Square test and Energy Content, National Conference organized by Govt.College of Engg in the year 2006, Aurangabad, pp. 109-113
- ✓ Review: Neural Network and its Applications, National Conference organized by M.A.E. Alandi (D) , Pune.
- ✓ Face Recognition using Probabilistic Neural Network, National level Conference on recent Trends in Computers and Communications at Vidyalkar Institute of Technology, Mumbai, pp. 46-50

- ✓ Digital Image Processing and its Applications: A Review, National level Conference on Recent Trends in Computers and Communications at Vidyalkar Institute of Technology, Mumbai, pp. 249-253
- ✓ Image Enhancement and Feature Extraction for Fingerprint Images: A Review, National Level Conference at M.I.T., Aurangabad
- ✓ Multimodal Biometric Recognition based on Decision Level using Wavelet Transform, J.T. Mahajan College of Engg., Jalgaon, pp. 23.

### **STTP / Workshops Attended**

- ✓ Participated in the workshop “Implementation of DSP Algorithms using Matlab and TMS 320C5402”, organized by Jawaharlal Nehru Engg College, Aurangabad in the year 2003.
- ✓ Participated in the workshop “Matlab and Simulink”, organized by India Soft Technologies at Shrama Sadhana Trust’s College of Engg at Jalgaon in the year 2003.
- ✓ Participated in “National Symposium on Emerging in Database Technology”, organized by P.I.E.T, Pune in the year 2004.
- ✓ Participated in the workshop on “Satellite Data Processing”, organized by J.E.S. College of Arts and Science, Jalna in the year 2005.
- ✓ Participated in the workshop on “Managerial skills”, organized by Govt. College of Engg., Aurangabad in the year 2005.
- ✓ Participated in the workshop on “MATLAB for Computer Engineers”, organized by Govt. College of Engg., Aurangabad in the year 2005.
- ✓ Participated in the workshop on “Octave-Open System Software”, organized by M.I.T. College of Engg., Aurangabad in the year 2009.
- ✓ Participated in the workshop on “High Impact Teaching Skills”, organized by Wipro at J.N.E.C., Aurangabad in the year 2010.
- ✓ Participated in “National Workshop on Data Warehousing and Data Mining” at Department of Computer Science and Information Technology of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in the year 2010.
- ✓ Participated in the workshop on “Effective Research Methodology” at M.I.T. College of Engg., Aurangabad in the year 2010.
- ✓ Participated in the workshop on “Linux Administration” at P.E.S. College of Engg, Aurangabad in the year 2010.
- ✓ Participated in the workshop on “Managing Clients and Server Operating System in Microsoft Technologies” at P.E.S. College of Engg., Aurangabad in the year 2010.
- ✓ Attended one day workshop on Syllabus of First Year Engg., for the subject EECE at Shreyash Engg. College, Aurangabad in the year 2011.
- ✓ Participated in ISTE STTP on “Engineering Optimization Technique and its Applications in Research” at Government College of Engg., Aurangabad in the year 2012.

- ✓ Attended one day workshop on Syllabus of Second Year Engg. at M.I.T. B.Tech, Aurangabad in the year 2012.
- ✓ Participated in a ISTE Short Term Course on “Soft Computing” at Jawaharlal Nehru Engg. College, Aurangabad in the year 2013.
- ✓ Participated in a ISTE Short Term Course on “Data Mining: Research Oriented Approach”, at P.E.S. College of Engineering, Aurangabad, in the year 2013
- ✓ Participated in a workshop on “Network Security” at Deogiri Institute of Engg. And Management, in the year 2014.
- ✓ Participated in a “Workshop on Hadoop Technology” at Department of Computer Science and Information Technology of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in the year 2014.
- ✓ Participated in a ISTE sponsored STTP on “Automation of Robotics ” at P.E.S. College of Engineering, Aurangabad (15/06/2015 to 19/06/2015)
- ✓ Participated in a IETE sponsored STTP on “Soft Computing-ANN & Fuzzy Applications in Engineering” at Deogiri Institute of Engineering and Management Studies, Aurangabad (30/11/2015 to 05/12/2015)

### Research Papers Published in the International Journal

- ✓ Information Theory and Neural Network based Approach for Face Recognition: A Review, International Journal of Recent Trends in Engineering, pp. 176-178, Vol. 2, No. 4, Nov 2009.
- ✓ Wavelet Transform based Feature Extraction for Face Recognition, pp. 100-104, International Journal of Computer Science and applications, Issue-I June 2010, ISSN 0974-0767.
- ✓ Hybrid Feature Extraction Technique for Face Recognition, pp. 60-65, International Journal of Advance Computer Science and Applications, Vol.3, No.2, 2012, ISSN 2156-5570 (Online). **(Impact factor: 1.18)**
- ✓ Performance Analysis of Face Recognition by Principal Component Analysis and Feed Forward Neural Network, International Journal of Engineering Innovations and Research, Vol.1 Issue 1 2012, ISSN 2277-5668, pp. 40-45.
- ✓ Statistical Analysis of Face Recognition Technique, International Journal of Electronics Communication and Computer Engineering, Vol. 5, Issue 1, Jan 2014, ISSN (Online): 2249– 071X, ISSN (Print): 2278– 4209, pp. 115-119. **(Impact factor: 1.386)**
- ✓ A Review on Cloud Computing Vulnerabilities, International Journal of Innovative Research in Science, Engineering and Technology, ISSN (Online) : 2319 – 8753, ISSN (Print) : 2347 – 6710, Vol.3, Special Issue4, April 2014, pp. 226-230 (Impact factor 1.682)
- ✓ A Survey on Traditional and Hybrid Approaches to Broadcasting in MANET, International Journal of Engineering Technology and Applied Science, Jan 2015, Vol.3 Issue 1, ISSN 2349-4476, pp. 01-16 **(Impact factor 2.24)**
- ✓ Analysis of Mutual Information as Facial Feature Extraction Technique, International Journal of Engineering Technology and Applied Science, Jan 2015, Vol.3 Issue 1, ISSN 2349-4476, pp. 131-138 **(Impact factor 2.24)**

- ✓ Mobility Aware Refined Counter Based Broadcasting Model of MANET, International Journal of Engineering Technology and Applied Science, (**Impact factor 2.24**)
- ✓ Optimal Performance and Security by Division and Replication of Data in Cloud: Review, Global Journal of Engineering Science and Research Management, ISSN 2349-4506, Nov 2015, pp.44-46 (**Impact Factor: 2.265**)
- ✓ Multimodal Biometric Fusion Strategy for Authentication, International Journal of Innovations & Advancement in Computer Science, ISSN 2347 – 8616, Volume 5, Issue 3, March 2016, pp. 21-24 (**DIIF 2.65**)
- ✓ Study on Resource Allocation in Cloud Computing, International Journal for Research in Engineering Application and Management, ISSN 2454-9150, Vol. 2, Issue 1, Apr 2016

#### Areas of Interest:

- ✓ Image Processing
- ✓ Pattern Recognition
- ✓ Computer Vision