

# Curriculum Vitae

## Dr. Manza Ramesh Raybhan

[M.Sc., Ph.D., SET, NET in Computer Science]

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### Personal Information

**Name:** Dr. Manza Ramesh Raybhan

**Designation:** Professor of Computer Science

**Mailing Address:** Dr. Manza Ramesh Raybhan

Department of Computer Science and Information Technology,

Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad (MS) India-431004.

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**Residence Address :**“Santkrupa”, Row House No. 5, Amazon Park,  
Nath Vally School Road, Kanchanwadi, Paithan  
Road, Chhatrapati Sambhajnagar (MS) India-  
431005.

**Date of Birth:**05 June 1975.

**Cast:** Naykda (Scheduled Tribe)

### Educational Qualifications (Starting from Graduation onwards):

- o **B.Sc. (Physics, Chemistry and Computer Science)** from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, in 1996, with First Division.
- o **M.Sc. (Computer Science)** from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, in 1998, with First Division,**3rd Rank**.
- o **Ph.D. (Image Data Compression)** from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, in 2006.
- o **Qualified SET (Computer Science and Applications)** from University of Pune, Pune in 2002.
- o **Qualified NET (Computer Science and Applications)** from UGC New Delhi in 2002.
- o **MSC-IT(Computer)** from MKCL Pune in 2004 with First Division.

## Professional Trainings:

### Details of professional training and research experience, specifying Period.

1. Endress + Hauser Technical Training, coordinator, 8<sup>th</sup> – 12<sup>th</sup> July 2013.
2. E- Governance Workshop, Co-coordinator, 30-July 2013.
3. “Network Campus Cabling through Fiber Optics”, 22 Jan 2002 at C-DAC Pune.
4. “Workshop on Advanced Web Based Computing”, NM University, Jalgoan, 9 to 10 Feb 2002.
5. “Parallel Computing and Grid Computing”, Dpet. Of CS&IT, Dr. BAMU Aurangabad, 21 to 22 Jun 2002.
6. “Implementation of DSP Algorithm Using MATLAB and TMS320C5402”, Dpet. Of Electronics JNEC Aurangabad, 21 to 23 Feb 2003.
7. “OOAD with UML” Dept of CS and E GCO Engineering Aurangabad, 19 to 20 Aug 2003.
8. “Rational Rose”, 25 to 29 Aug 2003, at Rational Software Development Company, Pune.
9. “MATLAB 6.5 and Applications”, Dept of E&T, GCO Engineering, Aurangabad, 21 to 22 Feb 2004.
10. “Satellite Data Processing (Remote Sensing Applications)”, RGBA, SBLC and RBS College, Jalna, 14 to 15 March 2005.
11. “Wavelet and Advanced Wavelet”, Three Days Training during 31-01-2006 to 02:02:2006, at Govt. Engineering College, Aurangabad-India.
12. “Embedded System and its Applications”, Dept. of CS and IT, Dr. BAMU, Aurangabad, 7 March 2006.
13. “Software 2.0 Emerging Competencies for Enterprise Solution and Knowledge Based Engineering (KBE)”, Organized by Computer Society of India, Division-II (Software) and CSI Aurangabad Chapter on 9<sup>th</sup> October 2010.
14. Five Days Training on "IPR and WTO issues" at ATI, BARC, Mumbai from January 9-13, 2012, organized by Patent Facilitating Centre (PFC), Technology Information Forecasting and Assessment Council (TIFAC) Department of Science & Technology, A Wing Vishwakarma Bhawan ShaheedJeet Singh Marg, New Delhi –110016
15. Two Days Training on Introduction to COMSOL Multiphysics and COMSOL Advanced Features, organized by COMSOL Multiphysics Pvt. Ltd. Esquire Centre, C-Block 3<sup>rd</sup> Floor, No. 9 MG Road, Bangalore-560001, at New Bridge Business Center, 1<sup>st</sup> floor, ParineeCrescenzo, C38 and C39, G Block, Bandracurla Complex, Bandra-E, Mumbai-51, during 23<sup>rd</sup> and 24<sup>th</sup> Feb 2012.
16. One Day Training Workshop on “Right to Information (RTI) Act”, 13 March 2012 Organize by Yashada Pune and Dr. BAM University, Aurangabad at Department of Journalism, Dr. BAM University, Aurangabad.

17. One Weeks 6<sup>th</sup> to 11<sup>th</sup> Aug 2012 on "MEMS Design Training Workshop", at MEMS Design Center University of Hyderabad.
18. Two Weeks 19<sup>th</sup> to 30<sup>th</sup> Nov 2012 on "IEEE Bio Medical Imaging Workshop 2012", at IIT Kharagpur.
19. One Day Workshop on "Integrating Geospatial Technology for e-Governance of Indian Districts", organized by Department of Computer Science and IT, Dr. BAM University, Aurangabad (MS) India on 19-01-2013.
20. "Workshop on Awareness of Antiplagiarism Software", 12<sup>th</sup> December 2013 Organize by Knowledge Resource Center (University Library) Dr. BAM University.

### **Refresher Courses:**

1. Refresher course on "E-Governance and E-Learning", at UGC-Academic Staff College, Dr. BAM University, Aurangabad (MS) India-431004 during 3rd September to 27th September 2013.
2. Fourth at Dr. BAM University, Aurangabad during 8<sup>th</sup> March to 28<sup>th</sup> March 2011.
3. Third at Dr. BAM University, Aurangabad during 7th March 2009 to 28rd March 2009.
4. Second JNTU Hyderabad at during 17 Jan to 2 Feb 2005.
5. First at Shivaji University Kolhapur during 3 to 24 Nov 2003.

### **Orientation Courses:**

1. One Orientation Course at Dr. BAM University, Aurangabad during 2 Jan to 29 Jan 2007.

### **Talks Delivered:**

1. Delivered talk on "Computer Vision" at Dr. G. Y. Pathrikar College of Computer Science and Information Technology, Aurangabad on 20-09-2016.
2. Delivered one lecture on "Computer Vision" at Marathwada Institute of Technology, Aurangabad on 06-09-2016.
3. Delivered two lectures on 11-07-2016 to the participants of 112<sup>th</sup> Orientation Program Organized by UGC & Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
4. Delivered two lectures on 18-05-2016 to the participants of 111<sup>th</sup> Orientation Program Organized by UGC & Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

5. "Neural Network & Image Processing", 16<sup>th</sup> -17<sup>th</sup> Feb 2016, in Tow Days Workshop at MIT Aurangabad.
6. "Compiler Design & Image Processing", 22<sup>nd</sup> & 23<sup>rd</sup> January 2016, in Two Days Workshop at MGM , Dr. G. Y. Pathrikar College of Computer Science and Information Technology, Aurangabad.
7. Delivered two lectures on 02-12-2015 to the participants of Refresher Course in E-Governance& E-Learning (Inter Disciplinary) Organized by UGC & Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
8. Delivered one lecture on 01-12-2015 to the participants of Refresher Course in E-Governance& E-Learning (Inter Disciplinary) Organized by UGC & Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
9. "ICT Based Teaching & Learning Using Moodle", in Digital India Week Program, Organized by Solapur University, Solapur. 07<sup>th</sup> July 2015.
10. "Digital Image Processing Using MATLAB (DIPUM-2015)" 16th January 2015, in a State Level One-Day Workshop at Department of Computational Science, Swami Ramanand Tirth Marathwada University, Nanded's New Model Degree College, Hingoli.
11. "Digital Image Processing" at MIT Engg. College, Beed By Pass Aurangabad on 11-10-2014.
12. "Image Processing with MATLAB", from 22/09/2014 to 24/09/2014 at Dr. G. Y. Pathrikar College of Computer Science and Information Technolgy, Aurangabad.
13. "Digital Image Processing" at Sangola College, Sangola, Dist Solapur on 30-31 March 2014.
14. "Diabetic Retinopathy" in One Day Orientation Program on 16-3-2014 at Shivchattrapati College CIDCO N-3, Aurangabad.
15. Talk on "DIUM and Biomedical IP" in Refresher course at Guru Nanak Dev Engg College, Bidar on 11 and 12 March 2014.
16. "DIPUM for Feature extraction and Analysis of Biomedical Images" in National Workshop on Advances in computing organized by NMU Jalgoan on 13-02-2014
17. "MS Office" and "Computer Fundamentals" at CVET of Dr BAMU for Sem-I and Sem-II during academic year 2013-14.
18. "Data Communication and Networking", Organized by Department of Computer Science, Milind College of Science, Aurangabad on 11-12-2014.
19. "E-Governance for Bio Medical", in Refresher Course on E-Governance & E-Learning on 26-11-2014 at ASC Dr. BAMU, Aurangabad.

20. “E-Learning”, in Refresher Course on E-Governance & E-Learning at ASC Dr. BAMU, Aurangabad. on 20-11-2014
21. “Bio-Medical Image Processing”, on 11-11-2014 at Refresher Course in Basic Science at Sant Gadge Baba Amravati University.
22. Guest Lecturer at CVET of Dr BAMU for Sem-I and Sem-II of 2013-14.
23. Delivered Talk on “Digital Image Processing Toolbox in MATLAB”, in National Workshop in MATLAB and Image Processing (NWMIP) on 23-24 December 2013 at Solapur University, Solapur.
24. Delivered Talk on “Preparation of NET/SET”, on 21<sup>st</sup> December 2013 at PG Department, MIT CIDCO, Aurangabad (MS) India.
25. Delivered Talk on “Image Processing, Artificial Intelligence and Its Applications”, in Two Week Short Term Training Program (STTP) on 19-20<sup>th</sup> November 2013 at College of Engineering and Technology, Amravati.
26. Delivered Talk on “Digital Image Processing Using MATLAB and Biomedical Image Processing”, in One Day Workshop on “Bio Medical Image Processing” on 3<sup>rd</sup> October 2013 at Department of Electronics, Brijlal Biyani Science College, Amravati (MS) India.
27. Delivered Talks on “Digital Image Processing and Its Application”, on 2<sup>nd</sup> October 21, 2013 and 6<sup>th</sup> October 2013 at MIT Engineering College, Aurangabad (MS) India-431005.
28. Delivered Talks and given hands on Training in Two Days Workshop on “Digital Image Processing Using MATLAB”, on 2<sup>nd</sup> and 3<sup>rd</sup> August 2013, MGM’s College of Computer Science and IT, MGM Campus Near Airport, Nanded (MS) India-431605.

### Lecture Delivered

1. Delivered guest lecture on 11-12-2014 to the subject “Data Communication and Networking”, Organized by Department of Computer Science, Milind College of Science, Aurangabad.
2. Delivered one lecture on 26-11-2014 to the participants of Refresher Course in E-Governance & E-Learning as resource person.
3. Delivered one lecture on 20-11-2014 to the participants of Refresher Course in E-Governance & E-Learning as resource person.
4. Delivered two lectures on 11-11-2014 to the participants of Refresher Course in Basic Science at Sant Gadge Baba Amravati University.
5. Use of IP tool of MATLAB for Biomedical Imaging at Dept of Comp Sci SRTMU Sub Center Latur, 22-10-2012.

6. Biomedical Imaging at Refresher Course in Computational Sciences at Academic Staff College, SGB Amravati, University, Amravati, on 12-10-2012.
7. Teaching Learning and Evaluation in Semester Pattern at Workshop on Step to Enhance Quality Education in Semester Pattern at Dr. G. Y. Patharikar College of IT, MGM campus, Aurangabad, on 30-04-2012.
8. Microsoft Word 2010 at Government Pharmacy College, Aurangabad on 16<sup>th</sup> April 2012 in One Week Short Term Training Program on “Innovative Instructional Tools: Use of Software” during 16<sup>th</sup> April 2012 to 20<sup>th</sup> April 2012.
9. Image Processing Using MATLAB, at Refresher Course in Computer Science at Academic Staff College, SGB Amravati, University, Amravati, on 22 March, 2012.
10. Student Orientation in valedictory function of Computer Science Club Program on 29-02-2012 at S. B. Science College, Aurangabad.
11. Image Processing Using MATLAB on 13-02-2012 at Dr. G. Y. Patharikar College of IT, MGM campus, Aurangabad.
12. SET-NET Preparation, Deogiri College, Aurangabad 25/11/2011 and 01/12/2011 on Image Processing and Computer Networking.
13. Effective Teaching on Image Processing, Deogiri College Aurangabad, 21 September 2011.
14. SET-NET Preparation, Solapur University, Solapur Jan 2011 on Image Processing.
15. SET-NET Coaching, Dept of CS, NMU Jalgoan, 21 to 22 May 2008.
16. Campus Interview Preparation on Operating System at Hitech Engg. College, Aurangabad, 4 March 2008.
17. Effective Teaching on CS and IT, Deogiri College Aurangabad, 10 Feb 2008.
18. Symposium on CS and IT, VN College, Aurangabad, 10 Dec 2007.
19. M-Commerce at Wadia College, Pune, 24 to 26 Dec 2007.
20. Microprocessor-8086, VN College, Aurangabad, 14 to 16 Jan 2005.

### **Positions:**

1. Dr. B. A. M. U. ad-hock board member of M. sc. CS and M. Sc. IT from 2015 to 2017
2. Presiding Officer’s Election Duty (Maharashtra state assemble election 2014)
3. Member of Special cell advisory board of Dr. BAMU Aurangabad 2014-2015
4. Member Annual report committee of 2014-2015 of Dr. BAMU Aurangabad
5. Coordinator of Other college/university/institute Students visit to CSIT department of Dr. BAMU (JNEC/PES) 2013 to 2015

6. Member of stage committee of Sport event during 25-11-2014 to 2-12-2014 at Dr.BAMU
7. Annual Rate Contract committee member of Dr. BAMU 2014-2015
8. Annual Maintenance Contract committee member of Dr. BAMU 2014-2015
9. Team Leader “Avishkar 8th State Inter-University Research Convention” during 16<sup>th</sup>–18<sup>th</sup> January 2014, at North Maharashtra University, Jalgaon.
10. Member of College Chalo Abhiyan of Dr. BAM University 2014-2015.
11. Member of Special Cell Committee of Dr. BAMU for 2014-2015
12. Chairman of M. Sc. IT Paper Setting Committee 2014-2015
13. Member of M. Sc. CS Paper Setting Committee 2014-2015
14. B. Sc. Multimedia and Networking Paper Setting Committee 2014-2015
15. Ad hock board of MCA, Dr. BAM University, Aurangabad since 2013 to 2015.
16. Chairman of M. Sc. Information Technology Board of Examination of Dr. BAM University, Aurangabad (MS) India-431004 Since June 2013.
17. Member of Ad Hock Board of Computer Science, Information Technology courses of Dr. BAM University, Aurangabad (MS) India-431004 since Apr 2013.
18. Member of Board of Studies of Master of Computer Application of Dr. BAM University, Aurangabad (MS) India-431004 since Apr 2013.
19. Treasurer of National Conference on “Computer Communication and Security”, 4th to 5th Jan,2004, organized by our Department.
20. Treasurer of Workshop on “E-Education”, 16th Sept.2004, organized by our Department.
21. Secretary of International Conference on “Advances in Computer Vision and IT”, November 28 to 30, 2007, organized by our Department.
22. Secretary of International Conference on “Advances in Computer Vision and IT”, 16th to 19th Dec, 2009, organized by our Department.
23. Joint Secretary of International Conference on “Knowledge Engineering”, 29th to 31st Jan, 2011.
24. Coordinator of One Day Workshop on Open Source Quantum GIS, organized by Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 3rd September, 2011.
25. Jury for Evaluation of Project Proposals in AVISHKAR 2010 and AVISHKAR 2011, 28-29 Dec at North Maharashtra University, Jalgaon.

26. Co-Coordinator of M. Phil in Computer Science Course.
27. Co-Coordinator of NACC of Department of Computer Science and IT 2011-2012.
28. Co-Coordinator of TPO of Department of Computer Science and IT.
29. Coordinator of CR, DR and LR nomination from 2005.
30. Coordinator of Department Financial Budget Preparation from 2010.
31. Secretary of University Academic Section Computerization Committee 2011.

### **Life Member:**

1. Member of IEEE:
  - . Cloud Computing Community, IEEE
  - . IEEE Membership (electronic)
  - . IEEE Engineering in Medicine and Biology Society Membership
  - . IEEE Transactions on Medical Imaging,
  - . IEEE Biometrics Council
  - . IEEE Nanotechnology Council
  - . IEEE Sensors Council
2. IAEng: International Association for Engineers and Computer Scientists, Hong Kong.
3. CSTA: Computer Science Teachers Association, New York
4. IACSIT: International Association of Computer Science and Information Technology, Singapore
5. ISCA: Indian Science Congress Association, Kolkata
6. ISSS: Institute for Smart Structures and Systems (MEMS), IISc Bangalore
7. Member of IEEE: Institute of Electrical and Electronics Engineers, USA.

### **Fellow:**

1. FIETE: Institute of Electronics and Telecommunication Engineers, New Delhi.

### **Key Note Address:**

1. Keynote address on “Research Paper Writing Skills”, Workshop on Research in computer Science at IMR Jalgoan, 22-10-2011.
2. Keynote address on “Digital Image Processing Using MATLAB”, One Day Workshop on Effective Teaching, organized by Deogiri college, Aurangabad, on 21 August, 2011.



3. Keynote Address on “Novel Ideas of Image Compression:”, State Level Seminar on Emerging Trends In Information Technology, organized by Pratibha College of Commerce and Computer Studies, Chinchwad, Pune, during 12th Jan to 13th Jan 2011.
4. Key Note Address on “Mobile learning decreases limitation of learning location with the mobility of general portable devices” at BhartiVidyapeeth University’s IMRDA, Sangali, at National conference on ‘Information Technology and Management Practices: Past Present and Future’. The conference was held during February 20 and 21, 2009.
5. Delivered lecturer on Computer Application in Orientation Courses during 2004 to 2009.
6. Key Note Address on “Budding mCommerce lifestyles and its Authentication”, Recent Trends in Information Technology and Education for Undergraduate Computer Teachers, Under CPEScheme of UGC, New Delhi held on 21st & 22nd March, 2008, Chh. Shahu Institute of Business Education & Research (SIBER), Kolhapur.
7. Keynote address on “Various Aspects of Image Data Compression”, National Conference at COCSIT, Latur, 18-19 Feb 2008.

### Areas of Specialization:

Bio Medical Image Processing, Computer Vision, Remote Sensing, Nano Robotics, MEMS, Microprocessor, Embedded, Networking.

### Editorial Board Member

1. M. Sc. I. T. Board of Examination Chairman
2. Editorial Board Member of International Journal of Computer Science and Information Technology, Serial Publication New Delhi, ISSN: 0974-8385.
3. Editorial Board of International Journal of Information Systems, Publish by SIMCA, ISSN: 2229-5429.
4. Scientific Committee and Editorial Review Board of World Academy of Science, Engineering and Technology
5. Research and Development: Advisory Committee Member for International Journal Computer Science and Application of Sinhgad Institute of Business Administration and Research, Pune.

### Awards :

1. M. Sc. Computer Science Exam Rank **3<sup>rd</sup> Merit Award** by Vivekanand College, Auragabad, March 1998.

2. “**Shikshak Pratibha**” award on 5<sup>th</sup> Sept. 2008 by Dept of Journalism, Dr. BAMU Aurangabad.
3. “**Vidyaratna**” award on 31 October 2010 by Indian NET-SET Association, Gadgenagar Amravati.

### **Member Board of Studies:**

1. Computer Science, Solapur University, Solapur, Jun 2010.
2. Ad-hoc Board in Networking and Multimedia during Jan 2011 to 2013.
3. Ad-hoc Board in Computer Science and IT during 19-02-2011 to 18-05-2013.

### **Details of employment (past & present).**

1. Lecturer from 1<sup>st</sup> Sept 1998 to 30 Aug 2001 at Vivekanand College, Aurangabad.
2. Assistant Professor from 1<sup>st</sup> Sept 2001 to till date at Department of Computer Science and IT, Dr. BAM University, Aurangabad.

### **List of publications:**

#### **Journals:**

1. Sushil N. Gawhale, Ramesh R. Manza, Yogesh M. Rajput, “Review on Intrusion Detection System (IDS) False Alarm for Mobile Ad hoc network”, International Journal of Advanced Engineering and Global Technology, ISSN No: 2309-4893, Vol-04, Issue-06, November 2016.
2. Dnyaneshwari D. Patil, Ramesh R. Manza, “Design new algorithm for early detection of primary open angle glaucoma using retinal Optic Cup to Disc Ratio”, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), IEEE Xplorer DOI: 10.1109/ICEEOT.2016.7754905, 24 November 2016.
3. V. C. Bagal, R. R. Manza, “Feature extraction of plant species from leaf architecture”, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), IEEE Xplorer DOI: 10.1109/ICEEOT.2016.7755481, 24 November 2016.
4. Monali D. Rathod, Ramesh R. Manza, Deepali D. Rathod, Yogesh M. Rajput, “Detection of Diabetes on the Basis of Color Differentiation using Thermography Infrared Imaging

Technique on Plantar Foot”, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 5 Issue 08, August-2016.

5. Yogesh M. Rajput, Ramesh R. Manza, Deepali D. Rathod, “Design New Biorthogonal Wavelet Filter for Extraction of Exudates from Fundus Images”, International Journal of Computer Applications (0975 – 8887) National Conference on Digital Image and Signal Processing 2016.
6. Yogesh M. Rajput, Ramesh R. Manza, Karbhari V. Kale, “Inner Iris Localization and Statistical Feature Extraction of CASIA and KVKR Databases”, International Journal of Computer Applications (0975 – 8887) National Conference on Digital Image and Signal Processing 2016.
7. Monali D. Rathod, Ramesh R. Manza, Deepali D. Rathod, “Early Detection of Ulcer using the Non Invasive Thermography Technique on the Foot Images”, International Journal of Computer Applications (0975 – 8887) National Conference on Digital Image and Signal Processing 2016.
8. Dnyaneshwari D. Patil, Ramesh R. Manza, “Primary Open Angle Glaucoma Diagnosis using Neuro Retinal Rim Ratio”, International Journal of Computer Applications (0975 – 8887) National Conference on Digital Image and Signal Processing 2016.
9. Anupriya K. Kamble, Ramesh R. Manza, Yogesh M. Rajput, “Review on Diagnosis of Diabetes in Pima Indians”, International Journal of Computer Applications (0975 – 8887) National Conference on Digital Image and Signal Processing 2016.
10. Monali Y. Khachane, R. J. Ramteke, R. R. Manza, “Fuzzy Rule Based Classification of Human Spermatozoa”, Proceeding of the IEEE International Conference on Electrical Electronics Signals Communication and Optimization (EESCO), ISBN:978-1- 4799-7676-8, 2016.
11. Shivanand S. Gornale, Pooja U. Patravali, Ramesh R. Manza, “Detection of Osteoarthritis using Knee X-Ray Image Analyses: A Machine Vision based Approach”, International Journal of Computer Applications (0975 – 8887) Volume 145 – No.1, July 2016
12. R.P. Ambilwade, R.R. Manza, Ravinder Kaur, “Prediction of Diabetes Mellitus and its Complications using Fuzzy Inference System”, International Journal of Emerging

Technology and Advanced Engineering, An ISO 9001:2008 Certified International Journal, Volume 6, Issue 7, July 2016.

13. Shazia Shaikh, Nazneen Akhter and Ramesh R. Manza “Application of Image Processing Techniques for Characterization of Skin Cancer Lesions using Thermal Images”, Indian Journal of Science and Technology, ISSN (Online) : 0974-5645, Vol 9(15), DOI: 10.17485/ijst/2016/v9i15/89794, April 2016.
14. Shaikh Adiba, Manza Ramesh, “Counting and Vote Distribution Mechanism in Preferential Election Using PEVM”, International Journal of Engineering Science and Computing IJESC (e ISSN-2321 -3361 and Print ISSN 2250 -1371), Volume 6 Issue No.5 May 2016.
15. Shaikh Adiba, Manza Ramesh, "Expanding Ports of Microcontroller Using Latches", International Journal of Engineering Science and Computing, ISSN 2321 3361 © 2016 IJESC, April 2016.
16. Prashant Borde, Ramesh Manza, Bharti Gawali, Pravin Yannawar, ‘vVISWa’ – A Multilingual Multi-Pose Audio Visual Database for Robust Human Computer Interaction, International Journal of Computer Applications (0975 – 8887) Volume 137 – No.4, March 2016.
17. Shaikh Shazia, Nazneen Akhter, Vrushali Gaike, R. R. Manza, “Boundary Detection of Skin Cancer Lesions Using Image Processing Techniques”, Journal of Medicinal Chemistry and Drug Discovery, Issue 2, Vol. 1, pp 381-388, 28 February 2016.
18. Yogesh M. Rajput, Ramesh R. Manza, Rathod D. Deepali, Manjiri B. Patwari, Manoj Saswade & Neha Deshpande “Design New Biorthogonal Wavelet Filter for Extraction of Blood Vessels and Calculate the Statistical Features”, **Springer**, Information Systems Design and Intelligent Applications, Volume 433 of the series Advances in Intelligent Systems and Computing. Series ISSN:2194-5357.
19. Patil Dnyaneshwari D, Manza Ramesh R, Gornale Sivanand S, “Clustering Based Cup to Disc Ratio Method for Diagnosis of Primary Glaucoma”, International Journal of Health Sciences and Research (IJHSR) 434-439 Vol. 6; Issue: 01 Pages: 1-652 (January 2016)
20. Rabiya Begum, Manza Ramesh R. “Detection of Cardiomyopathy using Support Vector Machine and Artificial Neural Network” International Journal of Computer Applications (IJCA) ISSN: 0975 – 8887, Volume 133 – No.14, January 2016.

21. Pradip Salve, Milind Sardesai, Ramesh Manza & Pravin Yannawar, "Identification of the Plants Based on Leaf Shape Descriptors", Springer, Advances in Intelligent Systems and Computing 379, DOI 10.1007/978-81322-2517-1\_10. Proceedings of the Second International Conference on Computer and Communication Technologies: IC3T 2015, Volume 1.
22. Pramodini A. Punde , & Ramesh R. Manza. "Future diagnostic in Glaucoma using eye tracking technology", International Journal of Modern Trends in Engineering and Research, ISSN No: 2349-9745, Volume 2, Issue 8 (08 - 2015).
23. V. R. Patil & R. R. Manza, "A Mehtod of Feature Extraction from Leaf Architecture" in International Journal of Advanced Research in Computer Science and Software Engineering, ISSN : 2277 128X, Volume 5, Issue 7, July 2015.
24. Kulkarni S. A, Borde P. L., Manza R. R., Yannawar P. L., "Analysis of Orthogonal Moments For Recognition Of Handwritten MODI Numerals", VNSGU Journal of Science and Technology, Vol.4,No.1, July, 2015, 36 - 43, ISSN:0975-5446.
25. Borde Prashant L., Kulkarni Sadanand A., Manza Ramesh R., Yannawar Pravin L., "Analysis of Visual Isolated Words Using Geometric and Fourier Features for Audio Visual Speech Recognition", VNSGU Journal of Science and Technology, Vol.4. No. 1, July, 2015 57 - 66, ISSN : 0975-5446.
26. Ramesh Manza, Yogesh Rajput, Majiri Patwari & Deepali Rathod, "Detection of Non-proliferative Diabetic Retinopathy Lesions using Multi Resolution Analysis and Classification the Lesions Using Multi Layered Perceptron", Handbook of Research on Natural Computing for Optimization Problems. IGB Global (**Accepted**)
27. V. R. Patil & R. R. Manza, "A Method of Feature Extraction from Leaf Architecture", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 7, July 2015 ISSN: 2277 128X.
28. Kiran D. Mundhe & R. R. Manza, "A Critical Review of Vascular Changes for Detection of Diabetic Retinopathy", Research Front, www.researchfront.in, Volume 3, No. 2, Apr. – Jun., 2015
29. Shaikh Adiba & Ramesh R. Manza, "Design of Preferential Electronic Voting Machine using AVR series Microcontroller", International Journal of Emerging Trends &

Technology in Computer Science (IJETTCS), Volume 4, Issue 3, May-June 2015 ISSN 2278-6856. IF 4.413.

30. Shaikh Adiba & Ramesh R. Manza, “The Calibration and Voting Process of Preferential Electronic Voting Machine using Microcontroller”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 3, Issue 7, July 2015, ISSN(Online): 2320-9801. IF 5.56.
31. Ramesh Manza, “Analysis and Detection of Diabetic Nephropathy Based on Basement Membrane of Capillaries in Kidney”, International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Volume 4, Issue 4 April 2015.
32. Sadanand Kulkarni, Prashant Borde, Ramesh Manza, Pravin Yannawar, “Offline MODI Character Recognition Using Complex Moments” Elsevier, Second International Symposium on Computer Vision and the Internet (VisionNet’15) (VisionNet-2015), Kochi.
33. Sadanand Kulkarni, Prashant Borde, Ramesh Manza, Pravin Yannawar, “Impact of Zoning on Zernike Moments for Handwritten MODI Character Recognition”, IEEE International Conference on Computer, Communication and Control, MGI Indore, 2015.
34. Sadanand Kulkarni, Prashant Borde, Ramesh Manza, Pravin Yannawar “Review on Recent Advances in Automatic Handwritten MODI Script Recognition”, International Journal of Computer Applications (IJCA) April 2015.
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93. R. R. Manza, " Decimated And Undecimated Wavelet Transforms", IEEE ICSIP'06, International Conference on Signal And Image Processing, Hubli (India), Vol. 1, PP.103-106, Dec-2006.
94. R. R. Manza "Uneven Background Extraction And Segmentation Of Good, Normal And Bad Quality Fingerprint Images", IEEE 14th International Conference On Advanced Computing & Communications, ADCOM2006, PP. 222-225, Dec. 20-23, 2006 IEEE Explorer, Impact Factor 6.911.
95. "E-Elections of University Authorities: Dr. Babasaheb Ambedkar Marathwada University, Aurangabad as per Maharashtra University Act 1994" in Proc. of National conference (CSIP) Organized by J. N. E. College, Aurangabad, 2006.
96. R. R. Manza, "Human Face Recognition for Digital Right Management: An Overview", in Proc. of National Conference on Emerging Trends in Information Technology, Baramati, Pune, September 2006.
97. R. R. Manza, "Need of Microarray Image analysis Technique: An Overview", in Proc. of National Conference on Emerging Trends in Information Technology, Baramati, Pune, September 2006.
98. R. R. Manza, "Role of Computer Science and IT in Bioinformatics", n Proc. of National Conference on Emerging Trends in Information Technology, Baramati, Pune, September 2006.

99. R. R. Manza, "SWT based Composite Method for Fingerprint Image Enhancement", IEEE 6th International Symposium on Signal Processing and Information Technology, Vancouver Canada, 27-30 August 2006. IEEE Explorer, Impact Factor 6.911
100. R. R. Manza, "Edge detection: Region splitting and merging using Quad-tree Decomposition", Proc. Of National conference. On CSIP, Aurangabad, PP. 38 April 2006.
101. R. R. Manza, "Quality Measures of Image Data Compression in Frequency Domain", International Conference on Systemics, cybernetics and informatics, PP. 830-835, Hyderabad, India. 4 to 8 Jan-2006.
102. R. R. Manza, "Fingerprint Image Segmentation: SE Approach", Proc. Of National Conference on Communication and Computational Techniques: Current and Future Trends, PP. 235-237, Dehradun, India Feb-2006.
103. "Detection of Information from OMR Sheet", in Proc. Of National conference (TS<sub>v</sub>GECA06) Organized by Govt. College of Engineering Aurangabad, PP. 27-28, 2006.
104. R. R. Manza, "Fingerprint Image Segmentation Using Structuring Element", 16th International Conference on Pattern Recognition, 20-24th August 2006, Hong Kong.
105. Vikas Humbe, R. R. Manza, SagarJambhorkar, S. S. Gornale, and K. V. Kale, "Mathematical Morphology Approach For Genuine Fingerprint Feature Extraction" in proc. of International Conference on Information Communication Technology IICT-2007, Dehradun India, PP.386-389 July 2007
106. Ashok Gaikwad, Vikas Humbe, R. R. Manza, SagarJambhorkar, and K. V. Kale, "Image analysis and edge detection using quadtree decomposition", International Conference on Information and communication Technology IICT-2007, PP 364-369 July 2007
107. Vikas Humbe, R. R. Manza, SagarJambhorkar, S. S. Gornale, and K. V. Kale, "Fingerprint Image Compression Using Retain Entergy (RE) And Number of Zeros (NZ): A Multi-Wavelet Approach", International Conference on Information and communication Technology IICT- 2007, PP. 56-60, July 2007
108. S. S. Gornale, Vikas Humbe, R. R. Manza, and K. V. kale, "Evaluation And Selection Of Wavelet Filters For De-Noising Medical Images Using Stationary Wavelet Transform (SWT)", International Conference on Systemics, cybernetics and informatics, Hyderabad, India. Jan- 2007
109. Sagar Jambhorkar, Vikas Humbe, R. R. Manza, S. S. Gornale, and K. V. Kale, "Uneven Background Extraction And Segmentation Of Good, Normal And Bad Quality Fingerprint

Images", IEEE 14th International Conference On Advanced Computing & Communications, ADCOM2006, PP. 222-225, Dec. 20-23, 2006.

110. Sagar Jambhorkar, R. R. Manza, S. S. Gornale, Vikas Humbe and K, V. Kale, "An Adaptive Algorithm For Segmentation Of Low Quality Fingerprint Image", IEEE ICSIP'06, International Conference On Signal And Image Processing, Hubli (India), Vol. 2, PP. 826-831, Dec-2006 )
111. S. S. Gornale, VikasHumbe, SagarJambhorkar, R. R. Manza, and K, V. Kale, "Noise Removal Of Medical Images Through Decimated And Undecimated Wavelet Transforms", IEEE ICSIP'06, International Conference on Signal And Image Processing, Hubli (India), Vol. 1, PP.103-106, Dec-2006.
- 112.K. V. kale, R. R. Manza, S. S. Gornale, , Prapti Deshmukh, and Vikas Humbe "SWT based Composite method Fingerprint Image Enhancement" IEEE ISSPIT2006, International Symposium on Signal Processing and Information Technology, PP. 162-168, Vancouver (Canada) 27-30 August, 2006.
- 113.Avinash Kadam, Ramesh Manza, Ganesh Manza and K.V. Kale, "Simulation as a Computer Technology for Physical Education and Sports Technology", in proc. of National Seminar on Physical Education & Sports Technology, Deogiri College Aurangabad, March 3-4,2006.
- 114.S. S. Gornale, VikasHumbe, R. R. Manza, and K. V. Kale, "Noisy and Noiseless Fingerprint Image Compression using Wavelet Packet (WP)", in proceeding of International Conference of Cognition and Recognition, B N Bahadur Management Institute, University of Mysore, Mysore, Karnataka, INDIA, PP. 885-890, 22 and 23 Dec. 2005.
- 115."Fingerprint Image Enhancement Using Composite Method", in proceeding of GSPx 2005 Signal Processing Conference, Santa Clara Conventional Center, Santa Clara, California USA 24- 27 October 2005.
- 116."Fingerprint Image Enhancement Using morphological Transform", in proceeding of GSPx 2005 Signal Processing Conference, Santa Clara Conventional Center, Santa Clara, California USA –24-27 October 2005.
- 117."Image de-noising by using gradient operators before compression to increase compression ratio", in proc of National Conf. on Advances in information communication technology (AICT),2005, Chalisgaon.
- 118."Decomposition for Fingerprint images", Proceeding in National Level Conference CCS-04 Aurangabad India 4th and 5th January 2004 PP. 56-64.

119. "Clustering fingerprint Image Classification of Biometric System Using Pyramid Decomposition", proceeding in National Level Conference CCS-04 Aurangabad India 4th and 5th January 2004 PP. 65.
120. "A Critical view of image enhancement in image processing", Proceeding in National Level Conference CCS-04 Aurangabad India 4th and 5th January 2004 PP. 73-77.
121. "Edge Detection in Cluster Computing", Proceeding in National Level Conference CCS-04 Aurangabad India, 4th and 5th January 2004 PP. 55.
122. "Role of Information Technology in Enhancing Socio-Economic Developments", International Conference on ICT for Education and Developments, Organized by All India Society for Electronics and Computer Technology and Dr. C. V. Raman University, Raipur, during 16-18 December 2004 at Bhopal.
123. "Performance analysis of Wavelets to Multiwavelets for Noisy image Compression", In proc. Of National conf. on Geometry, Analysis, Fluid Mechanics & Computer Applications, PP. 183- 189, December 2004, Kuvempu, Karanataka, India.
124. K.V. Kale and R.R. Manza, "Image Compression Techniques: A Review", National Conference On Seeding of Research of Computer Science Theory and Applications 22-24 May 2003.
125. "Data Compression Techniques in Biometric Systems for Fingerprint Recognition", National conference on Recent Trends in Information communication Technology & Applications 10th & 11th Oct. 2002, Organized by Dept. of Computer Science, North Maharashtra University Jalgaon(M.H.) and Loksevak Madhukarrao Chaudhari Amrut Mohatsav (75th Birth Anniversary) Committee, Jalgaon(M.H.).
126. "Human Face Recognition for Digital Rights Management: An Overview", Proceeding of National conference on Emerging Trends in Information Technology, VIIT Baramati 29 to 30 Sept 2006.
127. Manza R. R. "Electronic Education for E-Commerce", State level Conference on The Role of E-Commerce in Industries and Trade, Deogiri College, Aurangabad, 10 to 11 March 2002.
128. Manza R.R., Deshmukh P.D., Kale K.V. "Biomedical Image Compression of the Graphics Interchange Format (GIF) Using LZW Approach of the Dictionary Techniques" In 35th IETE MID-TERM SYMPOSIUM which will be held on 03-04 April 2004, IETE local chapter Nagpur.
129. Manza R.R., Deshmukh P.D., Kale K.V. "Lossless Compression of Biomedical Images Using Huffman Coding of 2-dimensional DWT and Uniform Scalar Quantization Process". In 35th IETE MID-TERM SYMPOSIUM which will be held on 03-04 April 2004, IETE local chapter Nagpur.

130. Arif Ali, Shaikh Abdul Hannan , Khandare M.M. , R.R. Manza, R. J. Ramteke, “COMPARATIVE STUDY OF TECHNIQUES FOR DATA HIDING”, IEEE Sponsored International Conference on Advances in computer Vision and Information Technology (IEEE-ACVIT-07)28th-30th November-2007 Aurangabad-India PP1400-1405 ISBN 978-81-898866-74-7©2007.
131. K. V. Kale, R R Manza, S S Gornale, Vikas Humbe, “The Role of ICT for Rural Areas: An Indian perspectives”, IEEE Sponsored International Conference on Advances in computer Vision and Information Technology (IEEE-ACVIT-07)28th-30th November-2007 Aurangabad-India PP1400-1405 ISBN 978-81-898866-74-7©2007.
132. Raut S.D.Manza R.R., “Review on Multispectral Palm print Identification”, COCSIT, at Latur ISBN NO: 978-81-920783-8-7.
133. S. S. Gornale, Ganesh Magar, Vikas Humbe, Sagar Jambhorkar, Ramesh Manza, K.V. Kale, “Mri Image Compression Through Homogenous Wavelet Filters Banks: A Multiwavelet Approach”.
134. Ramesh Manza, “Mathematical Morphology for Fingerprint Image Segmentation”

## Books

1. *"Computer Communication and Security"*, RenukaPrakashan, Aurangabad, March 2006.
2. *"Advances in Computer Vision and Information Technology"*, IKPublication New Delhi, Nov 2007.
3. *"Computer Vision and Information Technology Advances and Applications"*, IK Publication New Delhi, Dec 2009.
4. *"Knowledge Engineering"*, Narosa Publishing House, New Delhi, Jan 2011.
5. *"Understanding MATLAB"*, Shroff Publisher & Distributer Pvt. Ltd., Navi Mumbai, April 2013.
6. *"Computer Science, UG-CS-314 Computer Aided Graphics"*, Vrinda Publications, Jalgaon, June 2014.
7. *"Understanding GUI using MATLAB for Students"* Shroff Publisher & Distributer Pvt. Ltd., ISBN: 9789351109259, January 19, 2015.
8. *"Understanding Programming in Core Java"*, Chinmay Prakashan, ISBN: 936459374-5, Aurangabad.
9. *"Understanding Digital Image Processing Using MATLAB"*, Shroff Publisher & Distributer Pvt. Ltd., ISBN 13: 978-93-5213-286-7, January, 2016.
10. *"Understanding Bio-Medical Image Processing Using MATLAB"*, Shroff Publisher & Distributer Pvt. Ltd., ISBN 13: 978-93-5213-285-0, January, 2016.

11. **“Understanding Programming Aspects of Pattern Recognition Using MATLAB”**, Shroff Publisher & Distributer Pvt. Ltd., ISBN: 9789352133307, April 21, 2016.
12. Advanced C-II A Notery Handbook ASIN : B09VYDLFNB, Publication Date: 17 March 2022, Kindle Edition
13. **Open Source tool for E-Content , Development, Teaching, Learning and Evaluation ISBN10 : 9355424086 ISBN-13 : 978-9355424082** Shroff Publishers & Distributors Pvt. Ltd.; First Edition (29 May 2023)
14. Proceeding of the first International Conference on Advance in Computer Vision and Artificial Intelligence Technologies(ACVAIT 2022) **Publisher : Atlantis Press (26 August 2023) ISBN-10 : 9464631953 ISBN-13 : 978-9464631951**

#### Chapters in the Book no 4

Rupali Patil, Hansraj Patil, Ramesh Manza, “Human Computer Interaction in Computer Aided Learning”, Knowledge Engineering, Narosa Publishing House, New Delhi, Jan 2011, ISBN: 978-81-8487-123-4, pp. 123-128

#### Project Completed:

1. Minor Research Project on **“Development of Biomedical Monitoring System for Diabetes Using Nanorobotics”**, 2008-09.
2. **“Development of Color Image Segmentation and Filtering Techniques for Early Detection of Diabetic Retinopathy”** Sanctioned by UGC New Delhi (Rs. 11,73,300/-) (F. No. 41-651/2012 (SR)) 2012-2015.

#### Projects Ongoing:

1. **“Development of Multi Resolution Analysis Technique for Early Detection of Non-Proliferative Diabetic Retinopathy without using Angiography”**, Sanctioned by DST New Delhi (Rs. 23,04,000/-)(F. No. SERB/F/2294/2013-14).
2. Diabetic Retinopathy using image enhancement and segmentation technique to avoid Angiography.
3. Diabetic level monitoring based on blood flow pattern without taking blood samples.
4. MEMS for Retina Prosthesis to replace Retina and Regenerative of Retina using NanoTechnology
5. Design of Preferential Electronic Voting Machine
6. Confocal Laser Scanning Ophthalmoscope Image Analysis
7. Analysis of Medical Images from (STARE, DRIVE, DIRECT, DIARETDB1, VARPA, ISI and RISA)
8. Detection and Diagnosis of diabetic Level from BP, Blood Color, Respiration, Contact Lens and Sensor Belt
9. Design and Development of Gabor Milt-resolution Wavelet filter for Tuning specific frequency,



Enhancement, Noise Removal, Capture Leakage Area and Smoothing

**10.** JSRT Chest Radiography database Analysis

**11.** DDSM Digital Mammogram Database Biomedical Image Analysis for Diagnosis of Malignant Tumor

**12.** Optical Coherence Tomography image Analysis of Retina

13. Palm Vein Biometric (Wallet Vein Scanner Fujit) for Diagnosis of Glucose level from Artery and Vein condition
14. Palm Vein Biometric (Wallet Vein Scanner Fujit) for Diagnosis Artery and Vein condition
15. Diagnosis of Diabetic Retinopathy in non-diabetic Patient
16. MSER and SURF Feature for Diagnosis and Analysis of Diseases from Medical Images.

### Designed Tools (Available in MATHWORK)

Sr. No.	Name	Link
1.	Extraction of Hemorrhages	<a href="#">Link</a>
2.	Retinal Blood Vessels Extraction	<a href="#">Link</a>
3.	Extraction of Exudates	<a href="#">Link</a>
4.	Detection of Microaneurysms	<a href="#">Link</a>

### List of Students

#### Ph. D Students

##### 1) Awarded

Sr. No.	Name of Student	Research Topic	Date of Registration	Date of Completion
1.	Mr. Babasaheb Bhalerao	Fingerprint recognition in Noisy Environment	June 2012	12-Feb-2015
2.	Mr. Gaikwad Bharatratna	Video Scene segmentation to separate Script.	June 2012	18-April-2015
3.	Mr. Bhosale Narayan	Design and development of wavelet filter to remove noise from remote sensing Images.	June 2012	27-June-2015
4.	Ms. Bawiskar Shobha	Design of Biomedical Nano Sensor Modeling using COMSOL technology for detection of Glucose Level from Blood flow Pattern.	June 2012	11-July-2015
5.	Ms. Manjiri Patwari	Automatic detection and diagnosis of diabetic retinopathy symptoms using color image segmentation.	June 2012	26-Sep-2015

6.	Ms. Kiran Mundhe	Early Detection of Non-Proliferative Diabetic Retinopathy Using Multi Scale Resolution Analysis Techniques	July 2012	18-11-2015
7.	Ms. Shaikh Adiba	Design and Development of electronic voting machine for preferential voting system.	June 2012	03-Sep-2016
8.	Ms. Vandana Patil	Study of Plant Species Classification Based on Digital Morphological Features of Leaf.	July -2013	09-Dec-2016
9.	Ms. Anupriya Kamble	Design and Development of Novel Pattern Recognition Based Expert System for Diagnosis of Diabetes and Prescription of Drugs.	July-2017	10-April-2021
10.	Ms. Rabiya Begum Mohd Saleem	Design and Development of Enhancing ECG Monitoring System.		03-April-2021
11.	Mr. Ambilwade Revindra	An Expert System for Diagnosis & Recommendations for Medication & Curative Treatment of Diabetes using Soft Computing Techniques.	June -2012	10-May-2021
12	Ms. Shazia Shaikh			12-May-2021

## 2) Thesis Submitted

Sr. No.	Name of Student	Research Topic	Date of Registration

## 3) Working

Sr. No.	Name of Student	Research Topic	Date of Registration
1.	Mr. Ambilwade Revindra	An Expert System for Diagnosis & Recommendations for Medication & Curative Treatment of Diabetes using Soft Computing Techniques.	June 2012

2.	Mr. Ravindra Jagtap	Analysis of Fundus Images For Diagnosis of Diabetic Retinopathy Using Statistical Techniques.	July -2013
3.	Mr. Yogesh Rajput	Design and Development of New Wavelet Filter for Detection and Grading of Non-Proliferative Diabetic Retinopathy Lesions	Dec-2014
4.	Ms. Deepali Rathod	A Novel Approach to Design New Wavelet Filter for Extraction of Retinal Blood Vessels to study vascular abnormality and for Classification of Non-Proliferative Diabetic Retinopathy Lesions	Dec-2014
5.	Ms. Dnyaneshwari Patil	Early Detection of Primary Open Angle Glaucoma Using Fuzzy Based Classification Techniques	Dec-2014
6.	Mr. Pravin Sarpate	Design & Development Of Multimodal Biometric System For Human Authentication Using Face And Voice Modalities	Dec-2014

7.	Ms. Sonali Gaikwad	Design and Development of Novel Classifier for Diabetic Retinopathy Features Database Classification	Dec-2014
8.	Mr. Amol Ganorkar	Design Of Angiogenesis In Cardiovascular Disease Images Using Ultrasound Targeted Micro Bubble Destruction Images	Dec-2014

### Ph. D Ongoing Students

Sr .No	Name
1.	Chetan Pattebahadur
2.	Sushil Gavhale
3.	Monali Rathod
4.	Deepali Lohare
5.	Manoj Mhasake
6.	Pawan Kambale
7.	Sachin Chavan
8.	Kakasaheb Nikam
9.	Ali Alkabrani
10.	Ms Komal Ankushe ( BARTI)

### Ph D Targeted in 2021

Sr .No	Name
1.	Sagar Vakhare
2.	D R Mane Sir student Ms Bhosale

## M.Phil. Ongoing Students

<b>Sr .No</b>	<b>Name</b>
1.	Sujata Ambhore
2.	Sonali Gunjal
3.	Sheeba Khan
4.	Mengade Surekha
5.	Meraj Begum Shaikh Ismail
6.	Sheetal Katkade
7.	Sachin Chavan
8.	Refer by KVK Reema Lahane
9.	Deepali Jadhav ref by KVK
10.	Neha Chavan ref by KVK

## Co-guide

<b>Sr .No</b>	<b>Name</b>
1.	Anjali Shelkikar Latur- Guide Vikash Humbe
2.	Naeem Mohammad

## Ph. D Foreign Students

Sr. No.	Name of Student	Research Topic	Date of Registration	Status
1.	Mr. Amjad Jumaah Frhan	Development of novel Classification Techniques to Classify Normal and Non-Proliferative Diabetic Retinopathy.	May 2012	Working
2.	Mr. Osamah Waleed Allawi	Design of New Wavelet Filter for Detection and Diagnosis of Proliferative Diabetic Retinopathy.	May 2012	Working

## M. Phil Students (Awarded)

Sr. No.	Name of Student	Research Topic	Year
1.	Ms. Swapnaja Rangnath Gadre	Centering and Realignment of 3D MRI Images using Genetic Algorithm.	2008
2.	Ms. Aparna Vinayak Kulkarni	Enhancement of mammographic images for medical diagnosis by using gray level transformation.	2008
3.	Ms. Jadhav Mukti Eknathrao	Detection of Drug Resistant Tuberculosis Bacteria Using Microarray analysis.	2008
4.	Ms. Seema Wadte	Cognitive Science a Methodological Framework for Social Development.	2008
5.	Mr. Aqueel Ahmed	Representation of Graphical Data in GIF.	2008
6.	Ms. Vaishali Kulkarni	Digital Rights of Documents to Digital Signature.	2008

7.	Mr. Shaikh Naeem Hamid	X-ray Image data analysis for diagnosis of Bone Fractures.	2008
8.	Mr. Syed Mahedi Arefoddin	Computer Assisted 3 Dimensional surgical planning.	2008
9.	Mr. Nimbhore Sunil	Study of various protocols used in distributed system & parallel Systems.	2008
10.	Mr. Abdul Hannan	Association Rules of Data Mining techniques for verification of medicine contents related to CardiacProblems.	2009
11.	Ms. Rupali P. Patil	A case study on Computer Aided learning to improve primary education in rural area.	2009
12.	Ms. Priya Dilip Chaudhari	Source Code Analyzer To Analyze Program Based On Syntax Tree Approach.	2009
13.	Ms. Pohnerkar Sonali Vasantrao	Edge Detection in Color Image by Applying Gradient Operations	2009
14.	Ms. Shubhashree S. Savant	Color Edge Detection Using Gradient.	2010
15.	Mr. Satish Zende	Use of IT Applications in Administration of University and Colleges in Marathwada Region and MKCL's Innovative	2013
16.	Ms. Priti Sodmise	Multi Biometric Wavelet Based Fusion Technique for Personal Identification	June 2012
17.	Sagar Wakhare		
18.	Sujata Satpute		22 Feb 2024



## M. Phil Students

### 1) Awarded

Sr. No.	Name of Student	Research Topic	Date of Registration
1.	Mr. Kayte Sangramsing	Design and Development of Non-proliferative Diabetic Retinopathy Detection Technique using Image Features Extraction Techniques	June 2011

2.	Mr. Vijay Shirale	Design and Development of Local Feature Extraction Technique for Diagnosis of Disease in Chest Radiography Images	June 2012
3.	Ms. Vaishali Shinde	Diagnosis of vision related Diseases using Confocal Laser Scanning Ophthalmoscope Image Analysis.	June 2012
4.	Ms. Deepali Rathod	Retinal Vessel Segmentation using Match Filtering	June 2013
5.	Mr. Yogesh Rajendra	Study and Interpretation of Terrestrial Laser Scanning for 3D Modeling of DCSIT	June 2013
6.	Mr. Yogesh Rajput	Detection of Non-Proliferative Diabetic Retinopathy using Multi Resolution Analysis	June 2014
7.	Ms. Gangadevi Bedke	Development of secondary glaucoma diagnosis technique using nerve fiber layer analysis.	June 2014
8.	Ms. Dnyaneshwari Patil	Development of primary glaucoma diagnosis technique using optic disc and cup ratio	June 2014
9.	Mr. Jaypalsing Kayte	Analysis of Cardiac MRI to Find out Cardiovascular Disease using Automatic Segmentation Techniques	June 2014
10.	Mr. Manoj Mhaske	Analysis and detection of diabetic retinopathy in retinal images using image features extraction techniques	June 2011
11.	Ms. Poonam Rokde	Early detection of Non-Proliferative Diabetic Retinopathy using dual tree complex wavelet transform	June 2013
12.	Ms. Monali Rathod	Detection of Diabetes and early detection of Peripheral Neurological Disorder using non-invasive thermal image processing technique on Plantar Foot	June 2015 (Award Date: 06-10-2016)
13.	Ms. Rabiya Begam Mohd Saleem	Detection of Cardiomyopathy Using NeuroFuzzy Logic	June 2015 (Award Date: 06-10-2016)
14.	Ms. Shaziya Shaikh	Thermography for analysis of skin thermal images for diagnosis of skin cancer	June 2015 (Award Date: 06-10-2016)

## 2) Working

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Research Topic</b>	<b>Date of Registration</b>
1.	Ms. Anupriya Kamble	Classification of Insulin Dependent Diabetes Mellitus	June 2016
2.	Mr. Sushil Gawhale	Development of Penetration Testing Technique for Windows & Linux Networks in Virtual Environment	June 2016

## M. Tech Students (Awarded)

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Research Topic</b>	<b>Year</b>
1.	Dr. Rakesh Ramteke	Automated Analysis of Sperm Motility and Morphology	June 2011
2.	Mr. Harish Khodke	Pattern Matching and analysis of Handwritten Digits	May 2013
3.	Dr. Bharatratna Gaikwad	Image Scene Segmentation and Recognition on Texture Base Approach	June 2011

## Project Fellow

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Major Research Project</b>	<b>Year</b>
1.	Mr. Yogesh M Rajput	Development of Color Image Segmentation and Filtering Technique for Early Detection of Diabetic Retinopathy	June 2012 To June 2015
2.	Ms. Deepali D. Rathod	Development of Multi Resolution Analysis Technique for Early Detection of Non-Proliferative Diabetic Retinopathy without using Angiography	June 2013 To June 2017

### **Rajiv Gandhi National Fellowship (RGNF) For M. Phil.**

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Research Topic</b>	<b>Date of Registration</b>	<b>Status</b>
1.	Ms. Anita Khandizhod	Design and Development of Wavelet Filter for Feature Extraction of Multispectral Palmprint	June 2012	Completed
2.	Ms. Poonam Rokde	Early detection of Non-Proliferative Diabetic Retinopathy using dual tree complex wavelet transform	June 2013	Completed
3.	Ms. Anupriya Kamble	Classification of Insulin Dependent Diabetes Mellitus	July 2015	Working
4	Mr. Chetan Pattebahadur	Design Novel Detection Classification Grading Technique for Early Diagnosis of Diabetic Maculopathy	June-2016	Completed

### **Maulana Azad National Fellowship (MANF) For M. Phil.**

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Research Topic</b>	<b>Date of Registration</b>	<b>Status</b>
1.	Ms. Rabiya Begam Mohd Saleem	Detection of Cardiomyopathy Using Neuro Fuzzy Logic	2015 (Award Date: 06-10-2016)	Completed
2.	Ms. Shaziya Shaikh	Thermography for analysis of skin thermal images for diagnosis of skin cancer	2015 (Award Date: 06-10-2016)	Completed

### **Dr. B. A. M. U. Fellowship For Ph. D.**

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Research Topic</b>	<b>Date of Registration</b>	<b>Status</b>
1.	Ms. Shaikh Adiba	Design and Development of electronic voting machine for preferential voting system.	June 2012	Completed
2.	Mr. Bhosale Narayan	Design and development of wavelet filter to remove noise from remote sensing Images.	June 2012	Completed

### **BARTI Fellowship For Ph. D.**

<b>Sr .No</b>	<b>Name</b>
1.	Sushil Gavhale
2.	Manoj Mhasake
3.	Pawan Kambale
4.	Komal Ankushe

### **BARTI Fellowship For Mphil.**

<b>Sr .No</b>	<b>Name</b>
1.	Sujata Ambhore
2.	Sujata Satpute
3.	Reema Lagane
4.	Dipali Jadhav

### **Sarathi Fellowship for Mphil.**

<b>Sr .No</b>	<b>Name</b>
1.	Sonali Gunjal
2.	Chavan Neha
3.	Sheetal Katkade

### **Patents Granted:**

1. Grant of 02 Australian Patents with Patent number 2020100878 on \*A non-contact type thermal imaging system\* and Patent number: 2021100060 on “A PORTABLE REAL TIME ECG MONITORING SYSTEM” on his record.
2. Grand of 01 Indian patent on “APPARATUS FOR MEASUREMENT OF RR INTERVALS AND A SYSTEM THEREOF” with patent no: 508322
3. Hakim Abdulghaffar Abdulwahab Abdo 2. Dr. Shobha Kamalakar Bawiskar 3.Dr. Ramesh Manza. “Device to Validate Handwritten Bank Cheque” The Patents Office Government of India in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.”
4. 1.Karbhari Kale 2.Ramesh Manza 3.Pravin Yannawar 4.Prashant Borde “Apparatus For Measurement Of Rr Intervals and A System Thereof” The Patents Office Government Of India.

**Date:**