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Name – Dr. Sharda Prakash Tondare

Qualification- PhD (Electronics and Telecommunication)

Experience-21 Years

Portfolio at college level:

1. Books and Journal (Hard Copy) Purchase, In-Charge, Central Library.
2. Member of Scrutiny Committee, Admission Process (B. Tech. All Branches).
3. Counselor, CRM, Admission Process

Conferences:

1. 2nd National conference on “**Women Health- Challenges and Solutions**”, on 28th & 29th November 2015, jointly organized by Sharada Shakti, Pune, Tilak Ayurved Mahavidyalaya, Pune and MES institutes of Health Sciences, Pune.
2. 3rd International Conference **NANOCON 014** on “**Smart Materials, Composites, Applications and New Innovations**”, on 14th & 15th October 2014, organized by Bharati Vidyapeeth University, Pune, in association with North Carolina A& T State University, Greensboro, USA, Tuskegee University, Alabama, USA, University of Rokushima, Japan and Centre for Materials for electronics Technology (C-MET) Department of Information Technology, Government of India, Pune.
3. National Conference on “**Advance Technologies for Secured Communication using 4G and LTE (ATSC-2014)**”, on 5th and 6th February 2014, organized by Department of Electronics and Telecommunication

Engineering, Bharati Vidyapeeth Deemed University (College of Engineering), Pune.

4. National Conference on “**Instrumentation and Communication Engineering (NACICE-2013)**”, on 18th and 19th April 2013 organized by Department of Electronics Engineering, Bharati Vidyapeeth Deemed University College of Engineering, Pune.
5. 1st International Conference **NANOCON 010** on “**Nano Technology-Materials and Composites for Frontier Applications**”, October 2010, organized by Bharati Vidyapeeth University, Pune, in association with North Carolina A& T State University, Greensboro, USA, Tuskegee University, Alabama, USA, University of Rokushima, Japan and Centre for Materials for electronics Technology (C-MET) Department of Information Technology, Government of India, Pune.

Publications:

Journals:

1. Hole S.R., Kute U.T., Upadhey S., Morbale J.S., Tondare S.P., Saini D.J., “Design of an Iterative model incorporating transformer-based self-attention and proximal policy optimization for solar power systems” Journal of Computational Technologies, ISSN: 1560-7534, Volume-30, Issue-3, December-2025.
2. Aparna Patil, Mangal Patil, Sharda Tondare, Prajakta Naregalkar, Anuradha Nigade, Sonali Pawar, Jyoti Morbale, “Harnessing the MERN stack for scalable E-commerce website design: A full- stack approach with MongoDB, Node.js, Express.js, and React.js”, Journal of Integrated Science and Technology, March-2025.
3. Dr. M.V. Patil, Prajakta Naregalkar, Mrs. Sharda Tondare, Mrs. J.S. Morbale, Aparna S. Patil, “Estimation of breathing signal and the respiratory parameters from the speech recordings using honey badger-based modular neural system” Multimedia Tools and Applications, ISSN:1573-7721, February 2024.
4. Dr. Dilip Saini, Mrs. A.S. Nigade, Mrs. S.P. Tondare, Mrs. J.S. Morbale, M. Gangwar, “Improve qos for multi-body sensor analytics in smart healthcare system using machine

learning algorithm”, Journal of Interdisciplinary Mathematics, ISSN-0972-0502, September-2023.

5. Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, Ms. Aparna S. Patil, Isha Mandawkar “Covid-19 Face Mask Detection and Social Distancing at Public Places”, Industrial Engineering Journal, ISSN: 0970-2555, Volume 52, Issue 01, PP. 108-113, January 2023.
6. Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, Ms. Aparna S. Patil, Sanidhya Singh, Kunal Tyagi, Jyotprakash Shukla, “Design and Build Control Panel for Vertical Axis Wind Turbine Rotating at 700 RPM”, Industrial Engineering Journal, ISSN: 0970-2555, Volume 52, Issue 01, PP. 114-117, January 2023.
7. Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, “IoT Baased Smart Stick for Visually Impaired”, International Journal of Engineering and Techniques, ISSN: 2395-1303, Volume 08, Issue 04, PP. 155-163, August 2022.
8. Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, Ms. Aparna S. Patil, “Covid-19 Face Mask Detection and Social Distancing at Public Places”, International Journal of Engineering and Techniques, ISSN: 2395-1303, Volume 08, Issue 05, PP. 155-163, September 2022.
9. Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, Ms. Aparna S. Patil, “Design and Build Control Panel for Vertical Axis Wind Turbine Rotating at 700 RPM”, International Journal of Engineering and Techniques, ISSN: 2395-1303, Volume 08, Issue 05, PP. 155-163, September 2022.
10. Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, “Role of Cloud Computing in Commerce Applications, Future Challenges”, Design Engineering (Toronto), ISSN: 0011-9342, Volume , Issue 09, PP. 3676-3681, December 2021. (I F 1.0)
11. Mrs. S. P. Tondare, Shamnhavi Chaturvedi, Ojasvitaa Verma, Sidhhi Nagar, “Air and Noise Pollution Monitoring System using IoT”, International Journal of All Research Education and Scientific Methods, ISSN: 2455-6211, Volume 09, Issue 08, PP.1182-1186, August 2021.

- 12.** Mrs. S. P. Tondare, Ahmed Rashad Alabsi, Sayed Najaf Naqvi, “Automated Hearing Aid”, International Journal of All Research Education and Scientific Methods, ISSN: 2455-6211, Volume 09, Issue 07, PP. 3394-3398, July 2021.
- 13.** Mrs. S. P. Tondare, Dr. S.P. Gaikwad, Shreya Gupta, Sonal Mandal, Sakshi Agrawal, “Smart Covid-19 Detection System Using Max30100 and MPU6050 Sensors”, International Journal of All Research Education and Scientific Methods, ISSN: 2455-6211, Volume 09, Issue 07, PP. 3756-3761, July 2021.
- 14.** Mrs. S. P. Tondare, Himanshu Chetiwal, Satyam Soni, “UV Light Sterilizer”, International Journal of Scientific Research in Engineering and Management, ISSN: 2582-3930, Volume 04, Issue 07, PP. 1-4, July 2020.
- 15.** Mrs. S. P. Tondare, Siddhant Mishra, Ram Mishra, Harsh Singh, “Vital Parameters Measurement through Wireless Communication System”, International Research Journal of Engineering and Technology, ISSN: 2395-0056, Volume 07, Issue 07, PP. 1-5, July 2020.
- 16.** Mrs. S. P. Tondare, Dr S.P. Gaikwad, Rishabh Anand, Vidit Rustagi, Ashutosh Sharma, “Finger Gesture Vocalizer” International Journal of Scientific Research in Engineering and Management (IJSREM), Vol. 03, Issue: 06, PP. 1-6, December 2019.
- 17.** Mrs. S. P. Tondare, Haitham Saleh, Nabhansul Thakur, Sameen Akbar, “Patient Monitoring System”, International Research Journal of Engineering and Technology, ISSN: 2395-0056, Volume 06, Issue 06, PP. 3118-3121, June 2019.
- 18.** Mrs. Sharda P. Tondare, Dr. Mrs. S.P. Gaikwad, Harshlata Punse, “Smart Water Management with Biogas Production”, Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Volume 6, Issue 6, PP. 620-625, June-2019.
- 19.** Mrs. Sharda P. Tondare, Dr. Mrs. S.P. Gaikwad, Satyam Chourey, Shubham Mishra, Arshdeep, “Bluetooth Controlled Electronics Home Appliances”, International journal of Innovative Research in Technology”, ISSN: 2349-6002, Volume 6, Issue 6, June-2019.
- 20.** Mrs. Sharda P. Tondare, Dr. Mrs. S.P. Gaikwad, Arshdeep, “Accident Detection Through Mobile Phone”, International journal of Innovative Research in Technology”, ISSN: 2349-6002, Volume 6, Issue 6, PP. 916-919, June-2019.

- 21.** Mrs. Sharda P. Tondare, Dr. Mrs. S.P. Gaikwad, Neha Bagale, “MIMO-OFDM for High Rate Underwater Communication”, Research Review International Journal of Multidisciplinary, ISSN 2455-3085 (Online), ISSN 2455-3085 (Online), Volume-3, Issue-12, PP. 105-108, December 2018.
- 22.** Mrs. Sharda P. Tondare, Dr. S. P. Gaikwad, Abhinav Shukla, Amritanshu, Diksha Sharma, “A 2-Dimensional optical router for optical network on Chip”, International Research Journal of Engineering and Technology, e-ISSN: 2395-0056, Volume 1, Issue 11, PP. 1942-1944, June 2018.
- 23.** Mrs. Sharda P. Tondare, Mrs. S.P.Gaikwad, Mamta, Mohini Pandey, Prerna Bisen, “Data Acquisition From Heart Through Wireless Telemetry”, International journal of Innovative Research in Computer and Communication Engineering, ISSN (Online): 2320-9801, Volume-6, Issue-5, PP. 5539- 5543, May 2018.
- 24.** Mrs. Sharda P. Tondare, Mrs. S.P.Gaikwad, Shrushti Chavan, Prarthana Gadekar, Manjunath Patil, “ Solar Powered Non-Invasive Pulse Oximeter and Heart Rate Meter”, International journal of Innovative Research in Computer and Communication Engineering, ISSN (Online): 2320-9801, Volume-6, Issue-5, PP. 5279-5285, May 2018.
- 25.** Mrs. Sharda P. Tondare, Mrs. S.P.Gaikwad, Ruchi Vyawahare, “Vital Parameter monitoring for health through IoT Using Biosensors and Medicine Box”, International journal of Innovative Research in Computer and Communication Engineering, ISSN: 2320-9801, Volume-6, Issue-4, PP. 3302-3307, April 2018.
- 26.** Mrs. Sharda P. Tondare, Mamta, Mohini Pandey, Prerana Bisen, “ECG Signal Transmission Through Wireless Telemetry”, International Journal of Innovative Research in Computer and Communication Engineering, ISSN: 2320-9801, Volume-6, Issue-4, PP. 1-4, April 2018.
- 27.** Mrs. Sharda P. Tondare, Ruchi Vyawahare, “Vital Parameter monitoring for health through IoT Using Biosensors and Medicine Box”, International Journal of Scientific and Engineering Research, ISSN: 2320-9798, Volume-6, Issue-4, PP. 3302- 3307, April 2018.
- 28.** Mrs. Sharda P. Tondare, Mrs. S.P.Gaikwad, Priyadarshani Meshram, “Design and Realization of Automatic Video-based Docking Structure for Home Surveillance Robots by using Raspberry Pi”, International Journal of Scientific and Engineering Research, ISSN: 2229-5518, Volume-8, Issue-11, November 2017.

- 29.** Mrs. Sharda P. Tondare, Mrs. S.P.Gaikwad, Ruchi Vyawahare, “Vital Parameter monitoring for health through IoT Using Biosensors and Medicine Box”, International Journal of Scientific and Engineering Research, ISSN: 2229-5518, Volume-8, Issue-10, PP. 1789-1793, October 2017.
- 30.** Mrs. Sharda P. Tondare, Mrs. S.P.Gaikwad, Abhijeet, “An Electronically Controlled Damper System to Reduce the Roll and Pitch in Automobiles”, International Research Journal of Engineering and Technology, p-ISSN: 2395-0072, Volume-4, Issue-5, PP. 1- 6, May 2017.
- 31.** Mrs. Sharda P. Tondare, Poornima, Ulfat Mujawar, “Sleep Inducer”, International Research Journal of Engineering and Technology, p-ISSN: 2395-0072, Volume-4, Issue-4, PP. 2067-2070, April 2017.
- 32.** Mrs. Sharda P. Tondare, Divya Singh, hyuthika Sen, Yashpriya “Pain Relief through Electrical Stimulation”, International Research Journal of Engineering and Technology, p-ISSN: 2395-0072, Volume-4, Issue-4, PP. 2718-2722, April 2017.
- 33.** Mrs. Sharda P. Tondare, Diksh Bolshetti, Sonupriya Langote, Sonali Lokare, “Hearing Aid”, International Research Journal of Engineering and Technology, p-ISSN: 2395-0072, Volume-4, Issue-4, PP. 2690-2695, April 2017.
- 34.** Mrs. Sharda P. Tondare, Dr. Mrs. S.P. Gaikwad, Anshika Mishra, Ayushi Goel, Sanjoli Omar, “Air pollution and Noise Pollution Detector Using ESP8266”, International Journal of Scientific Research in Engineering and Management, ISSN: 2590-1892, Volume 3, Issue 6, PP. 1-7, June-2016.
- 35.** Mrs. Sharda P. Tondare, Rahul Kumar, Navin Kumar, “Transcutaneous Electrical Nerve Stimulation using Microcontroller”, International Journal of Engineering Science and Computing, ISSN: 2321-3361, Volume-6, Issue-5, PP.5954-5996, May 2016.
- 36.** Mrs. Sharda P. Tondare, Trinetra Naik, Prachi Samarth, “Finger Plethysmograph to Monitor Heart Rate”, International Journal of Research in Engineering and Technology, eISSN: 2319-1163, Volume-5, Issue-5, PP.334-336, May 2016.
- 37.** Mrs. Sharda P. Tondare, Shradhha Bunnan, Gagan Pratap Singh, “Ultrasonic Blind Walking Stick for the Visually Impaired”, International Journal of Research in Engineering and Technology, ISSN: 2319-1163, Volume-5, Issue-5, PP. 350-352, May 2016.

- 38.** Mrs. Sharda P. Tondare, Priyadarshani Meshram, “Automatic Docking System for Home Surveillance Robots”, International Journal of Scientific & Engineering Research, ISSN: 2229-5518, Volume-7, Issue-5, PP. 1-5, May 2016.
- 39.** Mrs. Sharda P.Tondare, Ratnesh Kumar, “An AC LED Driver with Improved Harmonic Distortion and Power Factor”, International Journal of Scientific & Engineering Research, 2229-5518, Volume-7, Issue-5, PP. 1532-1538, May 2016.
- 40.** Mrs. Sharda. P. Tondare, Akanksha Fadnavis, “Automated Peritoneal Dialysis: A Cost effective Solution”, International Journal of Science and Research, Volume-3, Issue - 11, November 2014.
- 41.** Mrs. Sharda. P. Tondare, Akanksha Fadnavis, “An easy and Economical Option for Dialysis Patients to Solve their PD problems: Automated Peritoneal Dialysis”, International Journal of Advanced Research in Computer Science and Software Engineering, Volume-4, Issue -9, September 2014.
- 42.** Mrs. Sharda. P. Tondare, “Body Composition Analysis: An Overview with Bioimpedance”, ACADEMECIA an International Multidisciplinary Research Journal, Volume-2, Issue -12, December 2012.
- 43.** Mrs. Sharda. P. Tondare, “Multi-Frequency Bioimpedance Monitoring Technique using Network Analyzer for body composition analysis”, International Journal of Engineering Research and Technology, Volume-1, Issue -6, August 2012.

International Conference (s):

- 1)** Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, Ms. Aparna S. Patil, “Design and Build Control Panel for Vertical Axis Wind Turbine Rotating at 700 RPM”, 3rd Online/Offline Mega International Conference on Continuity, Consistency and Innovation in Applied Sciences and Humanities, organized by Department of Science and Humanities, St. Martin’s Engineering College, Dhulapally, Secunderabad, T.S, India, September 2022.
- 2)** Mrs. Sharda P. Tondare, Jyoti S. Morbale, Anuradha S. Nigade, Sonali K. Pawar, Ms. Aparna S. Patil, “Covid-19 Face Mask Detection and Social Distancing at Public Places”, 3rd Online/Offline Mega International Conference on Continuity, Consistency and Innovation in Applied Sciences and Humanities, organized by Department of Science and

Humanities , St. Martin's Engineering College, Dhulapally, Secunderabad, T.S, India, September 2022.

- 3) Mrs. Sharda. P. Tondare, Mrs. S.P. Gaikwad, "Nanotechnology in Cochlear Implants using Nano-Biomaterial for Drug Delivery and Stimulation", Proceedings of Nano Technology- Materials and Composites for Frontier Applications, BVDU, Pune, October 2010.
- 4) Mrs. Sharda. P. Tondare, Mrs. S.P. Gaikwad, "Nanotechnology and Its Advent in electronics and Communication Networks", Proceedings of Nano Technology- Materials and Composites for Frontier Applications, BVDU, Pune, October 2010.

National Conference (s):

- 1) Mrs. Sharda. P. Tondare, Rohan Aurora, "Nanotechnology in Cochlear Implants using Nano-Biomaterial for Drug Delivery and Stimulation", Proceedings of Emerging Trends in Biological and Information Sciences, Swami Vivekanand Mahavidyalaya, Udgir (M.S.), March 2011.
- 2) Ms. Sharda V. Gourshete, U. R. Bagal, S. H. Sanghavi, Arun Chavan, " Design and Development of Body Composition Analyzer" Souvenir, Emerging Trends in Biomedical Engineering, Birla Institute of Technology, Mesra, Ranchi, April-2005.
- 3) Ms. Sharda V. Gourshete, C.A. Chougule, U. R. Bagal, "System Development for Bio-electrical impedance Measurement for Body Composition Analyzer", Proceedings of Advances in Electronics and Telecommunication, College of Engineering, Osmanabad (M.S.), February 2005.

Patents/ Copyright:

Nil

Projects/ Achievements:

1. Nominated as Outstanding IEEE Student Branch Counselor by IEEE Pune Section.
2. Certificate course in Programming- Visual Basic 6.0 and LabVIEW.

3. NPTEL Online Certification Course -Electronic Modules for Industrial Applications Using Op-Amps.
4. NPTEL Online Certification Course –Sensors and Actuators.

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