

## RESUME

Name of Teacher : **DR. MRS. RAUT RANJANA DINKAR**

Nationality : Indian

Date of birth : 24/01/64, Domicile : Maharashtra (Birth place Wardha)

Name of Department : P. G. Deptt. of Applied Electronics,  
Faculty of Science and Technology,  
Sant Gadge Baba Amravati University,  
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Designation : PROFESSOR

Qualification : B.E. (Instrumentation) Sum.1986, Govt. COE, Pune, Pune University.  
M.E. (Electronics) Sum.2003, Govt.COE Amravati, SGB Amravati University.  
M.S.C.I.T. (M.S.B.T.E.) Aug 2002,  
Ph.D. (Electronics-Engg), Faculty of Engg. & Tech., Vide Notification Dt. 13-05-2010  
Designing Optimum, Intelligent Clinical Decision Support System for Cardiac  
Arrhythmias and Heart Diseases: A Neuro Computing Approach.

**Teaching Experience at Industry, University/ Engineering College Level:****Total Experience**

- 1) Industrial 45 days Hindustan Antibiotics, Pimpri, Pune -18
- 2) Teaching 1<sup>st</sup> July 1986 to till date, **35 years**

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|-----|---|---|--|
| I   | Lecturer                                | : | -From <b>22- 08- 86 to 30- 06- 87</b><br>College of Engg., Sevagram (Wardha)<br>-From <b>01- 07- 87 to 06- 01- 95</b><br>Y. C. College of Engineering, Nagpur<br>-From <b>07- 01- 95 to 30- 06- 95</b><br>P. G. Dept. of Applied Electronics,<br>SGB Amravati University, Amravati |
| II  | Lecturer (Senior Scale)                 | : | From <b>01- 07- 95 to 30-06-2000</b><br>SGB Amravati University, Amravati  |
| III | Lecturer -Selection grade               | : | <b>01-07-2000 to 13-01-2004</b><br>SGB Amravati University, Amravati   |
| IV  | Associate Professor/<br>Reader Promoted | : | From <b>14-01-2004 to 12-05-2010</b> . PGTD AE,<br>SGB Amravati University, Amravati   |
| V   | Professor                               | : | From <b>13-05-2010</b>   |

3) **Administrative:**

- |      |  |   |   |
|------|--|---|---|
| I]   | <b>I/C CIC</b>   | : | From 15-05-2010, Central Instrumentation Cell,                    |
| II]  | <b>Coordinator IMF</b>   | : | From 02 July 2012, Instrument Maintenance Facility                |
| III] | <b>I/C HEAD</b>  | : | Worked as I/C Head 01-25 Jan.2005 and whenever charge<br>handover |
| IV]  | Prepared proposals for MIHAN PROJECTS -: Such as PG Diplomas in Biomedical equipments<br>repair and maintenance, Aviation, Biomedical Instrumentation, VLSI and embedded systems and also<br>submitted two papers to ISRO. |   |   |

**Major Selections**

- 1) Selected twice through MPSC for the post of Lecturer in Instrumentation at Government College of Engineering, Pune (In year 1987 & 1991)
- 2) Selected as Trainee Engg. (R&D)-: Hindustan Antibiotics Ltd, Pimpri Pune 411018- Sum 1986.

**BE Projects**

- 1) Anaerobic test timer (Sponsored by B.J. Medical College, Pune)
- 2) Computerized Bio signal Simulator (Sponsored by MAEP Biomedical Center, Pune)

**Seminar Topic**

Microprocessor Based Combustion Control System in Boiler Instrumentation (Thermax, Pune)

**ME Dissertation**

PC Based Diagnosis of Heart Diseases, summer 2003 (Successful Installation at PD Medical College and Research Centre, Amravati.)

**Specific field of Research**

Biomedical Electronics, Machine Intelligence, Process Instrumentation, Advanced Instrumentation, Tele-medical Applications, Soft Computing, Neural Network, Machine Learning, Artificial Intelligence, Image Processing, Mobile Computing, Embedded system, Agriculture Electronics, Wireless communication and Internet-of-Things

**Research Experience:** 21 years

**Patents Published:**

Patent Status	Patent Title	Patent No.	Date	Level	API Score
Published	AUTOMATED DISCISION SUPPORT SYSTEM (DSS) FOR THYROID MALIGNANCY DETECTION THROUGH USG	201721046249A	05/01/2018	National	20
Published	MACHINE LEARNING CLASSIFICATION TO ANALYSE PROGNOSTIC VALUE FOR CURRENT IMAGING BIOMARKER IN EYE DISEASES	201921049435	20/12/2019	National	20
Published	CONCEPTUAL FRAMEWORK OF ARTIFICIAL INTELLIGENCE IN HUMAN RESOURCE	202111020974 A	14/05/2021	National	20
Published	AI BASED METHOD OF EXAMINATION THE STATE OF LUNGS WITH SUSPECTED COVID-19 PATIENTS	202111023041 A	04/06/2021	National	20
Applied	NEEM TREE BASED TOOTH BRUSH(DESIGH PATENT)	-	-	-	-
Applied	DOUBLE HELIX ANTENNA (DESIGN PATENT)	343492-001	15/05/2021	National	-
Applied	SURGICAL HELMET (DESIGN PATENT)	342910-001	30/04/2021	National	-

**Awards:**

Sr No	Teacher Name	Name Of Award	Award Date	Award Level
1	SAU.R.D.RAUT	Best Paper Award Letter of Appreciation & Memento FIRST PRIZE IN ORAL PRESENTATION	20/01/2019	International
2	SAU.R.D.RAUT	First prize in oral presentation International conference	03/06/2017	International
3	SAU.R.D.RAUT	Best Paper Award Letter of Appreciation & Memento FIRST PRIZE IN ORAL PRESENTATION	24/04/2017	International

4	SAU.R.D.RAUT	BEST PAPER AWARD AT THIRD INTERNATIONAL CONFERENCE ON SMART TRENDS FOR COMPUTING AND COMMUNICATIONS	24/01/2019	International
5	SAU.R.D.RAUT	BEST PAPER AWARD AT THIRD INTERNATIONAL CONFERENCE ON SMART TRENDS FOR COMPUTING AND COMMUNICATIONS AT BANGKOK	25/01/2019	International

**Ph. D Students Awarded / Pursuing:**

S.N.	Name of Scholar	Title	Awarded DATE/ NOTIFICATION NUMBER	Name of Supervisor
1	Mrs. Sujata S Kulkarni	Designing Optimal Multimodal Soft Biometrics Authentication System	22/03/17 RTMNU/PHD CELL/4/2517//SN- / DT 22/03/2017	DR. RAUT R. D.
2	Mr. Bandu Nandedkar	Performance evaluation for wireless sensor network for parking guidance system and its optimization	15/06/2018 RTMNU/PHD CELL/06/352/SN- 10 dt.15/06/2018	DR. RAUT R. D.
3	Mr.Sanjeev Kumar Srivastava	Study and analysis of ad-hoc wireless network system to maximize the performance of throughput capacity	16/ 08/ 18 RTMNU/PHD CELL/09/455/sn-16, dt 16/08/2018	DR. RAUT R. D.
4	Ms. Wrushali Madhukar Mendre	Design and development of intelligent decision support system for thyroid diseases	13/11/2018 RTMNU/PHD CELL//11/614/SN-49/DT 13/11/2018	DR. RAUT R. D.
5	Mr. Vineet Kumar Goyal	Study of Adaptive Public Transport System using Wireless Communication	12/12/2018 MJRPU/RESEARCH/2018/4130/SN-1 DT 12/12/2018	DR. RAUT R. D.
6	Mrs. Geeta M. Kadu	Studies on optimal decision support system for liver diseases using artificial neural network and statistical techniques	18/07/2019 SGBAU/PHD CELL/115/2019/DT. 18/07/2019	DR. RAUT R. D.
7	Miss Gauri Borkhade	Development of intelligent decision support system for eye diseases using soft computing approach	13/08/2020 SGBAU/PHD CELL/08/2020/DT. 13/08/2020	DR. RAUT R. D.
8	Ms. Sanjeevani Bhande	Development of knowledge-based system for interpretation of brain disorders using soft computing approach	01/09/2020 RTMNU/PHD CELL/ 6 /922/SN-18/DT 01/09/2020	DR. RAUT R. D.
9	Mr. Anant Raut	-	On going.	DR. RAUT R. D.
10	Mr. Pavan Falke	-	On going.	DR. RAUT R. D.
11	Miss. Amruta Ghute	-	On going.	DR. RAUT R. D.
12	Mr. Sudhakar Sarkate	-	On going.	DR. RAUT R. D.
12				

**Research Publications :****A) Published in Refereed, Peer reviewed International/ National Journals:**

1. Raut R. D., Designing Menu Driven ECG Interpreter for Cardiac Disorders, *Amravati University Research Journal*, ISSN- 0973-9173, Volume 01, Issue 10, July 2004, pp. 43-46.
2. Raut R. D. & Dudul S. V., Performance of MLP Neural Network Technique for Multi-Feature, Multi-Class Cardiac Arrhythmias, *International Journal of Innovative Research in Computer and Communication Engineering* , Vol. 3, Issue 1, November 2007, ISSN (Print): 2320-9798, Indexed by-DOAJ, Getcited, Scopus, Proquest
3. Raut R. D. & Dudul S. V., Arrhythmias Classification with MLP Neural Network and Statistical Analysis, *International Journal of Engineering Research and Applications, (IJERIA)*, ISSN 0974-1518, Volume 01, Issue 6, October 2008, pp. 211-222, Impact factor 0.5090, Indexed by- EBSECO (USA), CAS, ISI, Proquest.
4. Raut R. D. & Dudul S. V., One-Year Mortality Prognosis in Heart Failure: A Neural Network Approach Based on Echo cardio graphic Data, *International Journal of Computer, Mathematical Sciences and application (IJCMSA)*, Serial Publications, vol. 2, no. 4, Oct-December 2008, ISSN 0973-6786, pp. 389-403, Impact factor 0.503, Indexed by- Index Copernicus International, Zen f math, Scopus, Elsevier bibliography
5. Raut R. D. & Dudul S. V., MLP Neural Network based clinical decision support system for Cardiac Arrhythmias, *International Journal of Computer, Mathematical Sciences and applications (IJCMSA)*, Serial Publications, vol. 2, no. 4, Oct-December 2008, ISSN 0973-6786, pp. 357-366, Cited by 10, Indexed by-CAP, EI database, Scopus, Elsevier bibliography
6. Raut R. D. & Dudul S. V., Study of effect of dimensionality reduction, error Norms and cross entropy criterion on MLP neural network classifier for cardiac arrhythmias, *International Journal of Mathematical Sciences and*

- Engineering application (IJMSEA)*, ISSN-0973-9424, Volume 2, Issue 4, December 2008, pp. 209-224, Cited by 11, . Indexed by Maths Sci Net, Ulrich, EBSECO, UDL, Math Review.
7. Raut R. D. & Dudul S. V., Classification of arrhythmia from analysis of the ECG Signal, *International Journal of Research and Industrial Application (IJERIA)*, ISSN 0974-1518, Volume 2, Issue 1, January 2009, pp. 299-311, Indexed by- EBSECO (USA), CAS, ISI, Proquest.
  8. Raut R. D. & Dudul S. V., Echocardiographic Classification of Heart Diseases using Generalized Feed Forward Neural Network, *International Journal of Advanced Research in Computer Engineering (IJARCE)*, Global Publications, Jan-June 2009, vol. 3, no. 1, ISSN 0974-4320, pp. 79-85, Indexed. Cited by 13, Indexed by CAS, DOAJ, UDL, Index Copernicus International
  9. Raut R. D. & Dudul S. V., Outcome prediction for critical patients under intensive care using PCA NN and dimension reduction analysis, *International Journal of Computer Applications in Engineering Technology and Sciences (IJ-CA-ETS)*, ISSN 0974-3596, April-September 2009, vol.1, issue 2, pp. 466-474, Indexed by CAS, DOAJ, Elsevier bibliography
  10. Raut R. D. & Dudul S. V., Classification Capacity of a Self Organizing Feature Map Neural Network with 2D Doppler Echocardiography, *International Journal of Computer Applications in Engineering Technology and Sciences (IJ-CA-ETS)*, ISSN 0974-3596, April - September 2009, vol.1, issue 2, pp. 665-673, Indexed by-cite factor, journal index directory, DOAJ, CAS
  11. Raut R. D. & Dudul S. V., Design and Performance Analysis of MLP NN based Binary Classifier for Heart Diseases, *Indian Journal of Sciences and Technology*, ISSN 0974-6846, vol.2 , issue 8, August 2009, pp. 43-48, Indexed by-ISI, Thomson Reuters, Elsevier
  12. Raut R. D. & Dudul S. V., Binary Classification of Cardiac Arrhythmias using Optimal MLP Neural Network, *Journal of the Instrument Society of India*. September 09, vol. 39, No. (03), ISSN: 0970-9983, pp. 204-208, Indexed.
  13. Raut R. D. & Dudul S. V., Patient's survival classification from echocardiogram using MLP neural network, *International Journal of Computer Applications in Engineering Technology and Sciences (IJ-CA-ETS)*, ISSN 0974-3596, October. 2009, vol.1, issue 3, pp. 104-111, Indexed by- Scopus, Elsevier bibliography, ULRICH, Google Scholar
  14. Raut R. D. & Dudul S. V., Determination of Long-Term Outcome in Patients with Coronary Artery Disease using an Artificial Neural Network, *International Journal of Computer Sciences and applications, (IJCSA)*, ISSN 0974-1003, Nov-December 2009, vol.2, issue 2, pp. 81-90, Cited by 4. Indexed by-CAP, EI database, Scopus, DRJI, Getcited
  15. Raut R. D. & Dudul S. V., An Empirical Comparison of SOFM NN and Dimensionality Reduction using Principal Component Analysis to the prediction of Patients Survival, *International Journal of Algorithms, Computing and Mathematics (IJACM)*, ISSN 0974-3367, vol.2, issue 4, November 2009, pp. 39-52, Indexed by-Electronics journal library, CAP, EI database, Scopus, DRJI, Getcited
  16. Raut R. D. & Dudul S. V., Intelligent Diagnosis of Heart Diseases using Neural Network Approach, *International Journal of Computer applications, (IJCA)*, ISSN 0975-8887, February-March 2010, vol.1, issue 2, pp. 117-122, Cited by 14. Indexed by- EBSCO, CSA, Proquest, Index Copernicus International, Computer Science Directory, OAlster database, Tech research database, Cited by 20.
  17. Raut R. D., Akashe S. & Sharma s., A Low Voltage and Process Variation Tolerant SRAM Cell in 45-Nm CMOS, *International Journal of VLSI Design*, Vol. 2, Issue (1), Jan-June 2011, ISSN: 2229-3167, Impact Factor 0.4, Pp. 91-96. Indexed.
  18. Raut R. D., Leakage Current Minimization in Deep Submicron Conventional Single Cell SRAM, *International Journal of Machine Intelligence and Applications*, Vol. 2, Issue (1), Jan-June 2011, ISSN:0976=6227, pp. 1-4, Indexed.
  19. Raut R. D., Improved write margin for 90 NM SOI 7T SRAM, *International Journal of Machine Intelligence and Applications*, Vol. 2, Issue (1), Jan-June 2011, ISSN:0976=6227, pp. 5-10, Indexed.
  20. Raut R. D., SOI 7T SRAM with enhanced read stability and improved write margin, *National Journal of SCI TECH Research*, Vol. 2, Issue (2), July 2011, ISSN:0974=9780 pp.06-11, Indexed.
  21. Raut R. D., Leakage power Minimization in Deep Submicron, *National Journal of SCI TECH Research*, Vol. 2, Issue (2), July 2011, ISSN:0974=9780 pp. 12-17, Indexed.
  22. Raut R. D., Low Leakage Current CMOS SRAM, *National Journal of Instrument society of India*, Vol. 41, Issue (3), September 2011,ISSN:0970=9983, pp. 152-154, Indexed.
  23. Raut R. D. & Vineet Goyal, Design and Implementation of Adaptive Public Transport System with Low Cost Wireless Link and Specialized Protocol, *International Journal of Computer Science and Communication*, Vol. 3, No.1, January-June 2012, ISSN:0973-7391, pp. 121-124, Impact Factor 1.85, Indexed.
  24. Raut R. D. & Vineet Goyal, Low Cost Communication Link for Intelligent Public Transport System with Dynamic Protocol , *International Journal of Communication and Networking System*, Volume 01, Issue 01, January-June 2012, pp. 57-63, ISSN:2278-2427, Indexed by- Computer Science Directory, Cross Ref, cite factor, Google Scholar.
  25. Raut R. D. & Sanjeev Srivastava, Study and analysis of the performance of capacity of ad-hoc wireless networks, *International Journal of Advances in Electronics engineering* , Vol. 2, No.2, March 2012, ISBN:

- 978-981, e-ISSN: 2278-215x, pp. 77-81, Indexed by- SEEK Digital library, ISI, Thomson Impact Factor 1.770, Cited by 6.
26. Raut R. D. & Kulkarni S., Identification system using Finger Knuckle Features, *International Journal of Advances in Electronics engineering*, Vol. 2, Issue 2, March 2012, p-ISSN: 978-981, e-ISSN: 2278-215x, pp.125-127, Indexed by- SEEK Digital library, ISI, Thomson. Cited by 4.
  27. Raut R. D. & Vineet Goyal, Public Transport Bus Arrival Time Prediction with Seasonal and Special Emphasis on Weather Compensation changes using RNN, *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 1, Issue 6 August 2012, pp. 378-382, ISSN: 2278-1021, Indexed. Impact Factor 2.524, Indexed by- Index Copernicus International, Computer Science Directory, Cross Ref, cite factor, Google Scholar.
  28. Raut R. D. & Sanjeev Srivastava, Study and Analysis of Characterizing the Capacity of Wireless Ad Hoc Networks, *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 1, Issue 8, pp. 500-507, ISSN: Online 2278-1021ISSN (Print): 2319-5940, October 2012, Impact Factor 1.770, Indexed by- Index Copernicus International, Computer Science Directory, Cross Ref, cite factor, Google Scholar.
  29. Raut R. D. & Nandekar B., A novel approach towards Car parking with space conservation, *International Journal of Electronics Communication and computer engineering*, Vol. 3 Issue 6, November 2012, e-ISSN: 2249 – 071X, p-ISSN: 2278-4209, pp. 1286-1288, Impact Factor 1.0909, Indexed by- UK Index, Cite factor, Cross Ref, Proquest, Google Scholar.
  30. Raut R. D. & Mendre W., Thyroid Disease Diagnosis using Image Processing: A Survey, *International Journal of Scientific and Research Publications*, PP 1-4, Vol. 2, Issue 12, December 2012, ISSN 2250-3153, Impact Factor 0.69, Indexed by- Bielefeld Universal Library, Open access res data base, Cross ref, Scribd, Scirus, Google Scholar, Cite Seer.
  31. Raut R. D. & Kulkarni S., Secure Biometrics using Finger Knuckle Print, *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 1, Issue 10, pp. 852-854, ISSN: Online 2278-1021, ISSN (Print): 2319-5940, December 2012, Impact Factor 1.770, Indexed by- Index Copernicus International, Computer Science Directory, Cross Ref, cite factor, Google Scholar.
  32. Raut R. D. & Nandekar B., A novel approach towards Car parking with space conservation, *National Journal of SCI TECH Research*, Vol. IV, Issue (1), Jan 2013, ISSN:0974=9780 pp. 07-12, Indexed.
  33. Raut R. D. & Vineet Goyal, Wireless sensor network selection for intelligent public transport system in developing countries, *National Journal of SCI TECH Research*, Vol. IV, Issue (1), Jan 2013, ISSN:0974=9780 pp. 21-28, Indexed.
  34. Raut R. D. & Kulkarni S., Authentication using correlated biometrics traits, *International Journal of Computer Science and Application* Vol. 6, No.2, April 2013, pp. 113-116, e-ISSN : 0974-1011, p- ISSN : 0974-1003, Impact Factor 0.1727, h-Index 7, Indexed by- Universal Imp Factor, Cross ref, Scribd, Scirus, Google Scholar, Cite Seer.
  35. Raut R. D. & Mendre W., Neural Network based Decision Support System for the Diagnosis of Thyroid Diseases, *International Journal of Computer Science and Application* Vol. 6, No.2, April 2013, pp. 102-106, e-ISSN : 0974-1011, p- ISSN : 0974-1003, Impact Factor 0.1727, h-Index 7, Indexed by- Universal Imp Factor, Cross ref, Scribd, Scirus, Google Scholar, Cite Seer.
  36. Raut R. D. & Sanjeev Srivastava, Study and Analysis of the Capacity of Ad-hoc Wireless Network using Mobility and Delay, *International Journal of Computer Science and Applications*, Vol. 6, No.2, April 2013, pp. 258-262, e-ISSN : 0974-1011, p- ISSN : 0974-1003, Impact Factor 1.35, h-Index 7, Indexed by- Universal Imp Factor, Cross ref, Scribd, Scirus, Google Scholar, Cite Seer.
  37. Raut R. D. & Raut A. D., Intelligent public transport prediction system using wireless sensor network, *International Journal of Computer Application*, Vol. 6, No.2, April 2013, pp. 197-201, e-ISSN : 0974-1011, p- ISSN : 0974-1003, Impact Factor 0.1727, h-Index 7, Indexed by- Universal Imp Factor, Cross ref, Scribd, Scirus, Google Scholar, Cite Seer.
  38. Raut R. D., A Design Approach of Car Parking System with Space Conservation, *International Journal of Computer Science and Applications*, Vol. 6, No.2, April 2013, pp. -----, ISSN : 0975-8887
  39. Raut R. D. & Vineet Goyal, Selection Criteria of WSN for IPTS Planning and Deployment in Developing Countries, *International Journal of Engg. Research & Industrial Applications*, ISSN 0974-1518, Vol. 6, No. II, May 2013, pp 1-11, Impact Factor 0.526, Indexed by- EBSECO (USA), CAS, ISI, Proquest.
  40. Raut R. D. & Vineet Goyal, Route diversion detection system for public bus transport using WSN, *International Journal of Emerging Trends & Technology in Computer Science*, Vol. 2, Issue 3, ISSN 2278-6856, May-June 2013, pp 298-308, Impact Factor 2.524, Indexed by- Index Copernicus International, UK Index, Proquest, Scribd, Scirus, Google Scholar, Cite Seer.
  41. Raut R. D. & Bhande S., Parkinson Diagnosis using Neural Network: A Survey, *International Journal of Innovative Research in Science, Engineering & Technology*, Volume 02, Issue 09, ISSN: 2319-8753, September 2013, pp. 4843-4846, Impact Factor=1.682, Indexed by- Index Copernicus International, Proquest, Cross Ref, arXiv.org, Scribd, Scirus, Google Scholar.

42. Raut R. D. & Sanjeev Srivastava, On Enhancing the Performance of Capacity of Ad Hoc Wireless Networks using Directional Antennas, *International Journal of Mobile And Adhoc Network*, Volume 03, Issue 04, November 2013, pp. 233-238, IFRSA Board, Indexed by Google Scholar, Impact factor 3.56, Indexed by- NASA, CAS, Google Scholar.
43. Raut R. D. & Nandekar B., Improved Car Parking With Space Modeling, *International Journal of Electrical and Electronics Engineering*, PP 67-71, March 2014, eISSN:2278-1676, p-ISSN:2320-3331, Impact factor 1.452, Indexed by- American National Engg. Data Base, Index Copernicus International, NASA, CAS, Google Scholar.
44. Raut R. D. & Bhande S., Intelligent Decision Support System for Parkinson Diseases using Soft Computing, *International Journal of Electrical and Electronics Engineering*, PP 17-22, March 2014, eISSN:2278-1676, p-ISSN:2320-3331, Impact factor 1.452, Indexed by- American National Engg. Data Base, Index Copernicus International, NASA, CAS, Google Scholar.
45. Raut R. D. & Vineet Goyal, Forecasting of Vehicle Travel Time Prediction For Jaipur-Delhi Route Using FTLR Neural Network Model With Gamma Memory, *International Journal of Electrical and Electronics Engineering*, March 14, PP 27-31, March 2014, eISSN:2278-1676, p-ISSN:2320-3331, Impact factor 1.452, Indexed by- American National Engg. Data Base, Index Copernicus International, NASA, CAS, Google Scholar.
46. Raut R. D. & Kulkarni S., Finger Vein Recognition, *International Journal of Electrical and Electronics Engineering*, March 14, PP 32-36, eISSN:2278-1676, p-ISSN:2320-3331, Impact factor 1.452, Indexed by- American National Engg. Data Base, Index Copernicus International, NASA, CAS, Google Scholar.
47. Raut R. D. & Raut A. D., Optimal Classification of Soybean Crop Diseases using Neural Network Approach, *International Journal of Electrical and Electronics Engineering*, March 14, PP 37-40, March 2014, eISSN:2278-1676, p-ISSN:2320-3331, Impact factor 1.452, Indexed by- American National Engg. Data Base, Index Copernicus International, NASA, CAS, Google Scholar.
48. Raut R. D. & Sanjeev Srivastava, Enhancement of CSI Performance using Diversity Techniques, *International Journal of Electrical and Electronics Engineering*, March 14, PP 57-61, March 2014, eISSN:2278-1676, p-ISSN:2320-3331, Impact factor 1.452, Indexed by- American National Engg. Data Base, Index Copernicus International, NASA, CAS, Google Scholar.
49. Raut R. D. & Borkhade G., Decision Support System for Eye Diseases using Neural Network Approach: A Review, *International Journal of Recent Trends in Engineering and Technology*, vol. 11, June 2014, pp. 365-370, e-ISSN 2158-5563, p-ISSN 2158-5555, Indexed by- EBSCO Host, Proquest, Index Copernicus International.
50. Raut R. D., Dr. V. M. Thakare & Miss. Priti M. Badone, Efficient Image Retrieval with Feature Extraction Based on Multi-Image Query, *International Journal of Electronics, Communication and Soft Computing Science & Engineering (IJECSCE)*, ISSN: 2277-9477 (Online), Volume 2, Issue I, May- 2014, pp. 10-13, Impact factor 2.02, Indexed by- Index Copernicus International, ProQuest, DOAJ, Google Scholar.
51. Raut R. D. & Sanjeev Srivastava, Enhancement of channel capacity performance in MIMO technology using spatial multiplexing, *International Journal of Research and Industrial Application (IJERIA)*, ISSN 0974-1518, Volume 7, Issue III, August 2014, pp. 1-12, Impact factor 0.509, Indexed by- EBSECO (USA), CAS, ISI, Proquest.
52. Raut R. D. & Vineet Goyal, Design and development of bus failure detection model in intelligent public transport system, *Journal of the Instrument Society of India*. September 14, vol. 44, No. 03, ISSN: 0970-9983, pp. 164-165, oldest peer reviewed Indian research journal.
53. Raut R. D. & Nandekar B., Performance evaluation of modern sophisticated parking management system with space modeling, *International Journal of Innovative Research in Computer and Communication Engineering (An ISO 3297: 2007 Certified Organization)*, Vol. 2, Issue 11, November 2014, pp. 6535-6538, Impact factor 4.447, ISSN (Print): 2320-9798, e-ISSN 2320-9801, Indexed by- Index Copernicus International, Proquest, DOAJ, Crossref, Scopus, arXiv.org, Scribd
54. Raut R. D. & Borkhade G., Support Vector Machine Neural Network based Optimal Binary Classifier for Diabetic Retinopathy, *International Journal of Innovative Research in Computer and Communication Engineering*, Vol. 3, Issue 1, January 2015, pp. 136-140, eISSN 2320—9801, ISSN (Print): 2320-9798, Impact factor 4.447, Indexed by- Index Copernicus International, Proquest DOAJ, Cross-ref, Scopus, arXiv.org, Scribd
55. Raut R. D. & Kulkarni S., Vein Pattern for Personal Authentication, *International Journal of Electronics, Communication and Soft Computing Science & Engineering (IJECSCE)*, ISSN: 2277-9477 (Online), Volume 2, Issue I, April 2015, pp. 1-5, Impact factor 2.02, Indexed by- Index Copernicus, Proquest, DOAJ
56. Raut R. D. & Sanjeev Srivastava, Evaluation of the performance comparison of DSR and AODV Routing Protocols in mobile ad hoc networks, *International Journal of Electronics, Communication and Soft Computing Science & Engineering (IJECSCE)*, ISSN: 2277-9477 (Online), Volume 2, Issue I, April 2015, pp. 6-9, Impact factor 2.02, Indexed by- Index Copernicus, Proquest, DOAJ
57. Raut R. D. & Nandekar B., Design of Parking Guidance System to Optimize Space, *International Journal of Electronics, Communication and Soft Computing Science & Engineering (IJECSCE)*, ISSN: 2277-9477



- (Online), Volume 2, Issue I, April 2015, pp. 14-16, Impact factor 2.02, Indexed by- Index Copernicus, Proquest, DOAJ
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  59. Raut R. D. & Mendre W., Performance Comparison of Speckle Reducing Filters for Ultrasonography (USG) Images of Thyroid Glands, *International Journal of Electronics, Communication and Soft Computing Science & Engineering (IJECSCE)*, ISSN: 2277-9477 (Online), Volume 2, Issue I, April 2015, pp. 33-36, Impact factor 2.02, Indexed by- Index Copernicus, Proquest, DOAJ
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**B) Papers Published in Proceeding: International / National level Seminar/Conference /Symposia)**

Sr. No.	Title with Page Nos.	Details of Conference Publication	ISSN / ISBN No.
1	Bluetooth Technology, Proceeding Pg.No.361-364., Raut R. D, Bamnote G. R.	National Symposium on Intelligent Nuclear Instrumentation, INIT - 2001	Peer Reviewed

		Bhabha Atomic Research Center, Mumbai 6-9 February 2001	
2	Fuzzy Logic based Medical Diagnosis, Proceeding Pg.No.461-464. , Raut R. D., Dudul S. V., Jain K. C.	National Symposium on Intelligent Nuclear Instrumentation, INIT - 2001, Bhabha Atomic Research Center, Mumbai 6-9 February 2001	Peer Reviewed
3	Design & Implementation of PC based Diagnosis of Cardiac Disorders, Proceeding, Pg. No.02-05. , Raut R. D.	National Conference on "Sensor and Instrumentation" I.S.S.College of Engg. & I.T. for Women, Hyderabad. 5-6 Jan. 2002	Peer Reviewed
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6	Artificial Neural Networks in Cardiology, Proceeding Page. 19-25, Raut R. D., Dudul S. V.	National Conference on Intelligent Systems & Networks ISN 2004 Haryana Engg. College, Jagadhri. (Haryana State) 27-28 Feb. 2004.	Peer Reviewed
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9	Design of Intelligent Decision Support System for Diagnosis of Cardiac Arrhythmias using MLP Neural Network, Proceeding PP. 374-379, Raut R. D., Dudul S. V.	First International Conference on Signal and Image Processing, IEEE Bangalore Section, <u>B..V.B.C.O.E. Hubali, Karnatak</u> , 07-09 Dec 2006, indexed By <i>Macmillan Adv Research Series</i>	ISBN-10:0230-63003-0, ISBN-13:978-0230-
10	Optimal DSS for Diagnosis of Cardiac Arrhythmias using PCA Neural Network Proceeding Pg 406-413, Raut R. D., Dudul S. V.	IEEE International Conference ACVIT07, Advances in Computer Vision and Information Technology, Dr. B.A.M.U., Aurangabad, 28-30 Nov 2007	indexed by I K INT. ISBN: 978-81-898666-74-7
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22	A Novel Approach for Content based Image Retrieval based on Optimized Feature Vector. Proceeding Pg 01-04, Raut R. D., Thakare V. M, Badone P.	IETE International Conference on RF and Wireless, HKBK College of Engg., Bangalore, 08-10 May 2014.	Peer Reviewed, indexed by IEEE, IEI
23	Efficient Image Retrieval With Feature Extraction based on Multi Image Query, (ICACCI-2014). Proceeding Pg No 01-05, Raut R D, Thakare V M, Badone P.	2 <sup>nd</sup> International Conference on Advances in Computing, Communication & intelligence, Mauritius, 23-29 May 2014	Peer Reviewed
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26	Parking System with Space Modeling to Improve Parking Efficiency and Parking Revenue, IEEE Proceeding, pp. 262-267, Raut R. D. & Bandu Nandekar	IEEE 2015 International Conference on Communication Networks (ICCN) , IITM, Gwalior, 19-21 November 2015	978-1-5090-0051-7/15/\$31.00©2015 IEEE DOI 10.1109/ICCN.2015.51
27	Optimal Neural Network Classifier for Thyroid Disease Diagnosis, IEEE Proceeding, pp. 233-236 ,Raut R. D. & Wrushali Mendre	IEEE 2015 International Conference on Communication Networks (ICCN) , IITM, Gwalior, 19-21 November 2015	978-1-5090-0051-7/15/\$31.00©2015 IEEE DOI 10.1109/ICCN.2015.45
28	Analyzing the performance of routing protocols based on evaluation of different parameters in MANETs, IEEE Proceeding, pp. 258-261 ,Raut R. D. & Sanjeev Srivastava	IEEE 2015 International Conference on Communication Networks (ICCN) , IITM, Gwalior, 19-21 November 2015	978-1-5090-0051-7/15/\$31.00©2015 IEEE DOI 10.1109/ICCN.2015.50
29	Transform Domain Finger Vein based Unimodal Biometric Recognition System,IEEE Proceeding, pp. 347-351 ,Raut R.D. & Sujata Kulkarni	IEEE 2015 International Conference on Communication Networks (ICCN) , IITM, Gwalior, 19-21 November 2015	978-1-5090-0051-7/15/\$31.00©2015 IEEE DOI 10.1109/ICCN.2015.66
30	Wavelet based modern finger knuckle authentication, ELSVIER Science Direct procedia, computer science vol. 70, pp 649-657, Raut R.D. & Sujata Kulkarni	International Conference ICECCS, NIT Kurukshetra, December 2015,	DOI 10.1016/J.PROCS.2015.10.101
31	Tumor demarcation from CT Scan Images using 2D Wavelet Transform, Raut R. D. & Geeta Kadu	Preceeding of 2017 IEEE International Conference on innovation in information embedded and communication system	-
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33	Performance Analysis of AODV T routing protocol for wireless adhoc networks	Proceeding of sixth international conference on advance in information technology and mobile communication	-
34	A Survey on Fingerprint Authentication for Bio metrics in case of Verification Privacy Protections and Security, PP. 55-58	SPRINGER INTERNATIONAL and International Conference on science, Technology and Mathematics Education Trends & Alignment with Industry	ISSN 2190-3018 ISBN 978-981-15-0076
35	Neural Network Classifier for Diagnosis of Diabetic Retinopathy, Chapter 9, PP. 83-88.	SPRINGER INTERNATIONAL, and International Conference on SMART TRENDS FOR COMPUTING AND COMMUNICATIONS Bangkok Thailand	ISSN 2190-3018 ISBN 978-981-15-0076 IEEE UK
36	Enhancing the performance of average throughput, end-to-end delay, drop packets and packet delivery ratio by using improved AODV routing protocol in ad hoc wireless networks	SPRINGER INTERNATIONAL, and International Conference on SMART TRENDS FOR COMPUTING AND COMMUNICATIONS Bangkok Thailand	ISSN 2190-3018 ISBN 978-981-15-0076 IEEE UK
37	Solar powered ligt irrigation system using BLDC motor: A Review	International converence on emerging technology micro to nano, SPPU pune, 16/12/2019 to 17/12/2019	-

38	Solar Energy for Smart Tribal villages in Central India	National conference on Technology for Tribal And Rural Development, Govt. poly. Sakoli, AICTE 29-30 Jan 2020	-
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**C) Papers Presented (in International / National level Seminar/Conferences/Symposia/workshop) Abstract published.**

SN	Title	Conference/Symposia	Venue & Date
1	Medical Instrumentation – Recent trends	National Seminar on Medical Instrumentation	Institute of Electronics & Telecommunication Engineers, Nagpur Center <b>10<sup>th</sup> January 1999</b>
2	Fire Wall – INTERNET Security Concept Technology & Application	National Conference on information Technology, ITCT – 2000	Deptt.of Computer Science, Amravati University, Amravati <b>22-24 January 2000</b>
3	Smart gas sensor Present status and future needs	National conference on recent trends in composites	S.S.Sc.College Amravati <b>28 Feb-2 Mar 2001</b> Souvenir pg.no. 56
4	Distributed Digital Control of Processes	National Symposium on Instrument ation NSI-26	Instrument Research and development, DRDO-Dehradun <b>31<sup>st</sup> Oct-2<sup>nd</sup> Nov 2001</b> Souvenir pg.no. CP223
5	Algorithm for PC based Diagnosis of Heart Diseases and case studies.	National Seminar on Use of Microprocessor & Microcomputer in Instrument ation	Instrument Manufacturers and Dealers Association, Mumbai <b>31<sup>st</sup> Oct-2<sup>nd</sup> Nov 2001</b> , Souvenir pg.no. CP224
6	information Technology in Enhancing Mediated Communication for Distance Education	National Seminar on information Technology Revolution and Human Resource Management	Vidhya Bharati Mahavidhyalay, Amravati University, Amravati. <b>11-12 Jan. 2002</b> Souvenir pg.no. 41
7	“Flow measurement and control system for SOLAR WATER HEATER”	NATIONAL SEMINAR “Eco Friendly Chemical Technologies in new millennium”.	Dept. of Chemical Technology <b>7-8 Feb. 2002</b> Souvenir pg.no. 40
8	Design of Spectro-Photometer for the study of synchronous Luminescence	National Conference on LASER’s and their Applications	Dept. of Physics Amravati University, Amravati <b>28-30 Jan. 2004</b> Abstract page No. 32
9	Neural Network based Image data compression	National Symposium on Instrument ation NSI-30	Dept of Instrument ation and Sophisticated Test and Instrument ation Center, Cochin University, Cochin <b>30<sup>th</sup> NOV-2<sup>nd</sup> DEC.2005</b> Proceeding Page No.95-98
10	Design of 8 bit Microprocessor using FPGA	22 <sup>nd</sup> National Convention of Electronics and Telecommunication Engineers and NATIONAL SEMINAR on Advances in Electronics and Telecommunications	Institution of ENGINEERS(I) , Jaipur, Rajasthan State Center, <b>August 4-5-2006.</b> souvenir page no.04
11	Neural Network based Cardiac Arrhythmias Classification	National Symposium on Instrumentation NSI-31	Instrument soc. of india IITM Gwalior (MP.) <b>12-15 Oct 2006</b> Proceeding pg 20-23
12	Hybrid Optical Sensors for Extreme Environments	International Symposium SAMTI-2011 BARC, Mumbai	Bhaba Atomic Research Centre, Trombay ,Mumbai Proceeding pp. 71-75 <b>2-4 Feb 2011</b>
13	Development of decision support system for eye diseases using neural network approach	1 <sup>st</sup> International virtual congress, INT SCI congress association, indore	Engine sciences, INT e publication, 5-10-June 2014, pp. 29
14	Image privacy protection in social networking using data hiding technique, FIRST PRIZE BEST PAPER & PRESENTATION AWARD	International Conference On Recent Trends In Engineering Science Tech And MGMT, 24/04/2017	SVIT Secunderabad, Seventh Sense Research Group Chennai

15	Providing Privacy to the Uploaded Images on Social Media using Blurring Technique	5th International Conference On Engineering Technology Science And Management Innovation, 30/04/2017	IETE Lodhi Rd Delhi And Academic Science
16	Implementing Privacy Settings for images using Sensitive Object Capturing and Watermarking Technique	International Conference On Advanced Trends In Engineering Mgmt Science, 07/05/2017	IFUNA Qutub Inst New Delhi, Academic Science
17	Prevention of Face Spoofing Attacks and Its Detection Using LBP	International Conference On Emerging Trends In Engineering Technology Science And Mgmt, 20/05/2017	Lakshminarayan College Of Tech Bhopal, Conference World
18	Face Spoofing Attacks Detection In Bio metric System	2 Nd International Conference On Emerging Trends In Engineering And Mgmt Research, 28/05/2017	IETE Pune
19	Effective methodology for detecting and preventing face spoofing attacks FIRST PRIZE IN PAPER PRESENTATION & BEST PAPER AWARD	7th International Conference On Recent Development In Engineering Science Humanities And Mgmt, 03/06/2017	NITTTR Chandigarh, MHRD Gov India Conference World
20	Invited talk- DISEASE INTERPRETATION CLASSIFICATION BASED ON MEDICAL IMAGING INTELLIGENT TECHNIQUES	THIRD INTERNATIONAL CONFERENCE ON SMART TRENDS FOR COMPUTING AND COMMUNICATIONS	IEEE UK SPRINGER GLOBAL KNOWLEDGE RESEARCH FOUNDATION, 24/01/2019 to 25/01/2019
21	Paper- Classification of Liver disease using Multi-layer Perceptron Neural Network, 28-30/10/2018	International Conference on Latest Innovations in engineering Management social Science and Education,	GURUKUL INSTITUTE OF ENGINEERING AND TECHNOLOGY KOTA, AICTE conference world - International CENTRE PANJIM GOA
22	<u>Best Paper Award</u> - Enhanced Data Auditing and Authentication scheme in Cloud Computing Using Outsource Band Model.	SIXTH INTERNATIONAL CONFERENCE ON INNOVATIVE TRENDS IN SCI ENGG AND MGMT	IEI CHANDIGARH 20 <sup>th</sup> JAN 2019
23	Invited talk- MATLAB APPLICATIONS	TWO DAYS WORKSHOP ON MATLAB , 03-04/10/2018	SHRI DATTA MEGHE POLYTECHNIC NAGPUR

**e-WORKSHOP, e-FDP, e- STTP, e-Seminar/ Webinar:**

SN	Title	Type	Organizer	Venue	Date
1	ONLINE COURSE ON SMART IRRIGATION SYSTEM	FACULTY DEVELOPMENT WORKSHOP, National Level	SKYFI LABS MUMBAI	ONLINE	19/04/2020
2	ONLINE Workshop ON INTRO TO PLC PROGRAMMING- ONE DAY PROJECT TRAINING	National Level	SKYFI LABS MUMBAI	ONLINE	04/05/2020



3	2 Days ML and AI Using Covid-19 Virus Data Analysis Workshop	FACULTY DEVELOPMENT- ONLINE Workshop	IIT ROORKEY FINLAND LAB	International Level	16/05/2020 to 17/05/2020
4	A TOUR TO COMMUNICATION ENGG- ONLINE Workshop	NATIONAL LEVEL QUIZ	SHREE R L TIWARI COLLEGE OF ENGINEERING THANE	National Level ONLINE	15/05/2020
5	COVID 19 AWARENESS PROGRAM- WORKSHOP	University Level	PRATIBHA WOMENS STUDY CENTRE VBMV Amravati	ONLINE	19/05/2020
6	DIGITAL IMAGE PROCESSING	QUIZ- ONLINE Workshop	Department of Electronics & Telecommunication of Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi Pune	National Level	20/05/2020
7	Engineering Career after Lock down	WEBINAR Seminar	Institution of Engineers Solapur	National Level ONLINE	19/05/2020
8	Online teaching and learning using Google classroom and Google meet	WEBINAR Seminar	Mahatma Education Society PILLAI COLLEGE OF ENGINEERING Pillai Campus New Panvel	National Level ONLINE	22/05/2020
9	INTERNATIONAL E CONFERENCE ON Strategies and Challenges in Higher Education during COVID-19 Lockdown Period in India	INTERNATIONAL CONFERENCE ONLINE	GVISH Amravati	International Level	15/05/2020 to 17/05/2020
10	Intellectual Property Rights- Seminar	WEBINAR	E&TC Department, RD's SCSCOE Pune	National Level- ONLINE	25/05/2020
11	Introduction to Image Processing- Workshop	TRAINING AND PROJECT	SKYFI EDUCATION LABS MUMBAI	National Level- ONLINE	23/05/2020
12	Webinar on SWAYAM E LEARNING	WEBINAR Seminar	GOI AND J G COLLEGE HUBALI	National Level ONLINE	17/05/2020
13	Workshop -COVID 19 AWARENESS PROGRAM	WEBINAR QUIZ	VBMV CAMP AMRAVATI	National Level ONLINE SECURED 90 PERCENT	19/05/2020
14	MOOCS E -LEARNIG THE ROAD AHEAD	Workshop- National Level-	MUMBAI UNIVERSITY	ONLINE	18/04/2020
15	GATE AWARENESS CAREER OPTIONS AND BENEFITS- Workshop	WEBINAR	GRADEUP AND SCSCOE DHANGAWADI PUNE	National Level- ONLINE	22/05/2020
16	IEEE802.11 AND BUILDING WIRELESS COMMUNICATION	WEBINAR- Seminar	IEEE SA MHRD SHIVAJI UNIVERSITY	National Level-	22/05/2020

	NETWORK		KOLHAPUR	ONLINE	
17	STTP- MATLAB BASED TEACHING LEARNING IN MATHS SCIENCE AND ENGINEERING	ONE WEEK- National Level	DESIGN TECH AND DEPT ETC RAMRAO ADIK IT NERUL NEW MUMBAI	ONLINE	18/05/2020 to 22/05/2020
18	Machine Learning- Workshop	TRAINING AND PROJECT	BRAIN O VISION	International Level- ONLINE	27/05/2020 to 29/05/2020
19	FACULTY DEVELOPMENT PROGRAM ON ARTIFICIAL INTELLIGENCE- STC	SHORT TERM COURSE	AICTE BRAINOVISION NYC	National Level- ONLINE	22/05/2020 to 26/05/2020
20	OLMS & Designing E - Content	Four Days Online Faculty Development Program	K.L.E Society's J. G. College of Commerce Hubballi MHRD IIC	National Level- cloud meeting platform	28/05/2020 to 31/05/2020
21	NBA Awareness Quiz	WEBINAR QUIZ, Seminar	IQAC, Terna Engineering College, Navi Mumbai IQAC Terna Engineering College Navi Mumbai	National Level- ONLINE	22/06/2020 to 02/06/2020
22	Usage of Technology in Covid-19-FDP	ONE WEEK FACULTY DEVELOPMENT PROGRAM	Department of Information Technology Terna Engineering College Nerul, Navi Mumbai	National Level- ONLINE	28/05/2020 to 02/06/2020
23	Quiz on Environment and Food Safety	QUIZ online- Seminar	Department of Electronics and Telecommunication K K Wagh Polytechnic Nashik	National Level- ONLINE	03/06/2020
24	SEMINAR ON ENGINEERING CAREER AFTER LOCK DOWN	SEMINAR	INSTITUTE OF ENGINEERS SOLAPUR CENTRE	National Level	19/05/2020
25	Webinar on Electrical Vehicle & Electrical Hybrid Vehicle – Design Considerations and Opportunities	WEBINAR- Seminar	K K Wagh Polytechnic Nashik Hirabai Haridas Vidyanagari Amrutdham Panchvati Nashik	University Level- ONLINE	06/06/2020
26	MOODLE HOW TO DESIGN YOUR ONLINE COURSE- Workshop	TRAINING AND PROJECT	Nascency Infotech Aurangabad	National Level- ONLINE	05/06/2020
27	Recent Trends in Wireless Communication- Seminar	INTERNATIONAL WEBINAR	R C Patel Institute Of Technology Shirpur Department Of Electronics and Telecommunication	International Level- ONLINE	07/06/2020
28	International Web Conference on Impact of COVID 19 on Library Resource Sharing	INTERNATIONAL WEB CONFERENCE	G S Mandals MIT Group of Institutions Aurangabad MS India	International Level- ONLINE	12/06/2020 to 13/06/2020
29	Faculty Development Program on Artificial Intelligence in Healthcare-	SHORT TERM COURSE	DEPT ETX R C Patel Institute Of Technology Shirpur Department Of Electronics and	International Level- ONLINE	10/06/2020 to 11/06/2020

			Telecommunication		
30	Workshop on Online Content Creation and Assessment Tools	SHORT TERM COURSE	K K Wagh Polytechnic Nashik Hirabai Haridas Vidyanagari Amrutdham Panchvati Nashik	National Level- ONLINE	04/06/2020 to 06/06/2020
31	Recent Trends and Application of Solar Photovoltaic Energy System	ONE WEEK SHORT TERM TP	Electronics & Telecommunication Engineering Dr Rajendra Gode Institute of Technology & Research Amravati	National Level- ONLINE	02/06/2020 to 06/06/2020
32	QUIZ E TRAINING SOLAR ENERGY	QUIZ, Seminar	Electronics & Telecommunication Engineering Dr Rajendra Gode Institute of Technology & Research Amravati	National Level- ONLINE	13/06/2020
33	WORKSHOP ON GARDENING TECHNIQUES	TRAINING AND PROJECT	GARDEN CLUB AMRAVATI	State Level- ONLINE	29/05/2020 to 31/05/2020
34	STTP SIGNAL ANALYSIS MACHINE LEARNING AND ITS APPLICATIONS USING PYTHON AND MATLAB	FACULTY DEVELOPMENT ONE WEEK	Department of Electronics and Telecommunication Engineering in association with IETE	National Level- ONLINE	01/06/2020 to 05/06/2020
35	FDP on Advances and Research Opportunities in E&TC Engineering	ONE WEEK FACULTY DEVELOPMENT PROGRAM	Department of Electronics & Telecommunication Engineering SVERIs College of Engineering Pandharpur	National Level- ONLINE	10/06/2020 to 14/06/2020
36	Future Advancements and Applications of Internet of Things-FDP	INTERNATIONAL FACULTY DEVELOPMENT Program	Electronics & Telecommunication Department of Sandip Institute of Engineering & Management Nashik	International Level- ONLINE	12/06/2020 to 14/06/2020
37	WEBINAR on LTE Core Network	WEBINAR and QUIZ, Seminar	Electronics & Telecommunication Department of RKNEC NAGPUR	International Level- ONLINE	10/06/2020
38	IETE West Zone Seminar on Outcome Based Education	WEBINAR and QUIZ, Seminar	IETE Navi Mumbai Centre IETE HQ New Delhi	National Level- ONLINE	19/06/2020 to 20/06/2020
39	Seminar -Slogans on the event of Biodiversity	Seminar - COMPETITION	IWSA AMRAVATI BRANCH	National Level- ONLINE	23/05/2020
40	Seminar -BIOMEDICAL INSTRUMENTATION A BOON TO HEALTHCARE INDUSTRY 2020	INTERNATIONAL WEB SYMPOSIUM, Seminar -	Shri Mathuradas Mohota College of Science Nagpur In Association with STAMI	International Level- ONLINE	26/06/2020 TO 27/06/2020
41	Seminar -TECH WEBINAR ARTI INTELLIGENCE WAY FORWARD	INTERNATIONAL WEBINAR, Seminar -	IEEE Bombay Section SINHAGAD COE LONAWALA	International Level- ONLINE	28/06/2020

**TOTAL PUBLICATIONS:**

I.	<b>International level</b>	:	Journals=	Proceedings=
II.	<b>National level</b>	:	Journals=	Proceedings=
III	Presented papers (Abs published)		INT=	N =

**D) Research Guidance to P. G. Projects / M.Phil Dissertation:**

Level	Project Under Taken	No. of Students	Completed Year
P.G. (M.Sc. Applied Electronics)	• Microprocessor based X-Y Plotter	05	1994-95
	• Microprocessor based Automated System for Parameter Measurement	05	1995-96
	• Satellite Receiver	05	1996-97
	• Microprocessor based Versatile Dot Matrix Rolling Display	04	1997-98
	• Pseudo Dolby Surrounded Sound System	06	1998-99
	• Microprocessor based industrial Timer	04	1999-2000
	• Simulation of 8085 Microprocessor using C	05	2000-01
	• Fiber Optics Communicator	04	2001-02
	• NN based Lymphography Classifier	05	2004-05
	• Remote Control using FM	06	2005-06
	• Heart Diseases Diagnosis using Neural Network Approach	04	2008-09
	• Design and development of automatic shopping trolley	06	2012-13
	• Automatic messaging system for vehicles accident detection	07	2014-15
M.E. C.Sc.IT Dissertation	• Comparison of Various CBIR Techniques & Implementation of Efficient Algorithm	01	2013-14
	• Implementation of Efficient Real Time Image Matching Algorithm in Computer Vision	01	2014-15
	• Developing Efficient Object Detection & Tracking Technique based on Computer Vision	01	2014-15
	• Study of fingerprint enhancement Techniques & designing Techniques for increased accuracy in matching process	01	2014-15
	•		

**E) Research Projects Completed:**

Research Project	Principal investigator	Co-investigator
Minor Research (2002-2004) <b>“PC BASED DIAGNOSIS OF HEART DISEASES”</b>	SELF, completed under UGF (TRDEA) Rs.15,000/-	NIL

**F) Participated in AICTE/ISTE/UGC Courses/ S-W-Schools/STTP/Refresher etc.**

S . N	Courses/ Schools	Title	Place	Duration
1.	Orientation courses (induction training for E & T. Faculty)	induction Training for Engg. Teachers (A.I.C.T.E.& ISTE Approved) <b>Secured A+ grade</b>	D. Y. Patil College of Engg., PUNE	22/05/95 to 10/06/95

2.	Refresher courses	Electronics & Computer Science	Deptt.of Applied Electronics, Amravati University	06/05/96 to 29/05/96
		Electronics & Computer Science	Deptt. of Applied Electronics, Amravati University	04/10/97 to 27/10/97
		Physical Sciences- Electronics	Deptt. of Physics, Amravati University	02/06/01 to 25/06/01
3.	Summer/ Winter School /S.T.T.P. (AICTE & ISTE Approved)	ISTE Summer School on “Automation in industrial Process Control”	Technical Teachers Training institute Chandigarh	10/07/2K to 21/07/2K
		National level S.T.T.P. “Biomedical Equipment Technology”	Govt. College of Engineering Amravati	16/06/03 to 20/06/03
		S.T.T.P. “Advanced Signal & Image Processing Applications in Instrumentation”	V.I.T. Pune	27/03/04 to 10/04/04
		AICTE & ISTE sponsored STTP on MATLAB and DSP	Dept of E&TC PRMITR college of engg. BADNERA	21-25 April 2008
		MATLAB as a scientific tool for research in emerging areas like communication engg and AICTE & ISTE sponsored STTP on medical image processing	Dept of E&TC PRMITR College of engg. BADNERA	23March-02April 2011
		AICTE & ISTE sponsored STTP on Real time embedded system	Dept of IT PRMITR College of engg. BADNERA	01-10April 2011
		Two week ISTE Workshop Signal and systems by IIT Kharagpur	Dept of E&TC PRMITR College of engg. BADNERA	2-12 Jan 2014
4.	Short term course	Four Month Certificate Course - <b>Programming excellence through “C”</b>	institute of Computing & information Technology, Nagpur	01/11/90 to 28/02/91
		Two months Certificate course in “Visual Basic 6”	Boston’s Computer institute, Amravati	01/04/03 to 31/05/03
		one month Cert. Course in “Oracle-8”	Boston’s Computer institute, Amravati	01/06/03 to 30/06/03
5.	Workshops (AICTE, ISTE Approved)	National Workshop on “Effective use of INTERNET information Resources”	Tata Energy Research institute, New Delhi	22-23 Jan 1998
		National Workshop on “ATM Technology for Multimedia Applications	Dept of E&TC College of Engg, Shegaon	12-13 Feb, 2000
		National Workshop on “Micro controllers and their application”	Vishwakarma institute of Technology, PUNE	28-30 July, 2000
		Regional level Workshop on “Energizing Curriculum for up gradation of Standards”	T.R.D.E.A., Amravati University, Amravati	14-15 July 2001
		Regional Workshop on “Proficiency in PSPICE Circuits simulators”	BITS & BYTES institute, Amravati	10-16 Sept 2001
		National Workshop on “MATLAB forEngineering Applications”	College of Engineering, Shegaon	23-24 Feb 2002
		National Workshop on “ECG and Arrythmia”	Dr. P.D.M. Medical College, Amravati	09 March 2003
		Workshop on “ Virtual Instrument ation in Engg. Education”	Pune institute of Engg. & Tech. Shivaji Nagar, Pune	3-5 April 2004
		Workshop on “Curriculum designing for communication related subjects in E. & T.”	Jawaharlal Darda inst. of Engg. & Tech., Yeotmal	26-27 April 2004
		Neural Network Fundamentals	TEQUIP GCOE Amravati	17-18 March 2006.
		SPSS UTILITY-Statistical software	Dept. of Statistics, SGBAU, Amravati	7-Sept. 10-11 Oct.2006
	Workshop on VLSI Design	By Soft Polynomial CDAC Nagpur PGTD Applied Electronics,SGBAU	,29-31 MARCH2007	

	Development and implementation of question bank in faculty of Engg. and Technology.	SGB Amravati University	30-31 March 2007
	Restructuring of Etx/ inst. Curriculum	Sipna C.O.E &Tech. Amravati	5-6 July 2008
	UGC workshop on capacity building for women managers in Higher Education	Shivaji University, Kolhapur	3-9 February 2009
	Training program for science and engineering teachers	CDEEP IIT Bombay and SGBAU Amravati	08 Aug. 09
	Lighting for rural and urban low income groups using LEDS	SGBAU Amravati	03/10/09
	Mission 10 X High impact teaching skills Dale C. inc. Trainer ISO 9001 certification	WIPRO at PRMIT &R Badnera	21-25 Dec 09
	Impedance Analyser Massive Taining Programme	SGBAU Amravati	09 FEB 10
	Seminar on natural resources, biodiversity, geography information system	UGC ASC, SGB Amravati University	18 Oct 11
	W/S design aspects of biomedical Instruments	Dept ETX, BBS Sc College Amravati	29 Aug 11
	Sympo on updates in health care technology	Dept ETX, BBS Sc College Amravati	11-12 Feb 12
	Workshop on educational resource planning, edu through ICT, GO india	Sh sh science college Amravati	25-26 FEB 12
	Work shop on LED lamp making	PGTD Applied Electronics, SGBAU	04 FEB 13
	Work shop on patents and intellectual property management	Patent cell, PGTD Applied Electronics, SGBAU	07 FEB 13
	Short term course on Disaster management	UGC ASC, SGBAU	7 <sup>TH</sup> -21 JAN.2013
	Patent and intellectual property management	Patent cell SGB AU	7 FEB 13
	Seminar Biomedical etx mechatronics	PG ETX, BB Sc Amravati	27-28 AUGUST 13
	Vivekanandas inclusive perspective on Education	SGB Amravati University	20 SEPT 13
	Workshop image proc and MATLAB tools	PG ETX, BB Sc Amravati	3 OCT 13
	Workshop on curriculum review, BOS Electronics..Engg & Tech	Dept of ETC, JDIT, YAVATMAL	27 JUNE 14
	UGC ASC Short term course, capacity building for women	ASC SGB Amravati university	14-7-14 TO 19-7-14

### G) Resource Person / invited Talk/ key-note speaker/ Chairing the session

conf/seminar/workshop /sympo/refre. course/ orientation	Refresher Course in Electronics, Computer science, math, physics, statistics	Dept. of Maths, SGBAU Amravati	12-13 Nov 2005
	Refresher Course in Electronics, Computer science, math, physics, statistics	Academic Staff College S.G.B.A.U. Amravati.	28May-10 June 2009
	Refresher Course in Electronics, Computer science, math, physics, statistics	Academic Staff College S.G.B.A.U. Amravati.	ICT-03 March 2010
Mobile computing	Refresher Course in Electronics, Computer science, math, physics, statistics	Dept. of Computer Science, SGBAU Amravati	15May-01 June 2010
Teaching techniques and soft skills	Orientation course	Academic staff college SGBAU Amravati	August 2010
intelligent biomedical systems using neuro computing approach	Keynote speaker for national conf on biomedical electronics engg and bioinformatics NCBEB-2011	DEPT OF BIOMEDICAL ENGG, DBN COE & T Yavatmal	10-11 Jan 2011
ICT Teaching technics	Keynote speaker for refresher course in computer science	Dept. of Computer Science, SGBAU Amravati	10 Feb 11



ICT Applications in Biomedical	Keynote speaker for refresher course in computer science	Dept. of Computer Science, SGBAU Amravati	23 March 11
Virtual Classroom	UGC sponsored orientation program	Academic staff college, SGBAU	08-08-11
Soft computing techniques in ICT	Refresher Course in computational science	UGC-ASC, SGBAU	10-03-12
Operation & applications of analytical Instrument s	Workshop on analytical Instrument s	Shri Shivaji Sc college, Amravati	20-08-11
Analytical Instrument s, popular talk & Demo	Shri Shivaji Sc. college, Chikhali <u>BSCIII ETX,STUDY TOUR,- CIC IMF</u>	CIC IMF sgbau	5FEB13
<u>Soft Computing Tools</u>	Refresher Course in I. T. Application	RTMNU, Nagpur	01-12-13 02-12-13
Embedded system Firmware	Seminar on Bio-Medical Electronics and Mechatronics	Brijlal Biyani College , Amravati	27-28 Aug13
Fundamentals of Machine Learning through Soft Computing Tools	invited talk- National Workshop on machine learning	School of Computational Sciences, Swami Ramanand Teerth Marathwada University	13-14 FEB 14

**Academic Activity:**

Academic Activity
Coordinator IMF
Co-coordinator CIC
Member BOS BME
Member Selection committee
Member BOS Instru GCOE
RTMNU PET QUS BANK –member 29/12/18
Member-NSD 2019-puppet, street theatre
Chairman-seating arrangement convocation-2018
Organised PHD Open defence viva

**H) Membership of Professional Bodies:**

- Life Member of Indian Society of Technical Education LM - 20 394
- Life Member of institute of Electronics & Tele Communication Engg. HONY. TREASURE. LM - 110327
- Life Member of Instrument Society of india, Bangalore LM - 930
- Life Member of institute of Engineers LM-124791/8
- Life Member of Biomedical Engg. Society of India LM – 554
- Life Member of IJERIA LM-2103
- Life Member of IJMSEA LM1081
- Life Member of Computer. Society of India N0048002
- Life Member of Broad cast Engg. Society of India
- Life Member of Indian Science Congress L14488
- Life Member of Indian woman scientist association
- Life Member of Engineering research and industrial applications LM-2103
- Life Member of Mathematical sciences and engineering application LM-1081
- Life Member & Executive Member of Local NUTA Unit
- Hony. Treasurer (office bearer) and Executive Member of IETE Local Center, Amravati. Till date.
- EX-Senate Member, Amravati University, Amravati. 2000 – 2005
- indian women Scientist Association, Mumbai
- SEED Journal, Pune University

### Academic Excellence

**Large publications of research papers in peer reviewed International and national Journals, having good index and impact factors**

**Merit in S.S.C. (20) & H.S.S.C. Exam. (24) Nagpur Board- National Merit Award**

**B.E. & M. E. Ph. D. ETX with first divisions**

**Recipient of Merit scholarships from 4<sup>th</sup> std. To B.E.**

**Recipient of Prime Minister Shield Award for Scout-Guide in 1977**

### DEPARTMENTAL ACTIVITIES

Worked for giving wide publicity to choice-based Credit Grade Course of M.Sc. (Applied Electronics) among University region from JUNE-2009, Worked hard for employment opportunities of students in industries, R & D Sectors, Govt. Sector Academic institutes, Guided f Electronic Students for Entrance, NET, SET, MPSC, UPSC, GATE, PAT, ME Entrance, DTO Exams., Prepared Question banks, books, E Books and journals list for library requisition, equipment list, equipment testing and write-up. Furniture requisition, budget provision., Prepared & submitted Proposal for PG Diploma courses in advanced electronics for women, VLSI, EMBEDDED TECH. course to UGC XI PLAN.

Arranged technical visits, for students to BSNL, TV Centers, Telephone exchange, Amravati., Arranged Alumni meeting, Prepared placement record., Arranged students-parents-teachers meeting, noted their problems.

Motivated and guided students for all extra & co curricular activities like NSD, Competitive events outside.

Worked for organizing one day workshop and poster display on energy conservation under TRDEA by PGTDAA at Shriram Vidyalaya, Vadali Amravati on 7 March 08., Helped to prepare equipment and furniture requisition.

Tested equipments for write-up, prepared reports., Lab. Setup (Communication, LIC, DIC, EDC-II, EENA— Designed 12 New experiments for each LAB. Experimental Board preparation is under process.

Helped and worked for UGC Sponsored workshop on capacity building for women managers in higher education XI TH PLAN Committee member, WOMEN CELL Member, Remedial coaching in-charge from 2005-09

LEC Member-Biomedical Instrument ation Course- career oriented, Organized NSD Popular lectures in collaboration with VBMV Amravati.

Member central admission committee for 2005-2007, Member of Research guidance cell-Govt. Poly Amravati, YCMOU, NASHIK, Women charter committee, grievance committee, NAAC Activities, Subject expert for theory practical examinations of Nashik, Nagpur and Pune Universities, Gram Janhit VIDNYAN Manch. Delivered popular and extension lectures, Organised various activities., Being in-Charge of Central Instrument ation Cell, organized many workshops, training programs, demonstrations for research faculties, research students at national level, Continuous assessment of student: Unit-wise tests, surprise tests, open book tests, assignment Question Banks etc.

### Leadership / Activities / Creativity

Preparation of IQAC reports, Preparation and submission of various criteria for NAAC. (Curricular aspects, Teaching - Learning, Research Consultancy and Extension, infrastructure Facilities, Student Progression -Support and activity, Governance, innovative Practices, Alumni etc.), **Helped students to bring their ideas into reality.**

Polling officer Senate and Acad Election 7 - 19 Dec. 2010

**Administrative-** Co-coordinator MPhil 26 April 09-15 May 09, I/C CIC Since 20 May 2010

### Sports-

Member- Ashwamedh-2003-VII MS inter University sports meet 27 Nov. – 1<sup>st</sup> Dec. ,2003-Member organizing committee. District level badminton winter tournaments- 1980-81 for JB SC Wardha

GCOE Pune- Morris Trophy, womens hockey association of MS tournaments- 1983-84,

intercollegiate basketball 1984-85

intercollegiate hockey 1985-86

Represented Boat Club GCOE Pune team during 82-84 at Madras and Kerla University matches

### Mission-

To work hard and micro planning to Nurture students by imparting them knowledge innovative ideas and thinking Post Doctoral Research for Health care and improving technical qualities of women, Energy Conversation, Hightech Agriculture, Water conservation, large plantations,

R & D Projects in industry , NCERT , Ministry of Science & Technology

MOU's with IIT's , IISC's and NIT's etc.

Paper Setter SGBAU , GCOE Amravati , (Autonomus), Govt. Poly Amravati, Examiner, Moderator

**Co-ordinator** - M.Phil (Electronics), AE S.G.B.A.U. 26 April 2009 to 15 May 2009.

Teaching & Group Discussion Seminars + Project

### Subjects taught since July 1986-

Transducer and measurement, industrial Instrument ation, Process Instrument ation, Control System, Electronic Measurement, Analytical Instrument ation, Semiconductor devices and Linear circuits, Digital Techniques, Advance Instrument ation, Biomedical, Electronic Devices and circuits, Electronic Instrument ation, Microprocessor, Digital Instrument ation, Computer Organization, Electrical Engineering, Network Analysis, Wavelet Transform and Application, Object Oriented Programme 'C++', Communication Theory, Communication Engineering, Digital Communication, Communication Systems, Linear integrated Circuits, Optical Fiber Communication, Solid state devices, Digital System Design, VLSI and Embedded systems, Mobile Computing etc...

**Membership:-** BOS BMEngg, -Treasurer, IETE centre, Amravati Region, Executive Council-IEI centre, Amravati Region, Executive Council-indian woman Science Association, -Senate SGBAU (2000-2005), Chairman of selection committees , SGBAU.

**Participation in socio cultural activities:-** Such as Fellow, life member, advisor, trainer, organizer

**Personal:-**

Father : Late Shri. Prushottamrao Zamaji Thakare, (March 1922 to Nov. 2000)  
M.A. (English, 1945)B.T. (1950), Teacher, Freedom Fighter (Deoli Sangram), Strong follower of Gandhian Thoughts, Worked with Yashwantrao Chavan, Vinobaji Bhave and Babu Kuti Mgmt, Magan Sangrahalay, Wardha.

Mother: :Late Smt. Malatibai Purushottamrao Thakare, Teacher, Higher Sec., D.T. (1945), Wellknown, dedicated Services, at Wardha Dist.

Husband : Dinkar Sadashivrao Raut, Deputy Reg. (Academic) S.G.B.A.U., Amravati.

**Mission:**

- Strive hard to meet the expectations and requirement of AICTE and UGC.
- innovations in Teaching- Learning -Methodologies and use of new technologies.
- Quality Improvement of Question Papers and Assessment in Univ. Exams.

Dr. Ranjana Dinkarrao Raut