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|  | Name | Dr. Meena Chavan | | | | |
| | Designation | Assistant Professor | | | | |
| | Department | Electronics& Communication Engineering | | | | |
| | Qualification | M.E ,Ph.D(E & CE) | | | | |
| | Contact No. | 9822217804 | | | | |
| | Email ID | mschavan@bvucoep.edu.in , meenachavan1180@gmail.com | | | | |
| | Experience | Teaching : | 18.10Years | Industry : | 2.2Years | |

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| Area Of Interest | Digital Electronics, VLSI Design, Speech processing , Embedded systems, Power Electronics | | | |
| Publications | International Journal (s): | 45 | National Journals (s) : | nil |
| | International Conference (s): | 02 | National Conference: | 06 |
| Publication Details | International Journal: Academic Year: 2022-2023 <ol style="list-style-type: none"> 1. Meena Chavan, “ Electric Sports Bicycle Motor Testing in a Laboratory Jig Using Cloud Computing and Internet of Things”, Lecture Notes in Networks and Systems, Springer International Publishing AG, Volume 671, https://link.springer.com/chapter/10.1007/978-3-031-31153-6_38 2. Meena Chavan, “ A hybrid meta-heuristic ensemble based classification technique speech emotion recognition”, Advances in Engineering Software, Elsevier publication, Volume 180, June 2023 https://doi.org/10.1016/j.advengsoft.2023.103412 3. Meena Chavan, “ Map reduce framework based sequential association rule mining with deep learning enabled classification in retail scenario”, Cybernetics & Systems, Taylor & Francis, Feb 2023, https://doi.org/10.1080/01969722.2023.2166256 4. Meena Chavan, “ An approach for Dos attack detection in cloud computing using Sine cosine- anti coronavirus optimized deep maxout network,” International journal of Pervasive computing and communications, Emerald Publication, Sep2022. https://doi.org/10.1108/IJPCC-05-2022-0197 5. Meena Chavan, “A hybrid swarm intelligence approach for resolving reactive power dispatch issues in power system: Optimal placement and sizing of UPFC,” Advances in Engineering Software, Elsevier Publication vol.170.June2022, https://doi.org/10.1016/j.advengsoft.2022.103149 | | | |

Academic Year: 2021-2022

6. Dr. Meena Chavan, "Attendance system based on radio frequency identification", Int. research journal of Innovations in Engineering & Technology, Volume-5, issue-7, July 2021.
7. Dr. Meena Chavan, "obstacle avoiding robot", Int. Journal of research in Engineering & Science, Volume 9, issue6, July 2021.

Academic Year: 2020-2021

8. Ms. Meena Patil "Kurtosis maximisation for blind speech separation in Hindi speech processing system using swarm intelligence and ICA", Int. J. Biomedical Engineering and Technology, Vol. 33, No. 4, 2020, DOI: [10.1504/IJBET.2020.108991](https://doi.org/10.1504/IJBET.2020.108991)
9. Dr. Meena Chavan, "Alcohol Sensor for Safe Driving", IJERT, Vol. 9 Issue 07, July-2020
10. Dr. Meena Chavan, "Footstep Power Generation using Piezoelectric Sensor and Distribution using RFID", IRJET, Vol. 7 Issue 09, Sep-2020
11. Dr. Meena Chavan, "UART IP Design using VHDL" IJSREM, Vol. 4 Issue 09, Sep-2020
12. Dr. Meena Chavan, "Efficient Embedded System to Control Drunk and Drowsy Driving," Solid State Technology Volume: 63 Issue: 6 Nov. 2020

Academic Year: 2019-2020

13. Dr. Meena Chavan, "Vehicle Security Using Alcohol Sensor", JETIR May 2020, Volume 7, Issue 5
14. Meena Chavan, "IoT based water quality monitoring using STM 32", IJRAR June 2019, Volume 6, Issue 2
15. Meena Chavan, "Biometric Based Electronic Voting Machine (Evm) Using Arduino IDE", IRJET, Vol 6, Issue 6, June 2019
16. Meena Chavan, "Haptic Navigational System", IJIRT, Vol 6, Issue 1 June 2019
17. Meena Chavan, "Automated railway crossing", IJIRT, Vol 6, Issue 1 June 2019

Academic Year: 2018-19

18. Meena Chavan, "Water Quality Monitoring Using FPGA", IJRDT, Vol-

11, Issue-5, May-2019.

19. Meena Chavan, "Reconfigurable low power smart water quality monitoring using FPGA", IJRECE, Vol. 6 Issue 4, Oct- Dec 2018.

20. Meena Chavan, "Survey on Reconfigurable low power smart water quality monitoring using FPGA", IJRECE, Vol. 6 Issue 4, Oct- Dec 2018.

21. Meena Chavan, "Wireless patient monitoring and accidental crisis management system", JETIR, June2018, Vol5, issue6

22. Meena Chavan, "Reconfigurable low power smart water quality monitoring using FPGA", IJRSET, June2018, vol7, issue6.

Academic Year: 2017-18

23. Meena Chavan, "SOBEL edge detection using HDL codes", IJET, Mar-April2018, vol4, issue4.

24. Ms. Meena Patil, "Separation of Hindi source signal in BSS using GDA-AGSO approach", IJMTER, March 2018 Vol5, issue3.

25. Ms. Meena Patil, "Modified GSO Based Kurtosis Maximization Criterion for BSS in Hindi Speech Processing System Help of LDA", International Journal of Engineering and Techniques, Jan – Feb 2018, Volume 4 Issue 1

26. Prof. Meena Chavan, "Hardware Co-simulation of Sobel edge detection using FPGA and System generator", IJRCCE, Nov. 2017, Vol5, issue 11.

27. Prof. Meena Chavan "An efficient data hiding approach on digital color image for secret communication, IJETT, Oct.2017 Vol.52, Issue3.

28. Mrs Meena Chavan, "VLSI based automated digital person counter and smart appliance control system for energy conservation", IJRSET, Aug 2017, Vol6, issue-8.

29. Mrs. Meena Chavan, "Implementation of 16-point radix-4 FFT algorithm", IJAREEIE, Vol6, issue6, June2017

Academic Year:2016-17

30. Prof. Meena Chavan "A review paper on digital image steganography

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| | <p>techniques”, IJRASET, May2017 issue V, vol 5</p> <p>31. Mrs. Meena Chavan, “Alcohol Detection and vehicle control system”,IRJET,May2017,Vol-4,issu-5</p> <p>32. Mrs Meena Chavan, “VLSI based automated digital person counter and smart appliance control system for energy conservation”, IJRCCE, May 2017 Vol5, issu-5.</p> <p>33. Prof. Meena Chavan, “Hardware Co-simulation of Sobel edge detection using FPGA and System generator”,IJRASET, May 2017,Vol5,issue V</p> <p>34. Mrs. M.S.Chavan, “Implementation of 16-point Radix-4 FFT algorithm”, IJAREEIE, April 2017 vol6, issu4.</p> <p>Academic Year: 2015-16</p> <p>35. Mrs. Meena Chavan,“Detection Of Moving Object Using Background Subtraction CT-DWT Domain,” IJECCE, May 2016 Vol7 Issu3.</p> <p>36. Mrs. Meena Chavan, “Compressing Encrypted Images &Data Using Auxiliary Information”, IJECCE, May 2016, Vol7 Issu3.</p> <p>37. Mrs. Meena Chavan, “Over speed alarm system for two wheelers”, IJCR, May2016, Vol 8, Issu 5.</p> <p>38. Mrs. Meena Chavan, “Smart real time pollution monitoring &controlling System using FPGA Spartan 3 and Android”, IJSETR, March 2016 Issu 6 Vol 5.</p> <p>39. Prof. Meena Chavan, “Smart real time pollution monitoring System using FPGA and Android”, IJSART, Dec.2015.Vol1,issu12.</p> <p>40. Meena Chavan, “ A wireless approach towards medical surveillance system”, IJARCCE, Dec 2015 , vol4,issu12.</p> <p>Academic Year: 2014-15</p> <p>41. Mrs. M. S. Chavan ,” FPGA based multifunctional wireless medical surveillance system,” IJARCCE-May2015, ISSN No. 2319-5940</p> <p>42. Mrs. M. S. Chavan ,”Source separation and Echo cancellation using Independent component analysis and DWT” IJAREEIE- May2015, Vol4,isu5 ISSN No. 2320-3765</p> |
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| | <p>43. Mrs. M.S. Chavan,” Blind source separation & echo cancellation using discrete wavelet transform and ICA,” IJSRM-2015, Vol3, issu6 ISSN No. 2321-3418.</p> <p>Academic Year: 2013-14</p> <p>44. Mrs. M. S. Chavan ,” Development of vibration measurement and tilt control ,” IJEEDC-2014,ISSN No.- 2320-2084</p> <p>45. Mrs. M. S. Chavan , “ Finger Print Detection for Medical Application,” IJARCSEE- 2013 ,ISSN No.- 2277-9043</p> <p>International Conference:</p> <p>46. Mrs. M. S. Chavan ,” VLSI based speech synthesis”, ICEVD2008</p> <p>47. Mrs. M. S. Chavan,” GSMbased remote monitoring system”, ICEVD2008</p> <p>National Conference:</p> <p>48. Mrs. M. S. Chavan ,” Eye Ball Tracking Wheel Chair,” NACICE -2013,</p> <p>49. Mrs. M. S. Chavan ,” MIMO Technology to advance Wireless Transmission Networks” NACICE -2013,</p> <p>50. Mrs. M. S. Chavan ,” Wireless Automotive Communications”, NACICE -2013</p> <p>51. Mrs. M .S. Chavan, “Automatic Pantry System Using Zigbee Moudle”, NACICE -2013</p> <p>52. Mrs. M.S. Chavan,”Embedded based safe Hybrid system for cars”, NCECIS-2011</p> <p>53. Mrs. M.S. Chavan,”Solaries 10 os zonar technology for visulization concept” NCECIS-2011</p> <p>National level Symposium:</p> <p>54. Mrs. M.S. Chavan, “4G Technology”.</p> |
| Books Published | Fiber optic communication , B. Tech E&TC Sem-8(SPPU) , Feb23, Tech-Ne0 Publications, ISBN: 978-93-5585-337-2 |
| Professional Memberships | ISTE, Editorial board member for IRJIET, Reviewer board Member for JETIR |
| WorkShop/ Seminar/Conference attended | <p>1. Attended workshop on “Design challenges of IOT with AI & ML applications 2.0, organized by NIT Harimpur, 17th July-21st July 2023.</p> <p>2. Attended FDP on “Implementing IOT& ML applications on Raspberry Pi”, organized by TSPM, Bhiwarbai Sawant College of Engineering& Research, Pune, 3rd July- 7th July 2023.</p> |

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| | <p>3. Attended FDP on “Deep learning & its applications”, organized by MMCOE, Pune, 30th Jan- 4th Feb2023.</p> <p>4. Attended FDP on “VLSI Design & Nanoelectronics: Emerging challenges & opportunities”, organized by Dept. Of ECE, PDPM, IIITDM, Jabalpur during 1st -8th Sep 2022.</p> <p>5. Attended FDP on “Implementation of NEP2020 in higher education”, organized by RKDF University, Bhopal, during 17th-22nd Feb2022.</p> <p>6. Attended FDP on “Research opportunities in Flexible Hybrid Electronics- Manufacturing Processes & Applications”, organized by Dept of Electronics & Communication Engineering, KLUUniversity, Vaddeswaram, Near Vijayawada, Andhra Pradesh, INDIA, during 4th-8th oct2021 .</p> <p>7. Attended STTP on “Internet of Things”, organized by Department of E&TC, Ambabai Talim Sanstha's Sanjay Bhokare Group of institutes, Miraj, during 27th Sept. 2021 to 02nd Oct 2021.</p> <p>8. Attended FDP on “Research Methodology, Research Publications And Patent Filing” , organized by Department of Electronics & Telecommunication Engineering, Sharad Institute of Technology College of Engineering, Yadrav (Ichalkaranji) during 20th Sept – 24th Sept 2021</p> <p>9. Attended ATAL online FDP on “Industrial Internet of Things”, organized by Swami Keshvanand Institute of Technology, Management & Gramothan , from 7th June to 11th June2021.</p> <p>10. Attended ATAL Online FDP on “Capacity Building” organized by Dr H. S. Gour Vishwavidyalaya (A Central University),sagar, M.P. from 5thOct-9thOct 2020</p> <p>11. Attended ATAL Online FDP on “Design Thinking” by KKWIEER, Nashik, from 21st Sep-25th Sep 2020.</p> <p>12. Attended One Week Online FDP on “Advances and Research Opportunities in E&TC Engineering "from 10/06/2020 to 14/06/2020 Organized by Department of Electronics & Telecommunication Engineering, SVERI's College of Engineering Pandharpur.</p> <p>13. Attended One week online Faculty Development Program on “R Programming” organized by Department of MCA, Indira College of Engineering and Management, Pune in association with Spoken Tutorial, IIT Bombay from 11th May 2020 to 15th May 2020.</p> <p>14. Attended online sessions of IIC, MHRD from 28th April 2020 to 22nd May2020.</p> |
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| | <p>15. Attended one week STTP “Assessment and Evaluation under Outcome Based Education”, NITTTR from 10th to 14th June2019.</p> <p>16. Successfully completed NPTEL- AICTE faculty development program on “Cloud Computing”, Feb-April 2019.</p> <p>17. Attended faculty development program on,” Electronic Design Automation with Mentor Graphics back end tool”, At BVCOEW, Pune from 21st to 23rd Feb 2019.</p> <p>18.Attended National Teacher’s Congress-2 at MIT WPU, Pune, from 10-12th Jan2018</p> <p>19.AttendedWorkshop , ‘Springer Author’, at BVUCOE,Pune Mar2017</p> <p>20. Successfully completed Short term training program on “Recent trends in advanced communication and Embedded Systems from BV’s COE, Kolhapur from 24-29th Dec.2016.</p> <p>21.Attended one week Faculty Development Program On” Advanced Embedded Technology” At SIT COE, Yadrav, Ichalkaranji, Dec.2016</p> <p>22. Attended Workshop on “photonic Design and simulation tools” at BVUCOE, Pune, Nov. 2015.</p> <p>23. Attended one week Workshop on “IC nanometer design using Mentor Graphics tool” at BVUCOE,Pune 31Aug-Sep 2015</p> <p>24. Workshop” Secrets of Guru”, BVDUCOE,Pune, Aug 2015.</p> <p>25. Workshop “Women Empowerment,” at BVDUCOE,Pune,Feb.2015.</p> <p>26.Workshop “Embedded system design using ARM cores”, PICT, Pune Dec. 2014</p> <p>27.Workshop “ Fundamentals of Cloud Computing”, BVDUCOE,Pune Aug 2013</p> <p>28.Workshop “LABVIEW” ,BVDUCOE,Pune Jan.2013</p> <p>29. Certificate course in “CMOS VLSI Design”, PICT, Pune,Sep. 2012</p> <p>30.Seminar “MATLAB &Simulink”, Mathworks,Pune 2011</p> <p>31.Workshop “ROBOTICS”,MIT,Pune 2011</p> <p>32. STTP “Advanced VLSI &Microelectronics Design”, MIT,Pune Mar2010</p> <p>33.Workshop “Hands on PIC Microcontroller”SKN,Pune, Feb 2010</p> <p>34.Workshop “3G Technology”, PVPIT,Pune 2009</p> <p>35.Attended and completed five days short term training program(STTP) on</p> |
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| | <p>“Advanced VLSI” from Bharati Vidyapeeth University College of Engineering, Pune.2008</p> <p>36. Completed a three days workshop on FACE (Faculty Awareness Camp on Entrepreneurship) from Bharati Vidyapeeth University College of Engineering, Pune. 2008.</p> <p>37.Workshop “Teaching Engineering Effectively”, BVDUCOE,Pune2006</p> |
| Achievements | <ul style="list-style-type: none"> • 1 patent Granted • 02 patents published • Ph. D guide Bharati Vidyapeeth (Deemed to be University) • First prize for project at India International Science Festival(IISF)-2018, Lucknow. |
| Extra Activities | <ol style="list-style-type: none"> 1. Purchase Committee Member. 2. Execution Committee member BV(DU) COE Pune for “ Margdarshak Scheme-AICTE” 3. Admission committee member. 4. NBA coordinator at Dept. 5. Bharatiyam- Techfest committee member. 6. Workshop coordinator (ESDAP-15,ESD-16,ESD&IoT-17,PCB design & Fabrication). 7. Unit Test Coordinator. 8. Participated in Swachh Bharat Abhiyan Organized By Department of Electronics BVUCOE at Vitthalwadi,Pune. 9. Participated in Swachh Bharat Abhiyan Organized By BVUCOE at Pune Station. 10. Participated in ‘Beti Bachao, Beti Padhao’ Abhiyan at Khedshivapur. 11. Board of Studies Member.(2017-2021) 12. Department NBA coordinator.(Since2018) 13. Conducted technical event “Engagement of People with Science & Technology”, at Prerna School and Nav Maharashtra School, Dhankawadi, Pune 14. Guardian Faculty member. 15. Academic Committee member. 16. Library Committee member. |

Patent Details:

| Sr. No | Title of Invention | Inventor name | Patent ID/ Application number | Status |
|---------------|--|----------------------|--|---|
| 1. | A system for monitoring atmospheric pollution | Meena Chavan | 201621045103 | Granted 26/04/2023, Published 06/07/2018 |
| 2. | A method of detecting a moving object | Meena Chavan | 201621045099 | Published 06/07/2018 |
| 3. | Bigdata Technique for customer relationship management to improve customisation services | Meena Chavan | 202221028456 | Published 03/06/2022 |