

BIO DATA

1. Full Name : **Prof. Shivaprasad Krishnakant Tilekar**
2. Father's Name : Shri. Krishnakant Shivram Tilekar
3. Present Designation : Professor and Principal
4. Date of Appointment in the College : 26th Dec. 1995.
5. Educational Qualification : M.Sc. (Electronics), M.Phil. (Embedded System)
: Ph.D. (AMS SoC)
6. Address (Official) : Post Graduate Department of Electronics
: Shankarrao Mohite Mahavidyalaya, Akluj.
: Tal. Malshiras, Dist. Solapur 413 101.
: Phone No. (02185) 222088.
7. Address (Residential) : 'Matoshri', Sujaynagar, A/P. Akluj.
: Tal. Malshiras, Dist. Solapur 413 101
: Mobile No. 9423593658
8. E-mail : t_shivaprasad@rediffmail.com
9. Place of Origin : At. Shankarnagar, Post. Yeshwantnagar
: Tal. Malshiras, Dist. Solapur 413 108
10. Date of Birth : 10th June 1972.
11. Place of Birth : A/P. Byculla, Mumbai. 400 027
12. Caste & Category : Hindu Mali & OBC
13. Blood Group : B +ve.

1. Academic Qualification

| Sr No | Name of Exam. | Specialization | Board/ University | Marks in % | Class/Grade Obtained | Year of passing |
|-------|---------------|----------------|------------------------------|------------------|------------------------------|-----------------|
| 1 | S.S.C. | -- | Pune Board | 73.85 | First Class | 1987 |
| 2 | H.S.C | PCBM | Pune Board | 75.00 | First Class with Distinction | 1989 |
| 3 | B.Sc. | Electronics | Shivaji University, Kolhapur | 70.00 | First Class with Distinction | 1992 |
| 4 | M. Sc. | Electronics | Shivaji University, Kolhapur | 60.00 | First Class | 1994 |
| 5 | M. Phil. | Electronics | Solapur University, Solapur | 4.91 grade point | A | 22 Jan. 2009 |
| 6 | Ph.D. | Electronics | Solapur University, Solapur | -- | -- | 21 Nov. 2015 |

1. Primary Education : “Zilha Parishad Primary School”
: A/P. Yeshwantnagar, Tal. Malshiras
: Dist. Solapur. 413118
2. Secondary Education : “Maharshi Shankarrao Mohite Prashala”
: A/P. Yeshwantnagar, Tal. Malshiras
: Dist. Solapur. 413118
3. High-Secondary Education : “Sadashivrao Mane Vidyalaya”
: A/P. Akluj, Tal. Malshiras, Dist. Solapur- 413101.
4. Under Graduate Level : Shankarrao Mohite Mahavidyalaya
: A/P. Akluj, Tal. Malshiras, Dist. Solapur- 413101.
5. Post Graduate Level (M.Sc.) : Department of Electronics
: Shivaji University, Kolhapur. 416 004.
6. Post Graduate Level (M.Phil. & Ph.D) : Post Graduate Department of Electronics
: Shankarrao Mohite Mahavidyalaya
: A/P. Akluj, Tal. Malshiras, Dist. Solapur- 413101.

2. Teaching Experience

- U.G. - **29 Years**
- P.G. - **18 Years**

| Sr. No. | Name of the Institute / College | U.G. / P.G. Level | Nature of the Post (Part-Time, C.H.B./Full Time, Visiting Faculty) | Period From – To |
|----------------|--|--------------------------|---|-------------------------|
| 1 | Shankarrao Mohite | UG | Full Time | Since 1995 |
| | Mahavidyalaya, Akulj | PG | As per Govt. rule | Since 2006 |

- Ad-Hoc Recognition as UG Teacher for B.Sc. Electronics from Shivaji University, Kolhapur (Letter No. I-File-47-T-3/4943, Dt. 23/02/1999).
- Permanent Recognition as UG Teacher for B.Sc. Electronics from Shivaji University, Kolhapur (Letter No. Affiliation/T-5/F-47/SJK/3029, Dt. 05/07/2002).
- Permanent Recognition as PG Teacher for M.Sc. Electronics from Solapur University, Solapur (Letter No. SOL/UTY/Affi/364/1045, Dt. 07/06/2006).

3. Research

- Research Papers Published In National/International Journals : **53**
- Book published by Lambert Academic Publisher (LAP) : **05**
- Research Papers Published in Proceedings of the Conference/Seminars : **34**
- Research Papers Presented In National/State Conferences/ Seminars : **96**
- Research Papers Presented In International Conferences/ Seminars : **11**
- Research Papers Presented In International (Abroad) Conferences/Seminars : **01**
- Students working for Ph. D. Degree : **03**

M.Phil. Degree

- 1) Date of Registration for M.Phil. : **24/10/2005**
- 2) Name of the University : Solapur University, Solapur
- 3) Title of M.Phil. Dissertation : Development Of Microcontroller Based System For Measurement Of Initial Permeability Of Magnetic Materials.
- 4) Teacher Fellowship : Award from University Grants Commission (UGC) WRO, Pune under Xth plan of FIP.
- 5) Period of Fellowship : 14th Oct. 2005 to 13th Oct. 2006
- 6) Date of Dissertation Submission : 08/08/2007.
- 7) Date of Degree declaration : **22/01/2009.**
- 8) Name of Research Guide : Prof. Dr. B.P. Ladgaonkar
: Associate Professor & Head,
: PG Department of Electronics
: Shankarrao Mohite Mahavidyalaya, Akulj

Ph.D. Degree

- 1) Date of Registration : **10th Oct. 2010**
- 2) Name of the University : Solapur University, Solapur
- 3) Title of Ph.D. Work : Synthesis Of Mixed-Signal Based SoC: An Approach
: To Physical Parameter Measurement
- 4) Teacher Fellowship : Award from University Grants Commission (UGC)
: WRO, Pune under XIIth plan of FIP.
- 5) Period of Fellowship : 22nd Feb. 2014 to 21st Feb. 2016.
- 6) Actual Period of Fellowship : 22nd Feb. 2014 to 30th March 2015.
- 7) Date of Thesis Submission : 28/03/2015.
- 8) Date of Degree declaration : **21/11/2015.**
- 9) Name of Research Guide : Prof. Dr. B.P. Ladgaonkar
: Associate Professor & Head,
: PG Department of Electronics
: Shankarrao Mohite Mahavidyalaya, Akluj

Minor Research Projects (02)

a. Completed

1. Title : Development Of Microcontroller Based Embedded
: System For Measurement Of Magnetic
Parameters.
2. Funding Agency : The University Grants Commission (WRO) Pune.
: F.No. 47-008/06 Dt. 23/02/2007
3. Amount Sanctioned : Rs. 1,00,000 (Rs. One Lakh only)
4. Date of starting : 01/07/2007
5. Date of completion : 31/12/2010

b. Completed

1. Title : Development of Analog and Mixed-Signal Based SoC:
: For Measurement of Physical & Chemical Parameter
2. Funding Agency : The University Grants Commission (WRO) Pune.
: F.No. 47-033/12(WRO) Dt. 04/02/2013
3. Amount Sanctioned : Rs. 1,16,000 (Rs. One Lakh Sixteen Thousands only)
4. Period of the project : Two years
5. Date of starting : 15/03/2013
6. Date of completion : 14/03/2015

Research Recognition

- Solapur University, Solapur as Research Guide for M. Phil. in Electronics. (Letter No. SUS/PGBUTR/6592, Date – 02 Feb. 2010).
- Solapur University, Solapur as Research Guide for Ph.D. in Electronics. (Letter No. SUS/ARD/Ph.D. Se-I/2019/1433, Date – 15 Feb. 2019).

Research Guidance

Students working for Ph. D. Degree : 03

| Sr. No. | Candidate Name | Date of Registration | Title of Research work |
|---------|--------------------------|----------------------|--|
| 1. | Navanath Narayan Kumbhar | 03/07/2021 | Development of VLSI based SoC Deploying Advanced Computing Device: An Approach to Biomedical Parameter Measurement |
| 2. | Ranvir Anand Ghate | 03/07/2021 | Development of Internet of Things Based Embedded System: An Approach to Measure Signal Parameters. |
| 3. | Shailaja Arvind Tingare | 05/07/2021 | Development Of Analog Mixed Signal Programmable SoC For Monitoring Aqua Parameters. |
| 4. | | | |

4. Books / Booklets Published: 05

| Sr. No. | Title of the Book | Whether Text/Ref/ Edited Book | Publisher & Year of Publication | ISBN/EAN | Author/s |
|---------|--|-------------------------------|--|---|--|
| 1. | Analog and Mixed Signal Based System on Chip | Reference | LAP Lambert Academic Publishing 15/10/2020 | ISBN-13: 978-620-2-92143-5 ISBN-10: 6202921439 EAN: 9786202921435 | Shivaprasad Tilekar Prashant ManeDeshmukh Sachin Chavan |
| 2. | Advanced Wireless Sensor Network for Industrial Applications | Reference | LAP Lambert Academic Publishing 11/09/2020 | ISBN-13: 978-620-2-80112-6 ISBN-10: 6202801123 EAN: 9786202801126 | Prashant Mane Deshmukh Sachin Chavan Shivaprasad Tilekar |
| 3. | Wireless Senor Network and Its Applications | Reference | LAP Lambert Academic Publishing 17/09/2020 | ISBN-13: 978-620-2-79832-7 ISBN-10: 6202798327 EAN: 9786202798327 | Sachin Chavan Shivaprasad Tilekar Prashant Mane-Deshmukh |
| 4. | Electronic Instrumentati on for Initial Permeability | Reference In English | LAP Lambert Academic Publishing | ISBN : 978-620-3-02672-6 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |

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|----|--|-------------------------|--|---|---|
| | | | 11/09/2020 | | |
| | Elektronische instrumentatie voor initiële permeabiliteit | Reference In Dutch | LAP Lambert Academic Publishing 08/12/2020 | ISBN-13: 978-620-3-09067-3 ISBN-10: 6203090670 EAN: 9786203090673 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| | Instrumentation électronique pour la perméabilité initiale | Reference In French | LAP Lambert Academic Publishing 07/12/2020 | ISBN-13: 978-620-3-08934-9 ISBN-10: 6203089346 EAN: 9786203089349 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| | Elektronische Instrumentierung für Anfangspermeabilität | Reference In German | LAP Lambert Academic Publishing 08/12/2020 | ISBN-13: 978-620-3-08931-8 ISBN-10: 6203089311 EAN: 9786203089318 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| | Strumentazione elettronica per la permeabilità iniziale | Reference In Italian | LAP Lambert Academic Publishing 08/12/2020 | ISBN-13: 978-620-3-08935-6 ISBN-10: 6203089354 EAN: 9786203089356 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| | Elektroniczne przyrządy do wstępnej przepuszczalności | Reference In Polish | LAP Lambert Academic Publishing 08/12/2020 | ISBN-13: 978-620-3-08939-4 ISBN-10: 6203089397 EAN: 9786203089394 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| | Instrumentação Eletrônica para Permeabilidade Inicial | Reference In Portuguese | LAP Lambert Academic Publishing 08/12/2020 | ISBN-13: 978-620-3-08940-0 ISBN-10: 6203089400 EAN: 9786203089400 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| | Instrumentación electrónica para la permeabilidad inicial | Reference In Spanish | LAP Lambert Academic Publishing 07/12/2020 | ISBN-13: 978-620-3-08933-2 ISBN-10: 6203089338 EAN: 9786203089332 | Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil |
| 5. | Electronic Instrumentation for AC Susceptibility | Reference In English | LAP Lambert Academic Publishing | ISBN : 978-620-3-20163-5 | Suhas Patil Shivaprasad Tilekar Aparna Pawar |

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|--|-------------|--|------------|--|--|
| | Measurement | | 11/09/2020 | | |
|--|-------------|--|------------|--|--|

5. Research Publications

5.1 Research Papers Published in National/International Journals (53).

| Sr. | Authors | Title of research paper | Name of Journal | Year | P. No. |
|----------------|---|---|---|----------------|---------|
| 2007-08 | | | | | |
| 1. | B.P. Ladgaonkar S.K. Tilekar A.S. Vaingankar | PC based system for magnetic permeability measurement. | Journal of Instrumentation Society of India, (ISSN 0970-9983) | 38 (3) 2008 | 163-175 |
| 2010-11 | | | | | |
| 2. | S.K. Tilekar S.N. Patil S.S. Shaikh A.M. Pawar B.P. Ladgaonkar | Development and Implementation of An Embedded System to Measure Initial Permeability of Magnetic Materials | International Journal of Electronic Engineering Research, (ISSN 0975-6450) Research India Publications | 3 (1) 2011 | 21-28 |
| 2011-12 | | | | | |
| 3. | S.N. Patil, S.K. Tilekar and B.P. Ladgaonkar | Development of LPC 2378 Based an Embedded System for Precision Measurement of Displacement | International Journal of Industrial Engineering Practice, Serial Publications, New Delhi (ISSN 0974-7745) | 4 (2) 2012 | 59-61 |
| 2012-13 | | | | | |
| 4. | B.P. Ladgaonkar, S.N. Patil and S.K. Tilekar | Development Of Ni-Zn Ferrite Based Smart Humidity Sensor Module By Using Mixed Signal Programmable System-On-Chip | Applied Mechanics and Materials, Trans Tech Publications, Switzerland (ISSN: 1662-7482) | 310 2013 | 490-493 |
| 2013-14 | | | | | |
| 5. | S. K. Tilekar and B. P. Ladgaonkar | Designing of Mixed Signal based Programmable System on Chip for temperature compensated pH Measurement | International Journal of Scientific and Engineering Research, France (ISSN 2229-5518) | 4 (6) 2013 | 672-678 |
| 6. | G. B. Bhagat, S. K. Tilekar and S. A. Pawar | Development of AVR Microcontroller Based Temperature Control System for Greenhouse | International Journal of Advances in Managements, Technology and Engineering Sciences, (ISSN 2249-7455) | 3 1(3) 2013 | 64-67 |
| 2014-15 | | | | | |
| 7. | S. K. Tilekar , Abhay Tambe, S. S. Shiakh, S. N. Patil, P. V. Mane- Deshmukh, S. C. Pathan and B. P. Ladgaonkar | Analog Mixed Signal Based SoC for Measurement of AC Electrical Conductivity of Water | International Journal of Scientific and Engineering Research, France, (ISSN 2229-5518) | 5 (8) 2014 | 474-478 |
| 8. | S. S. Shaikh, S. C. Pathan, P. V. Mane- Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Development of Smart Fusion Technology Based Customizable System-on-Chip For Monitoring of Polyhouse Parameters | International Journal of Scientific and Engineering Research, France, (ISSN 2229-5518) | 5 (9) 2014 | 100-108 |
| 9. | S. C. Pathan, S. S. Shaikh, P. V. Mane-Deshmikh, S. K. Tilekar , S | Deployment of SmartFusion Based SoC to Develop GSM Based Remote Monitoring System | International Journal of Scientific and Engineering Research, France, (ISSN 2229-5518) | 5 (11) 2014 | 589-598 |

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|----------------|--|---|---|------------------|---------|
| | V Chavan and B. P. Ladgaonkar | | | | |
| 2015-16 | | | | | |
| 10. | S. V. Chavan, S. K. Tilekar , B. P. Ladgaonkar | Design and Deployment of ARM Microcontroller Based Wireless Sensor Network to Monitor Industrial Parameters | International Journal of Advanced Research in Computer Science and Software Engineering, (ISSN: 2277-128X) | 5 (12) 2015 | 213-228 |
| 11. | S. N. Patil, A. M. Pawar, S. K. Tilekar and B. P. Ladgaonkar | Investigation of magnesium substituted nano particle zinc ferrites for relative humidity sensors | Sensors and Actuators A: Physical, ELSEVIER, (ISSN: 0924-4247) | 244 2016 | 35-43 |
| 2016-17 | | | | | |
| 12. | P. V. Mane Deshmukh, S. C. Pathan, S. V. Chanvan, S. K. Tilekar , B. P. Ladgaonkar | Wireless Sensor Network for Monitoring of Air Pollution Near Industrial Sector | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), (2277-128x) | 6 (6) 2016 | 638-645 |
| 13. | G. B. Bhagat, S. K. Tilekar and S. A. Pawar | Designing of an Embedded System to Control the Temperature of Polyhouse | International Journal of Electronics and Communication Engineering & Technology (IJECET), (ISSN: 0976-6472) | 7 (6) 2016 | 39-47 |
| 14. | S. K. Tilekar , S. C. Pathan, P. V. Mane- Deshmukh, S. V. Chavan and B. P. Ladgaonkar | Synthesis of AMS Based System-on-Chip for Measurement of Physicochemical Parameters of Water | Int. Journal of Engineering and Advanced Technology (IJEAT), (ISSN: 2249-8958) | 6 ICDS IP17 2017 | 147-152 |
| 15. | P. V. Mane- Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Designing of Wireless Sensor Network for Real-Time Patrolling of the border | Int. Journal of Engineering and Advanced Technology (IJEAT) (ISSN: 2249-8958) | 6 ICDS IP17 2017 | 153-157 |
| 2017-18 | | | | | |
| 16. | S. V. Chavan, S. K. Tilekar , P. V. Mane-Deshmukh and B. P. Ladgaonkar | ARM Microcontroller Based Wireless Sensor Network to Monitor Environmental Parameters of Textile Industry | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), (ISSN: 2277-128x) | 7 (5) 2017 | 438-449 |
| 17. | S. K. Tilekar , S. V. Chavan, B. P. Ladgaonkar and P. V. Mane- Deshmukh | Paradigm of AMS based SoC for Measurement of Physico-Chemical Parameters of the Water | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), (ISSN: 2277-128x) | 7 (5) 2017 | 497-500 |
| 18. | S. K. Tilekar , P. V. Mane- Deshmukh, B. P. Ladgaonkar and S. V. Chavan | Synthesis of Reconfigurable Embedded System to Measure Temperature Compensated Dissolved Oxygen Concentration | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), (ISSN: 2277-128x) | 7 (5) 2017 | 592-597 |
| 19. | P. V. Mane Deshmukh*, B. P. Ladgaonkar and S. K. Tilekar | Development of GUI for Wireless Sensor Network for Industrial Parameters | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), (ISSN: 2277-128x) | 7 (5) 2017 | 652-656 |
| 20. | S. K. Tilekar , S. V. Chavan, S. N. Patil, B. P. | Analog Mixed Signal based Linear Control of Electric Motor Deploying CapSense | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), | 7 (5) 2017 | 657-660 |

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|----------------|--|--|--|----------------|-----------|
| | Ladgaonkar and P. V. Mane-Deshmukh | Technology | (ISSN: 2277-128x) | | |
| 21. | P. V. Mane Deshmukh*, B. P. Ladgaonkar and S. K. Tilekar | Designing of Sun's Position Tracking System for Solar Panels | International Journal of Advanced Research in Computer Science and Software Engineering (ISSN: IJARCSSE), (2277-128x) | 7 (5) 2017 | 661-664 |
| 22. | S. V. Chavan*, B. P. Ladgaonkar and S. K. Tilekar | Wireless Sensor Network to Monitor Environmental Parameters of Spinning Unit of Cotton Industry | International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), (ISSN: 2394-4099 & 2395-1990) | 3 (3) 2017 | 515-520 |
| 23. | S. V. Chavan, B. P. Ladgaonkar and S. K. Tilekar | Design and Implementation of Sensor Network to Monitor Environmental Parameters of Blower Unit of Cotton Yarn Manufacturing Industry | International Journal for Research in Applied Science & Engineering Technology (IJRASET), (ISSN: 2321-9653) | 5 (VI) 2017 | 2891-2900 |
| 24. | D. M. Adat, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Smart Fusion Based cSoC for Wireless Sensor Network for Agricultural Applications | International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), (ISSN: 2394-4099 & 2395-1990) | 3 (5) 2017 | 161-168 |
| 25. | S. V. Chavan, B. P. Ladgaonkar and S. K. Tilekar | Implementation of Sensor Network to Monitor Environmental Parameters of Preparatory Unit of Textile Industry | International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), (ISSN: 2278-909X) | 6 (9) 2017 | 1008-1012 |
| 26. | S. V. Chavan, B. P. Ladgaonkar and S. K. Tilekar | Monitoring the Environmental Parameters of Ring Conner Unit of Cotton Industry Using Wireless Sensor Network (WSN) | International Journal of Electrical Electronics & Computer Science Engineering (IJECCSE) (E-ISSN : 2348-2273, P-ISSN : 2454-1222) | 4 (5) 2017 | 35-39 |
| 27. | G. B. Bhagat, P. V. Mane Deshmukh, S. K. Tilekar and S. A. Pawar | Development of AVR Based Embedded System to Control Light Intensity of the Polyhouse | International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET) Print ISSN: 2395-1990, Online ISSN : 2394-4099 | 3 (8) 2017 | 1391-1396 |
| 28. | S. V. Chavan, B. P. Ladgaonkar & S. K. Tilekar | An Overview of Sensor Nodes for Wireless Sensor Network Applications: A Review | Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org, (ISSN-2349-5162) | 5 (1) 2018 | 175-180 |
| 29. | S. V. Chavan, B. P. Ladgaonkar, S. K. Tilekar | Wireless Sensor Network Technology and Networking Algorithms for Wireless Sensor Network Applications: A Survey | International Journal for Research in Applied Science & Engineering Technology (IJRASET) (ISSN: 2321-9653) | 6 I 2018 | 662-670 |
| 30. | S.N. Patil, A. M. Pawar, S. K. Tilekar and B. P. Ladgaonkar | Development of an Embedded System for Measurement of Temperature Based on Polycrystalline Ferrite Material | International Journal of Electrical Electronics & Computer Science Engineering (IJECCSE) (E-ISSN : 2348-2273, P-ISSN : 2454-1222) | 5 (1) 2018 | 152-156 |
| 2018-19 | | | | | |
| 31. | S. C. Pathan, S. S. Shaikh, P. V. Mane-Deshmukh, D. M. Adat, S. K. Tilekar , B. P. Ladgaonkar | Development of Smart Fusion Technology Based System for Light Intensity Measurement for Polyhouse | International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), (ISSN: 2394-4099 & 2395-1990) | 4 (1) 2018 | 1327-1331 |
| 32. | D. M. Adat, P. V. | Mixed Signal Based VLSI | International Journal of Advanced | 7 (4) | 307- |

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|------------------|---|--|---|--------------|-----------|
| | Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | technology for Wireless Sensor Network | Research in Electronics and Communication Engineering (IJARECE), (ISSN: 2278-909X) | 2018 | 312 |
| 33. | S. K. Tilekar* , S. V. Chavan, B. P. Ladgaonkar and P. V. Mane Deshmukh | An Embedded System for Comparative Performance Analysis of Monolithic Temperature Sensors | i-manager's Journal on Electronics Engineering (JELE), (ISSN Print: 2229-7286; Online: 2249-0760) | 8 (2) 2018 | 12-19 |
| 34. | P. V. Mane-Deshmukh, D. M. Adat, B. P. Ladgaonkar and S. K. Tilekar , | Monitoring and Control of Gas Leakages of Industrial Sector using PIC 18F4550, ZigBee and Wireless Sensor Actuator Network | i-manager's Journal on Electronics Engineering, (ISSN Print: 2229-7286; Online: 2249-0760) | 8 (3) 2018 | 5-13 |
| 35. | P. V. Mane-Deshmukh, D. M. Adat, B. P. Ladgaonkar and S. K. Tilekar | Designing of an Embedded system for Wireless Sensor Network for Hazardous Gas leakage control for industrial Application | i-manager's Journal on Embedded Systems, (ISSN Print: 2278-7895, ISSN Online: 2320-2335) | 6 (2) 2018 | 1-9 |
| 36. | G. B. Bhagat, R. A. Nanaware, P. V. Mane Deshmukh, S. K. Tilekar , S. A. Pawar | Development of AVR Based Embedded System to Precise Monitor and Control the Humidity of Polyhouse | International Journal of Engineering, Science and Mathematics, ISSN: 2320-0294 | 7 (10) 2018 | 99-106 |
| 2019-20 | | | | | |
| 37. | D. M. Adat, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | An Electronics Solution To Facilitate Smart City For Waste Management | i-manager's Journal on Electronics Engineering, (ISSN Print: 2229-7286 ISSN Online: 2249-0760) | 9 (3) 2019 | 38-44 |
| 38. | S. C. Pathan, S. S. Shaikh, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Designing of Mixed Signal Based System-On-Chip for ECG Monitoring | Journal of Applied Science and Computations, (ISSN: 1076-5131), | VI (II) 2019 | 2351-2357 |
| 39. | P. V. Mane-Deshmukh, B. P. Ladgaonkar and S. K. Tilekar | Investigation Of WSN Parameters For Realization Of Quality Of Service | i-manager's Journal on Wireless Communication Networks, (ISSN Print: 2319-4839, ISSN Online: 2320-2351) | 8 (2) 2019 | 8-19 |
| 40. | P. V. Mane-Deshmukh, A. B. More, B. P. Ladgaonkar and S. K. Tilekar | Designing Of Remote Terminal Unit (Rtu) For Measurement Of Ph In Water Treatment Plant | i-manager's Journal on Electronics Engineering, (ISSN Print: 2229-7286 ISSN Online: 2249-0760) | 10 (1) 2019 | 16-21 |
| 41. | Wagh P. S., More A. B., Pote S. A., Pise T. K., Pathan S. C., Tilekar S. K. , and Mane Deshmukh, P. V. | Microcontroller based an Embedded System for Railway Gate Monitoring and Controlling | i-manager's Journal on Embedded Systems, (ISSN Print: 2278-7895, ISSN Online: 2320-2335) | 8 (1) 2019 | 31-40 |
| 2020-2021 | | | | | |

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|------------------|---|---|--|---------------|-----------|
| 42. | S.N. Patil, J.D. Deshpande, S.K. Tilekar , B.P. Ladgaonkar, A.M. Pawar | Synthesis and implementation of polycrystalline ferrite material for smart sensor module | Materials Today: Proceedings, Elsevier https://doi.org/10.1016/j.matpr.2020.07.139 https://www.scopus.com/record/display.uri?eid=2-s2.0-85105442669&origin=inward&txGid=6a0eca954f7cd7be17e791a441c88649 | 43 4 2021 | 2751-2756 |
| 43. | G. B. Bhagat, A. R. Patil, P. V. Mane-Deshmukh, S. K. Tilekar and S. A. Pawar | Development of Microcontroller Based Bluetooth Controlled System for High Power Electric Appliances | International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056, p-ISSN: 2395-0072 | 7 (7) 2020 | 5886-5891 |
| 44. | P. V. Mane Deshmukh, D. M. Adat, P. S. Wagh, B. P. Ladgaonkar & S. K. Tilekar | Design And Development Of Smart Displacement Measurement System | i-manager's Journal on Embedded Systems, (ISSN Print: 2278-7895, ISSN Online: 2320-2335) | 9 1 2020 | 18-26 |
| 45. | Shweta A. Pote, Pranali S. Wagh, Tejaswi K. Pise & S. K. Tilekar | Development of Arm Microcontroller Based Controlling System for Process Industry Parameter | i-manager's Journal on Instrumentation and Control Engineering, (ISSN Print: 2321-113X ISSN Online: 2321-1148) DOI : https://doi.org/10.26634/jic.8.2.18259 | 8(2) 2020 | 16-23 |
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| 49. | S. C. Pathan, S. S. Shaikh, S. K. Tilekar , P. V. Mane Deshmukh, P. S. Wagh and B. P. Ladgaonkar | Design and Development of Mixed Signal Based SoC using SmartFusion Device for Wireless Sensor Network for Precision Agricultural (PA) Application | Int. Research Journal of Engg. And Technology (IRJET), (e-ISSN: 2395-0056, p-ISSN: 2395-0072) | 8 8 2021 | 235-243 |
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5.2 Research Papers Published in Proceedings of the International Event (Conference, Seminars, Symposia, etc.) (03).

| Sr. No. | Name of the Authors | Title of Research paper | Name of Proceeding | Year | P. No |
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| 1. | B.P. Ladgaonkar, S. K. Tilekar And A. S. Vaingankar | Development of PC based system for permeability measurement | International Conference on Instrumentation (INCON-04) ISOI and Department of Instrumentation and control, COEP, Pune | 2004 | 622- 625 |
| 2. | S. K. Tilekar , Abhay Tambe and B. P. Ladgaonkar | Mixed Signal Technology Based PSoC Design for Electrical Conductivity Measurement | International Conference on Advanced and Applied Material Science (ICAAMS-2014) Department of Physics and Electronics, Gopal Krishna Gokhale College, Kolhapur with Knowledge Partner Department of Physics, Shivaji University, Kolhapur MS, ISBN 978-81-928717-1-4 | 2014 | 109- 113 |
| 3. | S. N. Patil, A. M. Pawar, S. K. Tilekar and B. P. Ladgaonkar | Synthesis and Characterization of Nanocrystalline MnZn Ferrite for Humidity Sensor | | | 104- 108 |
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| Sr. No. | Name of the Authors | Title of Research paper | Name of Proceeding | Year | P. No |
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| 1. | B.P. Ladgaonkar R.H. Kumbhar S.S. Chavan S.K. Tilekar | Microprocessor Based Displacement Measuring System | National Seminar on Electro and Magneto Ceramics Devices and System Department of Physics and Electronics, Shankarrao Mohite Mahavidyalaya, Akluj.(MS) NSEMCDs-02 | 2002 | 78-79 |
| 2. | R.H. Kumbhar | Development of System to | | | 80-81 |

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| 3. | B.P. Ladgaonkar R.H. Kumbhar S.K. Tilekar A.S. Vaingankar | Development of PC- Based X-Transformer Plotter | | | 94-96 |
| 4. | S.K. Tilekar B.P. Ladgaonkar R.H. Kumbhar S.N. Pise | Street and Traffic Light Controller | | | 97-99 |
| 5. | B.P. Ladgaonkar R.H. Kumbhar S.K. Tilekar | Optical Fiber Based Signal Communication | National Conference on Microwave and Optoelectronics (NCMO-04), Department of Physics, Dr. B A M University, Aurangabad, MS. ISBN: 81-88342-45-9 | 2004 | 540-543 |
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| 8. | A.M. Pawar, S.K. Tilekar, S.N. Patil and B.P. Ladgaonkar | Development of Wireless Sensor Node for Wireless Sensor Network for High-tech Agriculture | | | 137-141 |
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| 10. | S. N. Patil, S. K. Tilekar & B.P. Ladgaonkar | Design wireless Humidity sensor | | | 159-164 |
| 11. | R.B. Mhoparkar, S. K. Tilekar & B.P. Ladgaonkar | Online Monitoring Of pH, Conductivity And Temperature Of Boiler Water Of Sugarcane Industries | | | 171-177 |
| 12. | A. M. Kadam, S. V. Nikam, S. K. Tilekar and B. P. Ladgaonkar | Designing of ARM Microcontroller Based Embedded System to measure Soil Parameters of Polyhouse | | | 178-182 |
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| 17. | P. V. Mane Deshmukh, A. G. Pise, S. K. Tilekar and B.P. Ladgaonkar | An Embedded System Design for Speed locking of Smart Automobiles | National Conference on Advances in Electronics and its Interdisciplinary Applications (NCAEIA-2014) organized by Department of Electronics, Fergusson College, Pune (MS) in association with Society for Promotion of Excellence in Electronics Discipline (SPEED) Journal of Research in Electronics SPEED (2015) ISBN 2349-8226 | 2014 | 553-56 |
| 18. | S. C. Pathan, S. S. Shaikh, P. V. Manedeshmukh, S. S. Bhosale, S. S. Magar, S. K. Tilekar and B. P. Ladgaonkar | Deployment of Smart Fusion Technology to design SoC for paper manufacturing industry | | | 129-132 |
| 19. | S. K. Tilekar , A. N. Pawar, S. P. Patil, S. C. Pathan and B. P. Ladgaonkar | Synthesis of Mixed Signal Based SoC For Measurement of Concentration of Dissolved Oxygen | | | 133-136 |
| 20. | S. N. Patil, A. M. Pawar, S. K. Tilekar and B. P. Ladgaonkar | Implementation of Nanocrystalline NiZn Ferrite for Smart Humidity Sensor Module | | | 315-318 |
| 21. | S. K. Tilekar , M. B. Bagale, C. B. Pise, P. V. Mane-Deshmukh, S. C. Pathan, B. P. Ladgaonkar | Implementation of CapSense Technology for Linear Control Electric Motor | National Conference on Modern Approach for Green Electronics and Computing (MAGEC-2014) organized by Department of Electronics, Yashwantrao Chavan Institute of Science, Satara (MS), sponsored by UGC, WRO, Pune | 2014 | 35-37 |
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| 23. | G. B. Bhagat, S. V. Gaikwad, S. K. Tilekar and S. A. Pawar | AVR Microcontroller Based Temperature Control System For Greenhouse | | | 90-93 |
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| 28. | G. B. Bhagat*, S. K. Tilekar and S. A. Pawar | Designing Of An Embedded System For Automatic Control Of Greenhouse Temperature In Day And Night Mode | | | 129-132 |
| 29. | S. K. Tilekar , M. B. Bagale*, C. B. Pise*, S. C. Pathan, S. N. Patil and B. P. Ladgaonkar | Synthesis Of Ams Based Wireless Sensor Node For Measurement Of Temperature Compensated Ac Electrical Conductivity | | | 141-145 |
| 30. | A. M. Pawar, J. K. Mulani*, V. R. Patil, S. N. Patil, S. K. Tilekar and B. P. Ladgaonkar | Design of ARM Based Wireless Sensor Node For Warehouse Monitoring | | | 161-166 |
| 31. | S. S. Shaikh*, S. C. Pathan, G. U. Katkar, P. V. Mane-deshmukh, S. K. Tilekar , S. V. Chavan and B. P. Ladgaonkar | Designing of Mixed signal based SoC for Wireless Communication | | | 191-196 |
| 32. | | | | | |

5.4 Research Papers Presented at the International Event (Conference, Seminars, Symposia, etc.) (12).

| Sr. No | Name of the Authors | Title of Research paper | Name of Event | Year/ Mode |
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| 1. | B.P. Ladgaonkar, S.K. Tilekar* A.S. Vaingankar | Development of PC Based System for Permeability measurement | International Conference on Instrumentation (INCON-04) Instrument Society of India & Dept. of Instrumentation and Control, PIET, Pune. (Formerly Govt. College of Engg. Pune) M. S., India | 2004 PP |
| 2. | B. P. Ladgaonkar*, S. N. Patil and S. K. Tilekar | Development Of Ni-Zn Ferrite Based Smart Humidity Sensor Module By Using Mixed Signal Programmable System-On-Chip | International Conference on Intelligent System and Applied Material (GSAM 2013), organized at Taiyuan, China | 2013 OP |
| 3. | S. K. Tilekar* , Abhay Tambe and B. P. Ladgaonkar | Mixed Signal Technology Based PSoC Design For Electrical Conductivity Measurement | International Conference on Advanced and Applied Material Science (ICAAMS-2014), Gopal Krishna Gokhale College, Kolhapur with Knowledge Partner Department of Physics, Shivaji University, Kolhapur | 2014 PP |
| 4. | S. N. Patil*, | Synthesis and Characterization | | 2014 |

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| | A. M. Pawar, S. K. Tilekar* and B. P. Ladgaonkar | of Nanocrystalline MnZn Ferrite for Humidity Sensor | | PP |
| 5. | S. K. Tilekar* , S. C. Pathan, P. V. Mane-Deshmukh, S. N. Patil, S. V. Chavan and B. P. Ladgaonkar | A New Paradigm of AMS-SoC Design for Monitoring of Physico-chemical Parameters of the Water | International Conference on Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) Sponsored by Department of Science and Technology (DST) New Delhi and Board of Research in Nuclear Science (BRNS), Mumbai organized by Department of Physics, Chemistry and Electronics, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, Dist. Solapur, MS, India | 2015 PP-137 |
| 6. | S. N. Patil*, A. M. Pawar, S. K. Tilekar* and B. P. Ladgaonkar | An Implementation of Polycrystalline Ferrite to Design an Embedded System for Carbon Dioxide Gas Monitoring | | 2015 PP-18 |
| 7. | S. V. Chavan, S. K. Tilekar*, B. P. Ladgaonkar | Deployment of CC2520 and ARM-LM4F120H5QR to Design Node for Wireless Sensor Network | | PP-181 |
| 8. | G. B. Bhagat*, S. K. Tilekar* and S. A. Pawar | AVR Microcontroller Based Automatic Plant Irrigation System For Greenhouse | | 2015 PP-180 |
| 9. | S. K. Tilekar* , S. C. Pathan, P. V. Mane-Deshmukh, S. V. Chavan and B. P. Ladgaonkar | Synthesis of AMS Based System-on-Chip for Measurement of Physicochemical Parameters of Water | 1 st International Conference on Digital Signal and Image Processing (ICoDSIP-2017) Organized by Department of Electronics & Telecommunication Engineering, Maharashtra Institute of Technology, Aurangabad, MS, India | 2017 OP-65 |
| 10. | P. V. Mane-Deshmukh, S. K. Tilekar* & B. P. Ladgaonkar | Designing of Wireless Sensor Network for Real-Time Patrolling of the border | | 2017 OP-66 |
| 11. | Patil S.N., Deshpande J.D., Tilekar S.K., Ladgaonkar B.P., Pawar A.M. | Synthesis and implementation of polycrystalline ferrite material for smart sensor module | International Conference on Multifunctional and Hybrid Materials for Energy and Environment, MHMEE 2020; Satara; India; 29 January 2020 through 31 January 2020; Code 168490 | 2020 |
| 12. | S. A. Tingare, S. K. Tilekar, S. N. Patil | Development of Smart Water Quality Monitoring System | International Conference on Emerging Trends and Challenges in Electronics and Computing for Sustainable Development, ETCESD-2024, YC Institute of Sciences, Satara, India 22-23/04/2024. PET 69 | 2024 OP-99 |

5.5 Research Papers Presented at the National Event (Conference, Seminars, Symposia, etc.) (87).

| Sr. No. | Name of the Authors | Title of Research paper | Name of Event | Year | Mode /P. No |
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| 2002-2003 | | | | | |
| 1. | B.P. Ladgaonkar R.H. Kumbhar S.S. Chavan S.K. Tilekar | Microprocessor Based Displacement Measuring System | National Seminar on Electro and Magneto Ceramics Devices and System Department of Physics and Electronics, Shankarrao Mohite Mahavidyalaya, Akulj.(MS) NSEMCDs-02 | 2002 | PP 78-79 |
| 2. | R.H. Kumbhar B.P. Ladgaonkar S.K. Tilekar | Development of System to Measure Capacitance and Frequency | | | PP 80-81 |

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| 3. | B.P. Ladgaonkar R.H. Kumbhar S.K. Tilekar A.S. Vaingankar | Development of PC- Based X-Transformer Plotter | | | PP 94-96 |
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| 7. | S.K. Tilekar, S.N. Buwa, B.P. Ladgaonkar A.S. Vaingankar | Development of an embedded system to measure initial permeability of magnetic materials | National Seminar on Recent Advances in Sensors and Instrumentations (NSRASI-07), Dept. of Electronics, Shankarrao Mohite Mahavidyalaya, Akluj MS | 2007 | PP CD |
| 8. | S.N. Buwa, S.K. Tilekar B.P. Ladgaonkar | Design and development of microcontroller based embedded system for measurement of saturation magnetization | | | PP CD |
| 9. | A.A. Shete, P.A. Pote, S.K. Tilekar B.P. Ladgaonkar | An embedded system development for interfacing of smart LCD | | | PP CD |
| 10. | A.M. Kadam, R.A. Aherkar, R.P. Kumbhar, P.M. Shaikh, S.K. Tilekar B.P. Ladgaonkar | Development of an embedded system to monitor temperature: an application to susceptibility measurement setup | | | PP CD |
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| 12. | R. B.Mhoparkar S. K. Tilekar B.P. Ladgaonkar | Online monitoring of ph, conductivity and temperature of boiler water of sugarcane industries | | | OP CD |
| 13. | S.N.Patil S.K.Tilekar A.M.Kadam B.P.Ladgaonkar | Data acquisition system for susceptibility measurement | | | PP CD |
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| 18. | S. V. Nikam P. A. Pote S.K. Tilekar B.P. Ladgaonkar | An Embedded System for On-Line Measurement of Ph of Boiler Water | | | PP 114 |
| 19. | S. N. Mule A.B. Bansode S.K. Tilekar B.P. Ladgaonkar | Design of An ALU Using VLSI Technology | | | PP 116 |
| 20. | A. M. Pawar S.N.Patil S.K.Tilekar B.P.Ladgaonkar | Development of Zigbee Technology Based Wireless Sensor Network System for Greenhouse Application | | | PP 116 |
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| 22. | S. N. Patil, S. K. Tilekar, B. P. Ladgaonkar | Study of Humidity Sensitive Properties of the ZnNiFe ₂ O ₄ | | | PP 119- 123 |
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| 26. | S. N. Patil, | Design wireless Humidity | | | PP |

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| | S. K. Tilekar & B.P. Ladgaonkar | sensor | | | 159-164 |
| 27. | P. D. Mane, P. R Kalokhe. S. K Tilekar & B. P Ladgaonkar | Development of an embedded system for measurement of electrical conductivity | | | PP 35 |
| 28. | R.B. Mhoparkar, S. K. Tilekar & B.P. Ladgaonkar | Online Monitoring Of pH, Conductivity And Temperature Of Boiler Water Of Sugarcane Industries | | | PP 171-177 |
| 29. | A. M. Kadam, S. V. Nikam, S. K. Tilekar and B. P. Ladgaonkar | Designing of ARM Microcontroller Based Embedded System to measure Soil Parameters of Polyhouse | | | PP 178-182 |
| 30. | S. C. Pathan, S. S. Shaikh, S. K. Tilekar and B.P. Ladgaonkar | Designing Of Programmable System-On-Chip For 8051 Based Core | | | OP 183-188 |
| 31. | S. K. Tilekar and B. P. Ladgaonkar | Design And Implementation Of PSoC Based $\Delta\Sigma$ ADC For Mixed Signal Embedded Design | | | PP 189-193 |
| 32. | S.K.Tilekar, S.S.Shaikh, J.U.Pawar, B.B.Upadhye & G.B.Hake | Development of Subsystem to Enhance On-Chip Resources of 8051 core | | | PP 40 |
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| 34. | P.V. Mane- Deshmukh, S. K. Tilekar and B.P. Ladgaonkar | Designing of PIC Microcontroller Based Node For Wireless Sensor Network to Monitor Chemical Leaks | | | PP 102 |
| 35. | S. K. Tilekar, M. Karthikeyan, A. S. Powar & B. P. Ladgaonkar | Mixed Signal VLSI Technology Based SoC Design for Precision Measurement of pH | | | OP 96 |
| 36. | S. N. Patil, A.S. Powar, S. K. Tilekar and B. P. Ladgaonkar | Development of Polycrystalline Ferrite Based Smart Humidity Sensor Module by Using Mixed Signal Programmable System on Chip | | | OP 109 |
| 37. | A. S. Powar, S. K. Tilekar, and B.P. Ladgaonkar | Mixed Signal VLSI Technology to Design Programmable System on Chip to Measure | National Conference on Recent Initiative towards Green Electronics (NCRIGE-2013) organized by Post Graduate Department of Electronics, | 2013 | PP 410-412 |

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| | | Environmental Parameters of Polyhouse | Brijlal Biyani College, Amarawati | | |
| 38. | P.V. Mane-Deshmukh, S. K. Tilekar and B.P. Ladgaonkar | Designing of PIC Microcontroller Based Node For Wireless Sensor Network to Monitor Chemical Leaks | | | PP 77 |
| 39. | S. K. Tilekar, A. S. Powar & B.P. Ladgaonkar | Mixed Signal VLSI Technology Based SoC Design For Temperature Compensated pH Measurement | | | OP 77 |
| 40. | D.S. Karvekar, N.S. Patil and S.K. Tilekar | Interfacing of Graphical LCD to Advanced Microcontroller | | | PP 73 |
| 2013-2014 | | | | | |
| 41. | S. K. Tilekar*, and B. P. Ladgaonkar | Synthesis of Mixed Signal VLSI Based SoC For Measurement of AC Electrical Conductivity | National Conference on Latest Advances, Trends in Electronic Science and Technology (LATEST-2014) organized by Department of Electronics Shivaji University, Kolhapur jointly with Department of Electronics Engineering, KIT's College of Engineering, Kolhapur MS, | 2014 | PP 74 |
| 42. | G. B. Bhagat*, S. K. Tilekar and S.A. Pawar | Design of an Electronic System to Control the Temperature of Various Plants in Greenhouse | | | OP 19 |
| 2014-2015 | | | | | |
| 43. | S. S. Pise*, S. N. Patil, S. K. Tilekar* and B. P. Ladgaonkar | Development of P89V51RD2 based an Embedded System for 3D LED Matrix Interfacing | National Conference on Advances in Electronics and its Interdisciplinary Applications (NCAEIA-2014) organized by Department of Electronics, Fergusson College, Pune (MS) in association with Society for Promotion of Excellence in Electronics Discipline (SPEED), | 2014 | PP |
| 44. | G. B. Bhagat, S. V. Gaikwad, S. K. Tilekar and S. A. Pawar | AVR Microcontroller Based Temperature Control System For Greenhouse | National Conference on Modern Approach for Green Electronics and Computing (MAGEC-2014) organized by Department of Electronics, Yashwantrao Chavan Institute of Science, Satara (MS) , sponsored by UGC, WRO, Pune, | 2014 | PP 14 |
| 45. | S. S. Pise*, S. N. Patil, S. K. Tilekar* and B. P. Ladgaonkar | Development of P89V51RD2 based an Embedded System for 3D LED Matrix Interfacing | | | PP 26 |
| 46. | S. K. Tilekar, M. B. Bagale, C. B. Pise and B. P. Ladgaonkar | Implementation of CapSense Technology for Linear Control Electric Motor | | | PP 51 |
| 47. | S. V. Chavan*, S.C. Pathan, S.S. Shaikh, S.K. Tilekar, P.V. Mane-Deshmukh and B. P. Ladgaonkar | Design of Wireless Sensor Node For Wireless Sensor Network Applications | National Conference on Advances in Wireless Sensor Network and Its Applications (NCAWSNA-2014), organized by Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akluj | 2014 | OP 18 |
| 48. | S. S. Pise*, P. N. Badhe, M. B. Pawar, C. B. Dhamal, S. N. Patil, S. K. Tilekar and B. P. | Development of AVR ATmega 16 based an Embedded System for LED Matrix Interfacing | | | OP 19 |

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|-----|--|--|---|------|----------|
| | Ladgaonkar | | | | |
| 49. | S. S. Shaikh*, S. C. Pathan, S. V. Chavan, P. V. Manedeshmukh, S. K. Tilekar and B. P. Ladgaonkar | Design and development of smart monitoring system for agricultural Parameters | | | OP 20 |
| 50. | S. C. Pathan*, S. S. Shaikh, Y. N. Adsul, J. P. Phadtare, S. K. Tilekar and B. P. Ladgaonkar | Development of Cost Effective ECG Monitoring System Using JAVA and Smart Fusion Technology | | | OP 26 |
| 51. | D. L. Hegade*, N. B. Hegade*, P. V. Mane Deshmukh, S. S. Shaikh, S. K. Tilekar and B. P. Ladgaonkar | Designing of Sensor Node Using Advanced Microcontroller for Gas Leak Detection | | | PP 32 |
| 52. | S. V. Chavan*, S. S. Shaikh S. C. Pathan, S. K. Tilekar , P. V. Mane-Deshmukh and B. P. Ladgaonkar | Design of GUI For Base Station of Greenhouse Monitoring Wireless Sensor Network | | | PP 36 |
| 53. | D. R. Divate*, P. V. Dalvi*, A. M. Pawar, G. G. Mokashi, S. K. Tilekar and B. P. Ladgaonkar | Development Of Zigbee Technology Based System For Hotel Management | | | PP 38 |
| 54. | A. S. Badhe*, A. R. Magar*, S. K. Tilekar and B. P. Ladgaonkar | Development of Microcontroller Based an Embedded System for Robotic Applications | | | PP 39 |
| 55. | S. K. Tilekar , P. V. Shinde, T. R. Yadav*, S. V. Chavan and B. P. Ladgaonkar | Synthesis Of Mixed Signal Technology Based SoC For Temperature Monitoring Mote | | | PP 40 |
| 56. | S. K. Tilekar , S. S. Jadhav*, A. B. Dalvi*, S. N. Patil, P. V. Mane Deshmukh and B. P. Ladgaonkar | Non-Invasive Cardiac Pulse Monitoring Using PIC Microcontroller | | | PP 41 |
| 57. | G. R. Arde*, M. M. Mulik*, S. N. Patil, S. K. Tilekar , P. V. Mane-Deshmukh, and B. P. Ladgaonkar | Development of an Embedded System for Smart Home | | | PP 42 |
| 58. | V. D. Badave, D. D. Dige*, S. S. Shaikh, S. K. Tilekar and B. P. Ladgaonkar | Customizable System-on-Chip to Monitor Environmental of CO ₂ Gas | UGC Sponsored National Level Conference on Recent Advances in Embedded Technology (NCRAET-2015) organized by Department of Electronics, Ramkrishna Paramhansa | 2015 | OP |
| 59. | S. K. Tilekar , M. B. | Synthesis of MAS Based | | | OP |

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|-----|---|--|--|-------------|-------|
| | Bagale, C. B. Pise*, S.C. Pathan, S. N. Patil and B. P. Ladgaonkar, | Wireless Sensor Node For Measurement of Temperature Compensated AC Electrical Conductivity | Mahavidyalaya, Osmanabad | | |
| 60. | S. V. Chavan*, S. S. Shaikh, S. C. Pathan, S. K. Tilekar , P. V. Mane-Deshmukh and B. P. Ladgaonkar | Design of Site Specific Data Monitoring System for Wireless Sensor Network | | | OP |
| 61. | G. R. Arde*, M. M. Mulik*, S. N. Patil, S. K. Tilekar , P. V. Mane-Deshmukh and B. P. Ladgaonkar | Development of an Embedded System for Smart Home | | | PP |
| 62. | S. N. Patil*, A. M. Pawar, S. K. Tilekar and B. P. Ladgaonkar | Synthesis and Development of Nanosized Ferrite sensor to Design an Embedded System for Carbon Dioxide Gas Monitoring | | | PP |
| 63. | D. R. Divate*, A. M. Pawar, G. G. Mokashi, S. K. Tilekar and B. P. Ladgaonkar | Wireless Sensor Network for Hotel Management | | | PP |
| 64. | S. S. Pise, P. N. Badhe, M. B. Pawar, S. N. Patil, S. K. Tilekar and B. P. Ladgaonkar | Development of AVR ATmega 16 based an Embedded System for LED Matrix Interfacing | | | PP |
| 65. | S. K. Tilekar *, S. N. Patil, S. C. Pathan, P. V. Mane-Deshmukh, G. G. Mokashi and B. P. Ladgaonkar | Mixed Signal Based System-on-Chip Design for Monitoring of Physicochemical Parameters of the Water | National Conference on Emerging Trends in Electronics and Computer Science (ETECS-2015) Sponsored by UGC-SAP, DST-PURSE, IEEE India SSCS & CASS Chapter and Jointly organized by Department of Electronics and Department of Computer Science, Shivaji University, Kolhapur | 2015 | OP 19 |
| 66. | S. K. Tilekar , T. R. Yadav, P. V. Shinde*, A. M. Pawar, S. V. Chavan and B. P. Ladgaonkar | Development of Analog Mixed Signal Based SoC for Physical Parameter Monitoring | | | OP 20 |
| 67. | P. V. Mane-Deshmukh, D. L. Hegade*, N. B. Hegade, S. C. Pathan, S. V. Chavan, S. K. Tilekar and B. P. Ladgaonkar | Designing of Labview based GUI for realization of Wireless Sensor Network to Monitor Industrial Gas Leakages | | | OP 73 |
| 68. | A. M. Pawar*, S. N. Patil, S. K. Tilekar and B. P. Ladgaonkar | ARM LPC 2148 Based Wireless Sensor Network for Site Specific Data Management for Agriculture Application | | | OP 05 |

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|-----------|--|---|--|------|-------|
| 69. | S. S. Pise, V. Y. Inamdar, A. M. Pawar, S. N. Patil, S. K. Tilekar and B. P. Ladgaonkar | Development of AVR ATmega 16 based an Embedded System for LED Matrix Interfacing | | | OP 22 |
| 2016-2017 | | | | | |
| 70. | G. B. Bhagat*, S. K. Tilekar and S.A. Pawar | Development of AVR Microcontroller Based Light Control System for Greenhouse | National Conference on Innovative Trends in Electronics and Allied Technology (ITEAT-2017) Sponsored by UGC-CPE, New Delhi and Technically Sponsored by SPEED Pune Organized by Department of Electronics and Computer Science, YC Institute of Science, Satara | 2017 | OP 06 |
| 71. | P. V. Mane-Deshmukh*, S. K. Tilekar and B. P. Ladgaonkar | Wireless Sensor Network for Monitoring of Industrial Environmental Pollution | | | OP 07 |
| 72. | D.S. Mulik*, R. D. Ghanwat, D. M. Adat, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | An Electronic Solution to Facilitate Watse Management for Smart City | | | OP 13 |
| 73. | A. N. Sathe*, S. S. Shinde, K. V. Adat, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Development of AVR ATmega16 Based Pulse Oxymeter for Measurement of SpO ₂ | | | PP 27 |
| 74. | S. A. Yadav*, K. V. Adat, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Development of Embedded System to Monitor Agriculture Appliances | | | PP 40 |
| 75. | S. Korake*, S. D. Mane, P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Development of Fire Fighting Robot by Deployment of an Embedded Technology | | | PP 43 |
| 76. | P. V. Mane-Deshmukh*, A. B. More*, A. D. Ghadage, S. K. Tilekar and B. P. Ladgaonkar | Real-Time Hazardous Gas Pipeline Monitoring and Controlling System | | | PP 45 |
| 77. | S. K. Tilekar *, A. B. Waghmare*, S. D. Nagane, P. V. Mane-Deshmukh and B. P. Ladgaonkar | Synthesis of Programmable System-on-Chip Based Embedded System to Monitor Industrial Gas: Ammonia | | | PP 53 |
| 78. | S. K. Tilekar *, P. V. Mane-Deshmukh, T. K. Pise, M. M. Pandhare, M.R. Galande and B. P. Ladgaonkar | An Embedded System for Comparative Performance Analysis of Monolithic Temperature Sensors | | | PP 58 |
| 79. | S. A. Yadav*, K. V. Adat, P. V. Mane- | Development of Embedded system to Monitor | National Seminar on Mechatronics (NSM-2017) Sponsored by UGC- | 2017 | PP 14 |

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|-----|--|--|---|--|-------|
| | Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Agricultural Appliances | Under Innovative Programme PGDM Technically Sponsored by Society for Promotion of Excellence in Electronics Discipline (SPEED) and Vidharbha Advanced Development & Consumer Technology Research Organization (VADACTRO) organized by Brijalal Biyani Science College, Amarawati, MS | | |
| 80. | S. K. Tilekar , P. V. Mane-Deshmukh, K. V. Adat, G. G. Mokashi, D. M. Adat and B. P. Ladgaonkar | Development of An Embedded System for Comparative Performance Analysis of Monolithic Temperature Sensors | | | PP 20 |
| 81. | A.N. Sathe, S.S. Shinde, K.V. Adat, P.V. Mane - Deshmukh, S.K. Tilekar and B.P. Ladgaonkar | AVR ATmega16 based Pulse Oxymeter for measurement of SpO2 | | | PP 24 |
| 82. | S. V. Chavan*, S. K. Tilekar and B.P. Ladgaonkar | Design and Implementation of ARM Microcontroller Based Wireless Sensor Network to Monitor Humidity and Environmental Temperature of the Textile Industry | | | PP 36 |
| 83. | P. V. Mane-Deshmukh, S. K. Tilekar and B. P. Ladgaonkar | Wireless Sensor Network for Industrial Environmental Pollution Monitoring | | | PP 37 |
| 84. | S. K. Tilekar , S. D. Nagane, A. B. Waghmare, P. V. Mane Deshmukh, S. N. Patil and B. P. Ladgaonkar | Synthesis of Analog and Mixed Signal Based SoC to Interface Polycrystalline Ferrite Based Ammonia Gas Sensor | | | PP 41 |
| 85. | D. S. Mulik, R. D. Ghanwat, D. M. Adat, P. V. ManeDeshmukh, S. K. Tilekar and B. P. Ladgaonkar | Development of Wireless Sensor Network For Realization of Smart City | | | PP 44 |
| 86. | S. Korake*, S. D. Mane, P. V. ManeDeshmukh, S. K. Tilekar and B. P. Ladgaonkar | Design of Fire Fighting Robot using An Embedded Technology | | | PP 47 |
| 87. | P. V. Mane-Deshmukh, A. B. More, A. D. Ghadge, S. K. Tilekar and B. P. Ladgaonkar | WSN based Mechatronics system for Gas pipeline leakage Monitor and control | | | PP 51 |
| | 2017-2018 | | | | |
| 88. | | | | | |

5.6 Research Papers Presented at the State Event (Conference, Seminars, Symposia, etc.) (09).

| Sr. No. | Name of the Authors | Title of Research paper | Name of Event | Year | Mode /P. No |
|---------|--|---|---|------|-------------|
| | | 2002-2003 | | | |
| 1. | S. K. Tilekar* , A. S. Powar and B. P. Ladgaonkar | Mixed Signal VLSI Based Embedded System For Measurement of Physical Parameter Temperature | UGC Sponsored State level Seminar on Recent Developments in Embedded Technology Organized by Department of Electronics, K. B. P. Mahavidyalaya, Pandharpur MS | 2012 | OP 29 |
| 2. | G. B. Bhagat, S. K. Tilekar* and S. A. Pawar | Designing of Microcontroller Based Temperature Control System For Poly-house | | | OP 45 |
| 3. | P. V. Mane-Deshmukh*, S. K. Tilekar and B.P. Ladgaonkar | Designing of PIC Microcontroller Based Node For Wireless Sensor Network to Monitor Leakages of Alcohol | | | OP 46 |
| 4. | R. B. Mhoparkar*, S. K. Tilekar and B. P. Ladgaonkar | Electronic Instrument For Measurement of pH, Conductivity and Temperature of Boiler Water of Sugarcane Industries | | | OP 52 |
| 5. | A. V. Kamble*, S. A. Pawar, B. P. Ladgaonkar and S. K. Tilekar | Survey of Current Trends in Applications and Performance Evaluation of Wireless Sensor Network | UGC Sponsored State level Seminar on Recent Developments in Embedded Technology Organized by Department of Electronics, K. B. P. Mahavidyalaya, Pandharpur MS, OP (2012) 30 | 2012 | OP 30 |
| 6. | S. A. Yadav*, A. D. Mane*, R. S. More*, S. K. Tilekar and B. P. Ladgaonkar | An E-waste: Environment Concerns and Health Hazards | UGC Sponsored State Level One day Seminar on Environmental Protection: An Interdisciplinary Approach For Sustainable Development organized by Smt. Ratnaprabhadevi Mohite-Patil College of Home Science for Women, Akluj, MS | 2015 | PP |
| 7. | P. S. Wagh*, U. M. Tomake*, V. D. Shinde*, B. P. Ladgaonkar and S. K. Tilekar | A Systematic Management of E-waste to Minimize Its Impact on Environment | | | PP |
| 8. | R. S. Shinde*, D. K. Kudale*, V. D. Pise*, B. P. Ladgaonkar and S. K. Tilekar | Statistical Study of Resources of E-waste | | | PP |
| 9. | P. K. Lokhande*, S. L. Bhaskare*, A. H. Bankar*, S. K. Tilekar and B. P. Ladgaonkar | The Green Electronics to Conserve the Environment | | | PP |
| 10. | | | | | |

6.

7. Refresher Courses/ Orientation Programmes (04)

| Sr. No. | Course | Organized by | Place | Period | Duration Days |
|---------|-----------------------|---------------------------------------|----------|--------------------------|---------------|
| 1 | Orientation Programme | ASC, Goa University, Goa. | Goa | 19/01/2001 to 15/02/2001 | 28 |
| 2 | Refresher Course | ASC, Gulbarga University, Gulbarga. | Gulbarga | 01/03/2002 to 21/03/2002 | 21 |
| 3 | Refresher Course | WRIC, ASC, Mumbai University, Mumbai. | Mumbai | 26/12/2006 to 15/01/2007 | 21 |
| 4 | Refresher Course | ASC, Goa University, Goa. | Goa | 29/10/2007 to 26/11/2007 | 21 |

8. Workshops and Training Programmes (19)

| Sr. No. | Title | Organized by | Place | Period |
|---------|---|--|-----------|--------------------------|
| 2003-04 | | | | |
| 1 | Two days' Teachers Training Programme on Revised Syllabus at F.Y. B.Sc. Electronics | Department of Electronics, Shivaji University, Kolhapur. | Kolhapur | 22/08/2003 to 23/08/2003 |
| 2 | Discussion on draft Syllabus of B.Sc. II Electronics | Department of Electronics, Shivaji University, Kolhapur. And Department of Electronics, Science College, Satara. | Satara | 04/04/2004 |
| 2008-09 | | | | |
| 3 | State level workshop on embedded system development (SLWESD-08) | PG Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj | Akulj | 25/07/2008 to 27/07/2008 |
| 2009-10 | | | | |
| 4 | State level workshop on PLC programming and Applications (SLWPLC-2010) | Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj | Akulj | 19/02/2010 to 21/02/2010 |
| 2010-11 | | | | |
| 5 | State Level Workshop on ARM based Embedded System Development (ABESD-2010) | Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj | Akulj | 08/10/2010 to 10/10/2010 |
| 2012-13 | | | | |
| 6 | AISHE' Workshop One day | Solapur University, Solapur | Solapur | 20/10/2012 |
| 7 | One day Workshop on Revised Syllabus of B.Sc. III Electronics | Dept. of Electronics, DBF Dayanand College of Arts & Science, Solapur MS 413002 | Solapur | 02/12/2012 |
| 8 | AISHE' Workshop One day | Solapur University, Solapur | Solapur | 13/05/2013 |
| 2013-14 | | | | |
| 9 | Two Day Workshop on Configurable System Design | Department of Electronics & Computer Science, RTM Nagpur University, Nagpur | Nagpur | 18/10/2013 to 19/10/2013 |
| 10 | Industrial Training on Career in Embedded Industry | Texas Instruments at Cranes Varsity, Cranes Software International Ltd. | Bangalore | 06/12/2013 |
| 11 | Workshop on Management Information System (MIS) One | Solapur University, Solapur | Solapur | 27/01/2014 |

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|----|--|--|------------|--------------------------|
| | Day | | | |
| | 2014-15 | | | |
| 12 | Workshop on All India Survey on Higher Education (AISHE) /Management Information System (MIS) | Solapur University, Solapur | Solapur | 10/09/2014 |
| | 2015-16 | | | |
| 13 | Workshop on All India Survey on Higher Education (AISHE)/Management Information System (MIS) | Solapur University, Solapur | Solapur | 08/10/2015 |
| 14 | State Level Workshop on ARM Cortex M Based Embedded System Design (ARM-ESD-2015) | sponsored by ARM University, UK PG Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj, in Association with Eduvance, Mumbai and Reanu Microelectronics, Pvt. Ltd., Pune | Akulj | 28/11/2015 To 30/11/2015 |
| 15 | ARM University Program Course on Embedded Systems Using ARM mbed | Eduvance, Mumbai at PG Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj | Akulj | 28/11/2015 To 30/11/2015 |
| | 2016-17 | | | |
| 16 | Oxford Instruments Nanotechnology Workshop, "Bringing the Nanoworld Together 2016 (BTNT 2016)" | Oxford Instruments UK at Indian Institute of Science (IISc) Bangalore | Bangalore | 22/11/2016 to 23/11/2016 |
| 17 | One Day Workshop on "The Maharashtra Public Universities Act, 2016" | Solapur University Teacher's Association (SUTA), Solapur at KBP College, Pandharpur | Pandharpur | 12/02/2017 |
| | 2017-18 | | | |
| 18 | One-Day Workshop on NPTEL | IIT Madras & WIT, Solapur at WIT Solapur | Solapur | 21/04/2018 |
| | 2018-2019 | | | |
| 19 | Oxford Instruments Nanotechnology Workshop, "Bringing the Nanoworld Together 2018 (BTNT 2018)" | Oxford Instruments UK at Indian Institute of Technology (IIT) Mumbai | Mumbai | 28/11/2018 to 29/11/2018 |
| 20 | | | | |

9. Participation In Conferences/Seminars/Symposiums

8.1 International (07)

| Sr. No. | Title | Organized by | Place | Duration |
|---------|---|--|---------------|--|
| 1. | International Conference on Instrumentation (INCON-2004) | Instrument Society of India & Department of Instrumentation and Control, PIET, Pune (Formerly Govt. College of Engg. Pune) M. S. | Pune | 19/12/2004 to 21/12/2004 |
| 2. | 2013 2 nd International Conference on Intelligent System and Applied Materials (GSAM-2013) | Computer Science and Electronic Technology International Society, Taiyuan, China | Taiyuan China | 13/01/2013 To 15/01/2013 |
| 3. | International Conference on Advanced and Applied Material Science (ICAAMS-2014) | Gopal Krishna Gokhale College, Kolhapur with Knowledge Partner Department of Physics, Shivaji University, Kolhapur | Kolhapur | 15/01/2014 to 16/01/2014 |
| 4. | International Conference on | Sponsored by Department of Science | Pandharpur | 9 th - 11 th March |

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|----|--|--|------------|--------------------------|
| | Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) | and Technology (DST) New Delhi and Board of Research in Nuclear Science (BRNS), Mumbai organized by Department of Physics, Chemistry and Electronics, KBP Mahavidyalaya, Pandharpur, MS, India | | 2015 |
| 5. | 1 st International Conference on Digital Signal and Image Processing (ICoDSIP-2017) | Department of Electronics & Telecommunication Engineering, Maharashtra Institute of Technology, Aurangabad, MS, India | Aurangabad | 07/03/2017 to 08/03/2017 |
| 6. | International Webinar on Synergistic Efforts of Academicians and Industrialists in Combating COVID-19 using Luminescence | Department of Physics, St. Pious X Degree & PG College for Women, Hyderabad in association with Luminescence Society of India Sinsil International | Hyderabad | 02/06/2020 |
| 7. | Two Days International Webinar on Innovative Research Trends in Green Electronics and Allied Technology | Dept. of Electronics Science, TC College, Baramati | Baramati | 02/03/2021 to 03/03/2021 |
| 8. | | | | |

8.2 National (28)

| Sr. No. | Title | Organized by | Place | Duration |
|---------|---|---|---------------|--------------------------|
| 1. | National Seminar on Environment Conservation | Shriman B. Zadbuke Mahavidyalaya, Barshi (MS) | Barshi (MS) | 15/10/2000 |
| 2. | National Seminar on Electro and Magneto Ceramics Devices and System-02 (NSEMCDs-02) | Department of Physics and Electronics, Shankarrao Mohite Mahavidyalaya, Akulj. (MS) 413 101 | Akulj. | 21/10/2002 to 22/10/2002 |
| 3. | National Conference on Microwave and Optoelectronics (NCMO-04) | Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (MS) 431 004 | Aurangabad | 29/06/2004 to 30/06/2004 |
| 4. | National Symposia on Instrumentation (NSI-30) | Cochin University of Science & Technology, Cochin, Kerala | Cochin Kerala | 30/11/2005 to 02/12/2005 |
| 5. | National Seminar on Recent Advances in Sensors and Instrumentations (NSRASI-07) | Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj (MS) 413101 | Akulj | 15/10/2007 to 16/10/2007 |
| 6. | Two Day's Conference on Agile Methodologies | Department of Computer Science & Technology, Goa University, Goa in Collaboration with Agile Software Community of India (ASCI) | Goa | 30/10/2007 to 31/10/2007 |
| 7. | National Conference on Emerging Trends in Electronics and Computer Science | Department of Electronics, Padmashree Dr. D. Y. Patil Arts, Commerce & Science College, Pimpri, Pune-18 | Pimari, Pune | 08/02/2010 to 10/02/2010 |
| 8. | UGC sponsored National Conference on Advanced Nanomaterials, Sensors & Instrumentation (NCANSI 2010-11) | Dept. of Electronics, DBF Dayanand College of Arts & Science, Solapur MS 413002 | Solapur | 21/01/2011 to 22/01/2011 |
| 9. | UGC sponsored National Seminar | Dept. of Physics, K.B. P. | Pandharpur | 03/10/2011 |

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|-----|---|--|-----------|--|
| | on Nanostructured Materials for Advanced Technology (NS-NMAT-2011) | Mahavidyalaya, Pandharpur, MS | | to 04/10/2011 |
| 10. | National Seminar on Advances in VLSI Design & Technology (NSAVDT-2011) | Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj (MS) 413101 | Akulj | 19/12/2011 to 20/12/2011 |
| 11. | A national Conference On Emerging technologies for Sustainable developments | Dept. of Technology, Shivaji University, Kolhapur, | Kolhapur | 27/12/2012 to 28/12/2012 |
| 12. | National Conference On Recent Initiatives towards Green Electronics | Department of Electronics Brijlal Biyani Science College Amrawati. | Amrawati | 08/02/2013 to 09/02/2013 |
| 13. | National Conference On Latest Advance, Trends in Electronic Science and Technology (LATEST-2014) | Department of Electronics Shivaji University, Kolhapur jointly with Department of Electronics Engineering, KIT's College of Engineering, Kolhapur | Kolhapur | 14/02/2014 to 15/02/2014 |
| 14. | National Conference on Advances in Electronics and its Interdisciplinary Applications (NCAEIA-2014) | Department of Electronics, Fergusson College, Pune (MS) in association with Society for Promotion of Excellence in Electronics Discipline (SPEED) | Pune | 19/09/2014 to 20/09/2014 |
| 15. | National Conference on Modern Approach for Green Electronics and Computing (MAGEC-2014) | Department of Electronics, Yashwantrao Chavan Institute of Science, Satara (MS) sponsored by UGC, WRO, Pune | Satara | 29/09/2014 to 30/09/2014 |
| 16. | National Conference on Advances in Wireless Sensor Network and Its Applications (NCAWSNA-2014) | Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akulj, in association with IEEE Solid State Circuit Society, India Chapter | Akulj | 12 th -13 th December 2014 |
| 17. | National Level Conference on Recent Advances in Embedded Technology (NCRAET-2015) | Department of Electronics, Ramkrishna Paramhansa Mahavidyalaya, Osmanabad UGC WRO, Pune Sponsored | Osmanabad | 29 th -30 th January 2015 |
| 18. | National Conference on Emerging Trends in Electronics and Computer Science (ETECS-2015) | UGC-SAP, DST-PURSE, IEEE India SSCS & CASS Chapter and Jointly organized by Department of Electronics and Department of Computer Science, Shivaji University, Kolhapur | Kolhapur | 13 th -14 th February 2015 |
| 19. | National Conference on Emerging Trends in Electronics (NCETE-2016) | UGC-SAP, organized by Department of Electronics, Shivaji University, Kolhapur | Kolhapur | 09 th February 2016 |
| 20. | National Conference on Innovative Trends in Electronics and Allied Technology (ITEAT-2017) | Department of Electronics and Computer Science, YC Institute of Science, Satara, MS Sponsored by UGC-CPE, New Delhi and Technically Sponsored by SPEED Pune | Satara | 23/02/2017 |
| 21. | National Webinar On Effective Ways To Develop E-Content | IQAC, Smt. Devkiba Mohansinhji Chauhan College Of Commerce And Science, Silvassa in Collaboration with Knowledge Bridge, Ahmadnagar | Silvassa | 09/05/2020 |
| 22. | National Webinar on Role of IQAC in Quality Sustenance | IQAC, Smt. Kasturbai Walchand College, Sangli | Sangli | 03/06/2020 |

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|-----|---|---|------------|------------|
| 23. | National Webinar on IoTs in Electronic Biomedical Instrumentation | Department of Electronics K.B. P. Mahavidyalaya, Pandharpur, MS | Pandharpur | 03/11/2020 |
| 24. | One Day National Webinar on Intellectual Property Rights for Academic Researchers | IQAC, S. K. W. College, Sangli | Sangli | 03/03/2021 |
| 25. | One Day National Webinar On ICT Challenges in Implementation of NEP-2020 and Microwave Antennas and Radar | Department of PG Studies and Research in Applied Electronics, Gulbarga University, Kalaburagi | Kalaburagi | 08/04/2021 |
| 26. | One Day Online Webinar On Indian Railway Telecom System | MAEER'S, MIT College Of Railway Engineering And Research, Barshi | Barshi | 04/05/2021 |
| 27. | National Webinar on IoT: New Era of Digitization | Dept. of Electronics Science, TC College, Baramati | Baramati | 08/01/2022 |
| 28. | IP Awareness/Training program under National Intellectual Property Awareness Mission | Intellectual Property Office, India | Mumbai | 06/01/2022 |
| 29. | | | | |

8.3 State Level (03)

| Sr. No. | Title | Organized by | Place | Duration |
|---------|--|---|------------|--------------------------|
| 1. | State Level Seminar on Recent Developments In Embedded Technology (SS-RDET-2012) | Dept. of Electronics, K.B. P. Mahavidyalaya, Pandharpur, MS | Pandharpur | 21/12/2012 to 22/12/2012 |
| 2. | State Level One day Seminar on Environmental Protection: An Interdisciplinary Approach For Sustainable Development | Smt. Ratnaprabhadevi Mohite-Patil College of Home Science for Women, Akulj, MS UGC WRO, Pune Sponsored | Akulj | 26/09/2015 |
| 3. | Webinar on IOT World | E & TE Department of SMSMP Institute of Technology & Research, Akulj | Akulj | 24/10/2020 |
| 4. | | | | |

9. Invited Speaker/ Resource Person/ Chair Person of the conference/ workshop/seminars, etc. (15)

| Sr. No. | Name of the Event | Nature of Activity | Organized by | Year |
|---------|--|--|--|------------|
| 1. | One Week Short Term Training Program on Advances in Signal Processing Using VLSI | Talk on Advances in Mixed signal VLSI Design | Department of Electronics Engineering, KIT College of Engineering, Kolhapur | 01/01/2013 |
| 2. | One day Workshop on Revised Syllabus of B.Sc. III Electronics | Talk on PLD & VHDL | Dept. of Electronics, DBF Dayanand College of Arts & Science, Solapur-02 MS | 02/12/2012 |

| | | | | |
|-----|---|---|---|--|
| 3. | Two Day Workshop on Configurable System Design | Hands On Cypress PSoC5 | Department of Electronics & Computer Science, RTM Nagpur University, Nagpur | 19/10/2013 |
| 4. | ISTE Approved Short Term Training Program on Recent Trends in Communication Engineering and Methodology | Talk and Hands on Programmable System-on-Chip (PSoC) | Department of Electronics Engg, Bharati Vidyapeeths College of Engineering, Kolhapur | 16/01/2014 |
| 5. | Engineering & Technology Ph.D. Course work 2014 | Talk on Micro Electro Mechanical System (MEMS) | Dept of Technology, Shivaji University, Kolhapur | 09/06/2014 |
| 6. | ISTE Approved Short Term Training Program on Emerging Trends in VLSI and Embedded System: A System on Chip Approach | Hands On Cypress PSoC5 | Department of Electronics Engineering, Annasaheb Dange College of Engineering and Technology, Ashta , Dist. Sangli | 28/11/2014 |
| 7. | UGC Sponsored National Level Conference on Recent Advances in Embedded Technology (NCRAET-2015), | Chair Person of the Two Technical Sessions (Oral Presentations) | Department of Electronics, Ramkrishna Paramhansa Mahavidyalaya, Osmanabad | 29 th - 30 th January 2015 |
| 8. | UGC Sponsored Refresher Course in Scientific Computations | Talk on Architecture of PSoC | UGC-Human Resource Development Center, RTM Nagpur University, Nagpur | 19/12/2015 |
| 9. | UGC Sponsored Refresher Course in Scientific Computations | Talk on Programming Techniques for PSoC | UGC-Human Resource Development Center, RTM Nagpur University, Nagpur | 19/12/2015 |
| 10. | UGC-SAP Sponsored National Conference on Emerging Trends in Electronics (NCETE-2016) | Chair Person of the Technical Sessions (Oral Presentations) | Department of Electronics, Shivaji University, Kolhapur | 09/02/2016 |
| 11. | STTP on PIC and ARM Controller-Programming and Applications | Talk on PSoC ARM Cortex M3- Programming and Applications | Department of Electronics Engineering, Karmyogi Engineering College, Pandharpur | 20/06/2016 |
| 12. | Two Days State Level Seminar on Recent trends in Nanoscience and Nanotechnology | Talk on Scaling Down An Instrumentation: Deploying Analog Mixed Signal Technology | Shri Dhokeshwar College, Takali Dhokeshwar , Dist. Ahmednagar | 13/02/2020 to 14/02/2020 |
| 13. | National Webinar on Biomedical Instrumentation and It's Application | Talk on Bioinstrumentation Deploying AMS Technology | Department of Electronics, Kamala Neharu Mahavidyalaya, Nagpur | 21/05/2020 |

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|-----|--|---|---|--------------------------|
| 14. | Two Days National Web Conference on Emerging Trends in Electronics and Computer Science (ETECS-2020) | Talk on Realization of SoC Deploying Innovative Mixed Signal Technology | Department of Electronics and Computer science, Smt. Kasturbai Walchand College, Sangli | 22/06/2020 to 23/06/2020 |
| 15. | National Level Online Student Development Program 'Knowledge Fair 2K20' | Talk on Scaling Down Instrumentation: Deploying AMS Technology | E & TE Department, SB Patil College of Engg., Indapur in Association with III and CEC Cell | 05/11/2020 |

10. Guest/Invited Lectures/Talk Delivered (05)

| Sr. No. | Nature of Lecture (Academic / Social) | Topic | Date | Organizing Institute/Body | Place |
|---------|---------------------------------------|--|------------|---|-----------------|
| 1. | Academic | Transducer & Instrumentation | 30/06/2008 | PG Dept. of Electronics, RP College, Osmanabad | Osmanabad |
| 2. | Academic | Verilog Fundamentals | 22/10/2013 | PG Dept. of Electronics, TC College, Baramati | Baramati |
| 3. | Academic | Wireless Sensor Network Optimization | 23/04/2016 | Dept. of E & TC, SVERI College of Engg., Pandharpur, Dist. Solapur | Pandharpur |
| 4. | Academic | Electronics: Opportunities and Latest Trends | 13/03/2022 | Dept. of Electronics, Shivaji College, Barshi | Barshi (online) |
| 5. | Academic | Electronics: Opportunities and Recent Trends | 10/04/2024 | Dept. of Electronics, Smt. Kasturbai Walchand College of Arts & Science, Sangli | Sangli |

11. Chief Guest/ Judge for Various Activities (04)

| Sr. No. | Nature of Event (Academic / Social) | Event | Date | Organizing Institute/Body | Place |
|---------|-------------------------------------|--|---|--|--------------------|
| 1. | Academic | SYNCHRON 2K19 (A Project Competition) | 09/03/2019 | Sahakar Maharshi Shankarrao Mohite Patil Institute of Technology and Research, Shankarnagar-Akluj. | Shankarnagar-Akluj |
| 2. | Academic | Avishkar Exhibition | 17/10/2019 | Sahakar Maharshi Shankarrao Mohite Patil Institute of Technology and Research, Shankarnagar-Akluj. | Shankarnagar-Akluj |
| 3. | Academic | Chair the Valedictory function of Two Days | 13 th -14 th February | Shri Dhokeshwar College, Takali | Takali Dhokeshwa |

| | | | | | |
|----|----------|--|--------------------|---|--------------------|
| | | State Level Seminar on Recent trends in Nanoscience and Nanotechnology | 2020 | Dhokeshwar, Dist. Ahmednagar | r |
| 4. | Academic | Guest of 'Techswarupa-2K2 | 22nd February 2021 | Sahakar Maharshi Shankarrao Mohite Patil Institute of Technology and Research, Shankarnagar-Akluj | Shankarnagar-Akluj |
| 5. | | | | | |

12. Referee/Reviewer/Editor for Journals

| Sr. No. | Name of the Journal | Name of Publisher | Level | Place | Year | No. of paper |
|---------|---------------------------------------|---|---------------|------------------|------|--------------|
| 1. | International Journal of Electronics* | Taylor & Francis, UK www.tandfonline.com | International | London, UK | 2017 | 01 |
| 2. | International journals on Engineering | Meta Research Press (MRP) www.mrpress.org | International | New Delhi, India | 2017 | -- |
| 3. | | | | | | |

* VRSMT: Vigorous Routing Using Steiner Minimum Tree Based Routing in WSN-IoT

J) Membership

| Sr. No. | Name of the Body (Academic/Professional/Social) | Position held | Type of Membership (Life Member/Temporary) | Since From – To |
|---------|--|---------------|--|-------------------|
| 1 | Shivaji University Teachers Association (SUTA) | Member | Life member | 1996 to this date |
| 2 | All India Federation of University & College Teachers Organization (AIFUCTO) | Member | Life member (MH/10/827) | 1996 to this date |
| | | | | |

K) Position held in Interviews (08)

| Sr. No. | Name of the Institute/College | Name of the Post | Position | Date | Place |
|---------|--|-------------------------|----------------|-------------|--------------------|
| 1. | Sangola Mahavidyalaya, Sangola, Dist Solapur | Lecturer in Electronics | Subject Expert | August 2002 | Sangola |
| 2. | Jijamata Shikshan Prasarak Mandal, Sarati, Tal Indapur, Dist. Pune | Assistant Professor | Subject Expert | 04 May 2014 | Sarati, Dist. Pune |
| 3. | Jijamata Shikshan Prasarak Mandal, Sarati, Tal Indapur, Dist. Pune | Assistant Professor | Subject Expert | April 2015 | Sarati, Dist. Pune |
| 4. | KBP College, Pandharpur | Assistant Professor | Subject Expert | 28/06/2019 | Pandharpur |
| 5. | Greenfigures College of Computer and Technology, | Assistant Professor | Subject Expert | 23/07/2021 | Yeshwantnagar- |

| | | | | | |
|----|---|---------------------|----------------|------------|----------------------------|
| | Yeshwantnagar-Akluj | | | | Akluj |
| 6. | Madansinh Mohite-Patil Science Mahavidyalaya, Mangalwedha | Assistant Professor | Subject Expert | 23/07/2021 | Shankarn agar- Akluj |
| 7. | KWC, Sangli | Assistant Professor | Subject Expert | 17/08/2023 | Sangli |
| 8. | Shri, Shivaji College, Barshi | Assistant Professor | Subject Expert | | Barshi |

L) Position held in the National/International Seminar Organized: 08

| Sr No | Level | Sponsored by | Position held | Theme | Duration |
|-------|----------|--|---------------------------------------|--|--------------------------|
| 1. | National | UGC, WRO, Pune & DAE-BRNS Mumbai | Member, Organizing Committee | National Seminar on Electro and Magneto Ceramics, Devices and Systems (NSEMCDs-02) | 21/10/2002 to 22/10/2002 |
| 2. | National | National Assessment & Accreditation Council (NAAC) Bangalore | Chairmen, Technical Support Committee | Students' Participation in Assurance and Enhancement of Quality in Higher Education | 22/12/2006 to 23/12/2006 |
| 3. | National | UGC, WRO, Pune & DAE-BRNS Mumbai | Member, Organizing Committee | National Seminar on Recent Advances in Sensors and Instrumentation (NSRASI-07) | 15/10/2007 to 16/10/2007 |
| 4. | National | UGC, WRO, Pune, Cypress Semiconductor Corporation (USA), Bangalore, IEEE India Chapter | Member, Organizing Committee | National Seminar on Recent Advances in VLSI Design & Technology (NSAVDT-2011) | 19/12/2011 to 20/12/2011 |
| 5. | National | UGC, WRO, Pune and in association with IEEE Solid State Circuit Society, India Chapter | Member, Organizing Committee | National Conference on Advances in Wireless Sensor Network and Its Applications (NCAWSNA-2014) | 12/12/2014 to 13/12/2014 |
| 6. | National | Jointly organized by Dept. of Electronics (UG & PG) SMM, Akluj and Dept of E & TC, SMSMP Institute of Tech. and Research, Shankarnagar-Akluj | Program Chair | One Week National Level Faculty Development Program (FDP) | 10/03/2021 to 16/03/2021 |
| 7. | National | Shankarrao Mohite Mahavidyalaya, Akluj | Program Chair | National Webinar on Recent Trends and Opportunities in Electronics (RTOE-2022) | 28/05/2022 |

| | | | | | |
|----|---------------|---|------------------|---|-------------|
| 8. | International | Shankarrao Mohite Mahavidyalaya, Akluj | Program Chair | International Webinar on Electronics : Recent Trends and Opportunities (IWERTO-2024) | 15/03/2024. |
|----|---------------|---|------------------|---|-------------|

M) Position held in the State/National Level Workshop Organized: 06

| Sr No | Level | Sponsored by | Position held | Theme | Duration |
|-------|---------|--|------------------------------|---|--------------------------|
| 1. | State | Solapur University and S.P.J Embedded Technologies, Pune | Member, Organizing Committee | State Level Workshop on Embedded System Development (SLWESD-08) | 25/07/2008 to 27/07/2008 |
| 2. | State | University Grants Commission WRO, Pune & Scientech | Member, Organizing Committee | State Level Workshop on PLC Programming and Applications (SLWPLC-2010) | 19/02/2010 to 21/02/2010 |
| 3. | State | University Grants Commission WRO, Pune & S.P.J Embedded Technologies, Pune | Member, Organizing Committee | State Level Workshop on ARM based Embedded System Development (ABESD-2010) | 08/10/2010 to 10/10/2010 |
| 4. | College | Self | Member | One day workshop PCB Design and Fabrication | 12/12/2012 |
| 5. | State | ARM University, UK | Member | ARM University Program , UK Sponsored Three Days State Level Workshop on ARM Cortex M based Embedded System design (ARM-ESD-2015) | 28/11/2015 to 29/11/2015 |
| 6. | College | Webinar on Intellectual Property Right Awareness Program (IPRAP) | Program Chair | Organized by Dept. of Electronics (UG & PG), SMM, Akluj under the banner of 'Azadi Ka Amrit Mahotsav' and National Intellectual Property Awareness Mission (NIPAM), Dept. for Promotion of Industry and Internal Trade (DPIIT), Office of the Controller General of Patents, Designs & Trademarks, Ministry of Commerce & Industry, GOI | 06/01/2022 |

N) Position held in the Various Committees of the University

| Sr No | Name of the Committee | Position held | Year |
|--------------|---|--------------------------|--------------------------------|
| 1. | CRC/DRC in Electronics, Punyashlok Ahilyadevi Holkar Solapur University, Solapur | Chairmen | From 12/11/2021 |
| 2. | RRC in Electronics, Punyashlok Ahilyadevi Holkar Solapur University, Solapur | Member | From 16/04/2022 |
| 3. | BOS in Electronics, Solapur University, Solapur | Member | From Oct 2017 |
| 4. | BOS in Electronics, Modern College of Arts, Science and Commerce, Shivajinagar, Pune – 411005 | Member | from May 2019 |
| 5. | BOS in Electronics, KBP Mahavidyalaya, Pandharpur | Member | from May 2023 |
| 6. | Interview board meeting for Placement / Promotion of Assistant professor to Associate professor / Associate professor to Professor under CAS as per UGC Regulation 2018 and Govt. of Maharashtra GR 2019 at PAHSUS. | Member as Subject Expert | 10 th February 2021 |
| 7. | 48(3)(a) in Electronics, Solapur University, Solapur | Member | From June 2018 for 5 years |
| 8. | M.Sc.-II Syllabus Sub-committee, Solapur University, Solapur | Member | 20/02/2014 |
| 9. | M.Sc.-I Syllabus Sub-committee, Solapur University, Solapur | Member | 24/02/2014 |
| 10. | M.Sc. Electronics Examinations, Solapur University, Solapur | Chairmen | Oct 2013 – April 2015 |
| 11. | M.Sc. Syllabus Sub-committee, Solapur University, Solapur | Member | 2010 |
| 12. | B.Sc.- II Syllabus Sub-committee, Solapur University, Solapur | Member | 2010 |
| 13. | B.Sc.-II Grievance Redressal | Member | 2007 |
| 14. | M.Sc.-II Syllabus Sub-committee (CBCS pattern)), Solapur University, Solapur | Member | Nov 2014 |
| 15. | LIC Ist Affiliation MSc-I Electronics (IoT) as Subject Expert PAHS Solapur University, Solapur (Barshi) | Member as Subject Expert | 03/09/2022 |
| 16. | LIC Affiliation MSc-I & II Electronics (IoT) as Subject Expert PAHS Solapur University, Solapur (Barshi) | Member as Subject Expert | 15/03/2023 |
| 17. | LIC Affiliation MSc-I & II Electronics (IoT) as Subject Expert PAHS Solapur University, Solapur (Barshi) | Member as Subject Expert | 03/04/2024 |
| 18. | LIC Affiliation BCA I as Chairmen PAHS Solapur University, Solapur (Pandharpur) | Chairmen | 17/08/2024 |
| 19. | BOS in Electronics, Willindon College, Sangli | Member | from Aug 2024 |

O) Position held in the Various Committees in the College

| Sr No | Name of the Committee | Position held | Year |
|--------------|--|----------------------|--------------------|
| 1. | Admission and Counseling Committee for B.Sc.- I, Electronics | Member | From 1996 to 2013 |
| 2. | Computer Training Programming under TRISEM (Govt. of Maharashtra) | Member | 1996-97 |
| 3. | NSS advisory committee, Shankarrao Mohite Mahavidyalaya, Akulj | Member | 2000-01 |
| 4. | Felicitation committee Annual Prize Distribution Function | Member | 2002-08 |
| 5. | Network Resource Center | Member | Since 2005 |
| 6. | Research Committee | Member | 2005 |
| 7. | Admission and Counseling Committee for M.Sc. I & II Electronics | Member | Since -2006 |
| 8. | Boy's Hostel Committee | Chairmen | 2008-2012 |
| 9. | Placement and Pay Fixation Committee | Member | 2009 |
| 10. | UGC sponsored Remedial Coaching Scheme for students of SC/ST Categories (XI th Plan) | Co-ordinator | 2010-2012 |
| 11. | Pay Fixation 14940/- Committee | Member | 2011 |
| 12. | Placement and Pay Fixation Committee | Member | 2012 |
| 13. | Data Capture Format-II, All India Survey on Higher Education (AISHE), MHRD, New Delhi | Nodal Officer | Since 2012 to 2021 |
| 14. | UGC sponsored Remedial Coaching Scheme for students of SC/ST Categories (XII th Plan) | Co-ordinator | Since 2013 |
| 15. | Placement and Pay Fixation Committee (College Teacher) | Chairman | 2012 |
| 16. | College Assessment Data Synchronization Committee | Chairman | Since Oct. 2016 |
| 17. | Prime Minister's Special Scholarship Scheme (PMSSS) for J & K | Nodal Officer | Since 2019 |
| 18. | NPTEL Local Chapter | SPOC | Since 2019 |
| 19. | IQAC | Member | Since June 2019 |
| 20. | NAAC Criteria –III for Cycle III | Chairman | Since June 2019 |
| 21. | NAAC Criteria –II for Cycle IV | Chairman | June 2022 to 2024 |

P) Prize/Awards received

| Sr. No. | Name of the Award / Prize | Conferring Body | Year |
|---------|---|--|--|
| 1. | Teacher Fellowship for M.Phil. | UGC, WRO, Pune | 2005-06 |
| 2. | First Prize as a Best Research Paper ¹ Presentation (PP) | UGC sponsored National Conference on Advanced Nanomaterials, Sensors & Instrumentation (NCANSI 2010-11), Organized by Dept. of Electronics, DBF dayanand College of Arts & Science, Solapur MS 413002 | 2011 |
| 3. | Second Prize in under Pure Science Category at Teacher Level ² | Solapur University, Solapur AVISHKAR-2012 University Level Research Festival organized by Sangola College, Sangola | 22 nd -23 rd Dec. 2012 |
| 4. | First Prize in under Pure Science Category at Teacher Level ³ | Solapur University, Solapur AVISHKAR-2013 University Level Research Festival organized by Nagesh Karajgi Orchid College of Engg. & Tech., Solapur | 01 st -02 nd Jan. 2014 |
| 5. | First Prize as a Best Research Paper ⁴ Presentation (OP) | National Conference On Latest Advance, Trends in Electronic Science and Technology (LATEST-2014) Department of Electronics, Shivaji University Kolhapur jointly with Department of Electronics Engineering, KIT's College of Engineering, Kolhapur | 2014 |
| 6. | Teacher Fellowship for Ph. D. | UGC, WRO, Pune | 2014-2016 |
| 7. | Best Research Paper ⁵ Presentation (OP) | National Conference On Emerging Trends in Electronics and Computer Science (ETECS-2015), Jointly Organized by Department of Electronics and Department of Computer Science, Shivaji University, Kolhapur | 2015 |
| 8. | Best Research Paper ⁶ Presentation (OP) | 1 st International Conference on Digital Signal and Image Processing (ICoDSIP-2017) Organized by Department of Electronics & Telecommunication Engineering, Maharashtra Institute of Technology, Aurangabad, MS, India | 2017 |
| 9. | Best Research Paper ⁷ Presentation (OP) | 1 st International Conference on Digital Signal and Image Processing (ICoDSIP-2017) Organized by Department of Electronics & Telecommunication Engineering, Maharashtra Institute of Technology, Aurangabad, MS, India | 2017 |
| 10. | | | |

¹ Data Acquisition System for Susceptibility Measurement.

² Development of Mixed Signal Based Embedded System for Temperature Compensated pH Measurement.

³ Development of VLSI Technology Based Embedded PSoC for Measurement of TDS of Water.

⁴ Synthesis of Mixed Signal VLSI Based SoC for Measurement of AC Electrical Conductivity.

⁵ Mixed Signal Based System-on-Chip Design for Monitoring of Physicochemical Parameters of the Water.

⁶ Synthesis of AMS Based System-on-Chip for Measurement of Physicochemical Parameters of Water.

⁷ Designing of Wireless Sensor Network for Real-Time Patrolling of the border.

Q) Question Paper Setter

| Sr. No. | Name of University | Class | Subject | Year | Remark |
|---------|----------------------------------|-------------------|--------------------|---------------|--------|
| 1. | Solapur University, Solapur | RMEA-COP-UGC | Certificate Course | 2008 | Theory |
| 2. | Solapur University, Solapur | M.Sc. | Electronics | Since 2010-11 | Theory |
| 3. | Solapur University, Solapur | M.Phil./Pre Ph.D. | Electronics | 2010-11 | Theory |
| 4. | Amaravati University, Amaravati. | M.Sc. | Electronics | Since 2015 | Theory |
| 5. | Solapur University, Solapur | M.Sc. Entrance | Electronics | Since 2019-20 | Theory |
| 6. | Solapur University, Solapur | B.Sc. | Electronics | Since 2013-14 | Theory |

R) Examination Work

| Sr. No. | Name of the Exam. | Position Held Sr.Supervisor- Ext/Int/Examiner/ Moderator/Paper- Setter/Chairman | Theory / Practical | Month & Year | Name of the University |
|---------|------------------------|---|-----------------------|--------------------|----------------------------------|
| 1. | B.Sc. | Ext. Examiner | Practical | 2000- 2005 | Shivaji University, Kolhapur |
| 2. | B.Sc. | Ext. Examiner | Practical | Since 2005 | Solapur University, Solapur |
| 3. | University Theory Exam | Sr. Supervisor (II Session, SMM) | Theory | Mar 2007 | Solapur University, Solapur |
| 4. | M.Sc. | Ext. Examiner | Theory | Since 2010 | Solapur University, Solapur |
| 5. | M.Sc. | Int. Examiner | Practical | Since 2011 | Solapur University, Solapur |
| 6. | M.Sc. | Ext. Examiner | Practical | 2016 | Amaravati University, Amaravati. |
| 7. | University Theory Exam | Sr. Supervisor (IV Session, SMM) | Theory | Oct 2013 | Solapur University, Solapur |
| 8. | University Theory Exam | Sr. Supervisor (III Session, SMM) | Theory | Oct 2017 (one Day) | Solapur University, Solapur |
| 9. | University Theory Exam | Sr. Supervisor (I Session, SMM) | Theory | Oct 2018 | Solapur University, Solapur |
| 10. | University theory Exam | Sr. Supervisor (II Session, SMM) | Theory | March 2022 | PAHSUS, Solapur |

S) Guide For Project Competition

| Sr No | Title of the project | Names of the Students | Names of the Supervisors/ Guides | Event & Year | Category | Level | Remark |
|-------|---|---------------------------------|---|-----------------|--------------|--------------------|--------|
| 1. | Development of Microcontroller Based Smart System for Home Security | Jadhav R. Y. Upadhye B. B. | Prof. S. K. Tilekar Prof. S. N. Patil | Avishkar 2009 | Pure Science | UG | -- |
| 2. | Online Monitoring of pH and Temperature of Boiler Water of Sugarcane Industry | Mhoparkar R.B.* Nikam S. V.* | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2009 | Pure Science | M.Phil /Docto rate | -- |

| | | | | | | | |
|-----|--|--|---|---------------|---------------|----------------|-----------------------------|
| 3. | Microcontroller Based Embedded System for Home Security | Pawar A. S. Upadhye B. B. | Prof. S. K. Tilekar Prof. Miss. P. A. Pote | Avishkar 2010 | Engg. & Tech. | UG | 1st prize |
| 4. | Development of zigbee technology based wireless sensor network system for greenhouse applications | A. M. Pawar * S. N. Patil | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2010 | Pure Science | Docto rate | 1st prize |
| 5. | Mixed signal based embedded system design to measure temperature & pH of the boiler water | S. C. Pathan * S. V. Nikam * | Prof. S. K. Tilekar | Avishkar 2011 | Pure Science | M.Phil | -- |
| 6. | Development of Mixed signal based embedded system for temperature compensated pH measurement. | Prof. S. K. Tilekar | Dr. B. P. Ladgaonkar | Avishkar 2012 | Pure Science | Teach er | 2nd prize |
| 7. | Synthesis of Polycrystalline Ferrite Based humidity sensor. | Mr. S. N. Patil Miss. A. M. Pawar | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2012 | Pure Science | Docto rate | 1st prize |
| 8. | Study of Smart Fusion VLSI Technology to Develop Mixed Signal Based SoC for Agricultural Application | Miss. S. C. Pathan Mr. S. S. Shaikh | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2012 | Pure Science | Docto rate | 2nd prize |
| 9. | Implementation of Mixed Signal Based VLSI Technology to design SoC for detection of Gasses | Miss. Renuka Ashok Kawade Mr. Adsul Yogesh Namdeo | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2012 | Engg & Tech. | Post Gradu ate | 2nd prize |
| 10. | Development of VLSI technology based embedded PSoC for measurement of TDS of water. | Prof. S. K. Tilekar Prof. S. N. Patil | Dr. B. P. Ladgaonkar | Avishkar 2013 | Pure Science | Teach er | 1st Prize |
| 11. | Development of AVR microcontroller based smart viper system for automobiles | Shinde Vidya Dinkar | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2016 | Engg & Tech | PG | -- |
| 12. | Synthesis of Electronic voting machine by deploying biometric sensor to avoid fake voting | Shendage Rama Sinnapa | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2016 | Engg & Tech. | UG | -- |
| 13. | Study of impact of regional language on English pronunciation | Korake Sujata | Prof. S. K. Tilekar Dr. B. P. Ladgaonkar | Avishkar 2016 | Pure Science | UG | -- |

Co-curricular Activities:

1. Active participation in arranging “**Melting Man**” Experiment in Anand Yatra (1998) at Golden jubilee year celebration of Shikshan Prasarak Mandal Akulj, Vidnyan and Krishi Exhibition.
2. **Guide** for Departmental projects in Electronics at M.Sc. & B.Sc.
