

# **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 : 26<sup>th</sup> 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 : 10<sup>th</sup> 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**

<b>Sr No</b>	<b>Name of Exam.</b>	<b>Specialization</b>	<b>Board/ University</b>	<b>Marks in %</b>	<b>Class/Grade Obtained</b>	<b>Year of passing</b>
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**

<b>Sr. No.</b>	<b>Name of the Institute / College</b>	<b>U.G. / P.G. Level</b>	<b>Nature of the Post (Part-Time, C.H.B./Full Time, Visiting Faculty)</b>	<b>Period From – To</b>
1	Shankarrao Mohite Mahavidyalaya, Akluj	UG	Full Time	Since 1995
		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	: <b>53</b>
• Book published by Lambert Academic Publisher (LAP)	: <b>05</b>
• Research Papers Published in Proceedings of the Conference/Seminars	: <b>34</b>
• Research Papers Presented In National/State Conferences/ Seminars	: <b>96</b>
• Research Papers Presented In International Conferences/ Seminars	: <b>11</b>
• Research Papers Presented In International (Abroad) Conferences/Seminars	: <b>01</b>
• Students working for Ph. D. Degree	: <b>03</b>

### **M.Phil. Degree**

1) Date of Registration for M.Phil.	: <b>24/10/2005</b>
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 X <sup>th</sup> plan of FIP.
5) Period of Fellowship	: 14 <sup>th</sup> Oct. 2005 to 13 <sup>th</sup> Oct. 2006
6) Date of Dissertation Submission	: 08/08/2007.
7) Date of Degree declaration	: <b>22/01/2009.</b>
8) Name of Research Guide	: Prof. Dr. B.P. Ladgaonkar : Associate Professor & Head, : PG Department of Electronics : Shankarrao Mohite Mahavidyalaya, Akluj

### **Ph.D. Degree**

1) Date of Registration	: <b>10<sup>th</sup> Oct. 2010</b>
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 XII <sup>th</sup> plan of FIP.
5) Period of Fellowship	: 22 <sup>nd</sup> Feb. 2014 to 21 <sup>st</sup> Feb. 2016.
6) Actual Period of Fellowship	: 22 <sup>nd</sup> Feb. 2014 to 30 <sup>th</sup> March 2015.
7) Date of Thesis Submission	: 28/03/2015.
8) Date of Degree declaration	: <b>21/11/2015.</b>
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 Instrumentation for Initial Permeability	Reference In English	LAP Lambert Academic Publishing	ISBN : 978-620-3-02672-6	Shivaprasad Tilekar Bhimarao Ladgaonkar Suhas Patil

			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 Anfangsperm eabilität	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

	Measurement		11/09/2020		
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## 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.
<b>2007-08</b>					
1.	B.P. Ladgaonkar <b>S.K. Tilekar</b> A.S. Vaingankar	PC based system for magnetic permeability measurement.	Journal of Instrumentation Society of India, (ISSN 0970-9983)	38 (3) 2008	163-175
<b>2010-11</b>					
2.	<b>S.K. Tilekar</b> 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
<b>2011-12</b>					
3.	S.N. Patil, <b>S.K. Tilekar</b> 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
<b>2012-13</b>					
4.	B.P. Ladgaonkar, S.N. Patil and <b>S.K. Tilekar</b>	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
<b>2013-14</b>					
5.	<b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> 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
<b>2014-15</b>					
7.	<b>S. K. Tilekar</b> , Abhay Tambe, S. S. Shaikh, 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, <b>S. K. Tilekar</b> 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-Deshmukh, <b>S. K. Tilekar</b> , 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

	V Chavan and B. P. Ladgaonkar				
<b>2015-16</b>					
10.	S. V. Chavan, <b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> 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
<b>2016-17</b>					
12.	P. V. Mane Deshmukh, S. C. Pathan, S. V. Chanvan, <b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> and S. A. Pawar	Designing of an Embedded System to Control the Temeprature of Polyhouse	International Journal of Electronics and Communication Engineering & Technology (IJECET), (ISSN: 0976-6472)	7 (6) 2016	39-47
14.	<b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Designing of Wireless Sensor Network for Real-Time Patroling of the border	Int. Journal of Engineering and Advanced Technology (IJEAT) (ISSN: 2249-8958)	6 ICDS IP17 2017	153-157
<b>2017-18</b>					
16.	S. V. Chavan, <b>S. K. Tilekar</b> , 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.	<b>S. K. Tilekar</b> , 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.	<b>S. K. Tilekar</b> , 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 <b>S. K. Tilekar</b>	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.	<b>S. K. Tilekar</b> , S. V. Chavan, S. N. Patil, B. P.	Analog Mixed Signal based Linear Control of Electric Motor Deploying CapSence	International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE),	7 (5) 2017	657-660

	Ladgaonkar and P. V. Mane-Deshmukh	Technology	(ISSN: 2277-128x)		
21.	P. V. Mane Deshmukh*, B. P. Ladgaonkar and <b>S. K. Tilekar</b>	Designing of Sun's Position Tracking System for Solar Panels	International Journal of Advanced Research in Computer Science and Software Engineering (ISSN: IIJARCSSE), (2277-128x)	7 (5) 2017	661-664
22.	S. V. Chavan*, B. P. Ladgaonkar and <b>S. K. Tilekar</b>	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 <b>S. K. Tilekar</b>	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, <b>S. K. Tilekar</b> 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 <b>S. K. Tilekar</b>	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 <b>S. K. Tilekar</b>	Monitoring the Environmental Parameters of Ring Conner Unit of Cotton Industry Using Wireless Sensor Network (WSN)	International Journal of Electrical Electronics & Computer Science Engineering (IJEECSE) (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 & <b>S. K. Tilekar</b>	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, <b>S. K. Tilekar</b>	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, <b>S. K. Tilekar</b> 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 (IJEECSE) (E-ISSN : 2348-2273, P-ISSN : 2454-1222)	5 (1) 2018	152-156
<b>2018-19</b>					
31.	S. C. Pathan, S. S. Shaikh, P. V. Mane-Deshmukh, D. M. Adat, <b>S. K. Tilekar</b> , 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-

	Mane-Deshmukh, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	technology for Wireless Sensor Network	Research in Electronics and Communication Engineering (IJARECE), (ISSN: 2278-909X)	2018	312
33.	<b>S. K. Tilekar*</b> , 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 <b>S. K. Tilekar</b> ,	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 <b>S. K. Tilekar</b>	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, <b>S. K. Tilekar</b> , 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
<b>2019-20</b>					
37.	D. M. Adat, P. V. Mane-Deshmukh, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> 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 <b>S. K. Tilekar</b>	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 <b>S. K. Tilekar</b>	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., <b>Tilekar S. K.</b> , 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
<b>2020-2021</b>					

42.	S.N. Patil, J.D. Deshpande, <b>S.K. Tilekar</b> , B.P. Ladgaonkar, A.M. Pawar	Synthesis and implementation of polycrystalline ferrite material for smart sensor module	Materials Today: Proceedings, Elsevier <a href="https://doi.org/10.1016/j.matpr.2020.07.139">https://doi.org/10.1016/j.matpr.2020.07.139</a> <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85105442669&amp;origin=inward&amp;txGid=6a0eca954f7cd7be17e791a441c88649">https://www.scopus.com/record/display.uri?eid=2-s2.0-85105442669&amp;origin=inward&amp;txGid=6a0eca954f7cd7be17e791a441c88649</a>	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 & <b>S. K. Tilekar</b>	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 & <b>S. K. Tilekar</b>	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 : <a href="https://doi.org/10.26634/jic.8.2.18259">https://doi.org/10.26634/jic.8.2.18259</a>	8(2) 2020	16-23
46.	D. M. Adat, U. G. Phule, <b>S. K. Tilekar</b> B. P. Ladgaonkar & P. V. Mane Deshmukh,	Synthesis of Ferrite based Sensor and Development of PIC 18F4550 based Sensor Module for Measurement of Ammonia Gas Concentration	Int. Research Journal of Engg. And Technology (IRJET), (e-ISSN: 2395-0056, p-ISSN: 2395-0072)	8 3 2021	2176-2184
47.	S. A. Pote, D. M. Adat, A. B. More, P. S. Wagh, T. K. Pise & <b>S. K. Tilekar</b>	Designing of PIC 16F877A Based pH Node for the Development of Water Quality Monitoring System for Housing Societies	Int. Research Journal of Engg. And Technology (IRJET), (e-ISSN: 2395-0056, p-ISSN: 2395-0072)	8 3 2021	1447-1452
<b>2021-2022</b>					
48.	R. A. Ghate, <b>S. K. Tilekar</b> and S. V. Chavan	Comparative Study of Intelligent and Smart Development Platforms Employed for Internet of Thing's Applications	Turkish Journal of Computer and Mathematics Education	12 12 2021	810-821
49.	S. C. Pathan, S. S. Shaikh, <b>S. K. Tilekar</b> , P. V. ManeDeshmukh, 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
<b>2022-2023</b>					
50.	N. N. Kumbhar, S. A. Tingare, S. S. Dalvi, S. K. Tilekar & P. V. Mane-Deshmukh	Humidity Monitoring Of Neonatal Intensive Care Unit Based On Programmable System On Chip	i-manager's Journal on Electronics Engineering, (ISSN Print: 2229-7286 ISSN Online: 2249-0760)	12 2 2022	9-15

51.	S. S. Tilekar, D. M. Adat, V. T. Pawar, S. K. Tilekar, A. S. Tilekar & P. V. Mane Deshmukh	Development Of Wireless Controlled Robot Arm For Industrial Applications	i-manager's Journal on Mechanical Engineering, (ISSN Print: 2230-9055, ISSN Online: 2249-0744)	12 4 2022	34-43
52.	Shweta A. Pote, Sumaiyya C. Pathan & S. K. Tilekar	Utilization of Ultrasonic Fogger for the Development of AVR Atmega8 Based Humidity Control System for Greenhouse Applications	i-manager's Journal on Electronics Engineering, (ISSN Print: 2229-7286 ISSN Online: 2249-0760)	12 4 2022	1-8
53.	Aryan S. Tilekar, Vidya N. Patil, Atulkumar A. Manchalwar, Satyam S. Tilekar, Aditya S. Tilekar, Shivaprasad K. Tilekar & Dipali M. Adat	Systematic Irrigation System Deploying Sensor Technology	i-manager's Journal on Instrumentation & Control Engineering, (ISSN Print: 2321-113X ISSN Online: 2321-1148)	12 1 2024	1-9
54.					

## 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
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.	<b>S. K. Tilekar</b> , 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, <b>Kolhapur</b> MS, ISBN 978-81-928717-1-4	2014	109- 113
3.	S. N. Patil, A. M. Pawar, <b>S. K.</b> <b>Tilekar</b> and B. P. Ladgaonkar	Synthesis and Characterization of Nanocrystalline MnZn Ferrite for Humidity Sensor			104- 108
4.					

## 5.3 Research Papers Published in Proceedings of the National Event (Conference, Seminars, Symposia, etc.) (31).

Sr. No.	Name of the Authors	Title of Research paper	Name of Proceeding	Year	P. No
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, <b>Akluj.(MS) NSEMCD-02</b>	2002	78-79
2.	R.H. Kumbhar	Development of System to			80-81

	B.P. Ladgaonkar S.K. Tilekar R.B. Mhoparkar S.I. Kulkarni	Measure Capacitance and Frequency	Proceeding published by Allied Publishers Pvt. Ltd, New Delhi (2003) ISBN: 81-7764-471-8		94-96
3.	B.P. Ladgaonkar R.H. Kumbhar S.K. Tilekar A.S. Vaingankar	Development of PC- Based X-Transformer Plotter			
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, <b>Aurangabad, MS.</b> ISBN: 81-88342-45-9	2004	540-543
6.	B.P. Ladgaonkar S.K. Tilekar A.S. Vaingankar	Development of PC based system for Temperature controlling in Continuous Mode	National Symposia on Instrumentation (NSI-30) Cochin University of Science & Technology, <b>Cochin, Kerala</b>	2005	271-276
7.	S. N. Patil, S. K. Tilekar, S. C. Watave and B. P. Ladgaonkar	Study of Humidity Sensitive Properties of the $ZnNiFe_2O_4$	National Seminar on Recent Advances in VLSI Design & Technology (NSAVDT-2011) Dept. of Electronics, Shankarrao Mohite Mahavidyalaya, <b>Akluj MS</b>	2011	119-123
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	Journal of Science Information (2011) ISBN: 2229-5836		137-141
9.	P. V. Mane-deshmukh, S. K. Tilekar & B.P. Ladgaonkar	Design And Development Of Zigbee Module Based Humidity Node For Wireless Sensor Network			210-214
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
13.	S. C. Pathan, S. S. Shaikh, S. K. Tilekar and B.P. Ladgaonkar	Designing Of Programmable System-On-Chip For 8051 Based Core			183-188
14.	S. K. Tilekar and B. P. Ladgaonkar	Design And Implementation Of PSoC Based $\Delta\Sigma$ ADC For Mixed Signal Embedded Design			189-193
15.	S.N.Patil S.K.Tilekar S.S. Shaikh A. M. Pawar B.P.Ladgaonkar	Data acquisition system for susceptibility measurement	UGC sponsored National Conference on Advanced Nanomaterials, Sensors & Instrumentation (NCANSI 2010-11), Organized by Dept. of Electronics, DBF dayanand College of Arts &	2011	98-102

			Science, Solapur-02 MS		
16.	A. S. Powar, S. K. Tilekar, and B.P. Ladgaonkar	Mixed Signal VLSI Technology to Design Programmable System on Chip to Measure Environmental Parameters of Polyhouse	National Conference on Recent Initiative towards Green Electronics (NCRIGE-2013) organized by Post Graduate Department of Electronics, Brijjal Biyani College, <b>Amarawati</b> Journal of Research in Electronics SPEED (2013) ISBN 2349-8226	2013	410- 412
17.	P. V. Mane Deshmukh, A. G. Pise, <b>S. K.</b> <b>Tilekar</b> 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)		553-56
18.	S. C. Pathan, S. S. Shaikh, P. V. Manedeshmukh, S. S. Bhosale, S. S. Magar, <b>S. K.</b> <b>Tilekar</b> and B. P. Ladgaonkar	Deployment of Smart Fusion Technology to design SoC for paper manufacturing industry	Journal of Research in Electronics SPEED (2015) ISBN 2349-8226	2014	129- 132
19.	<b>S. K. Tilekar</b> , 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, <b>S. K.</b> <b>Tilekar</b> and B. P. Ladgaonkar	Implementation of Nanocrystalline NiZn Ferrite for Smart Humidity Sensor Module			315- 318
21.	<b>S. K. Tilekar</b> , M. B. Bagale, C. B. Pise, P. V. Mane- Deshmukh, S. C. Pathan, B. P. Ladgaonkar	Implementation of CapSence Technology for Linear Control Electric Motor	National Conference on Modern Approach for Green Electronics and Computing (MAGEC-2014) organized by Department of Electronics, Yashavantrao Chavan Institute of Science, Satara (MS), sponsored by UGC, WRO, Pune		35-37
22.	D. L. Hegade, N. B. Hegade, P. V. Mane Deshmukh, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Designing of Cost Effective Sun's Position Tracking System Using AVR Atmega8L		2014	60-62
23.	G. B. Bhagat, S. V. Gaikwad, <b>S.</b> <b>K. Tilekar</b> and S. A. Pawar	AVR Microcontroller Based Temperature Control System For Greenhouse			90-93
24.	V. D. Badve*, D. D. Dige, S. S. Shaikh, S. C. Pathan, P. V. Manedeshmukh, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Development of Mixed Signal Based customizable System-on- Chip for Measurement concentration of CO <sub>2</sub> gas	National Conference on Advances in Wireless Sensor Network and Its Applications (NCAWSNA-2014), organized by Department of Electronics, Shankarrao Mohite Mahavidyalaya, Akluj		60-62
25.	<b>S. K. Tilekar</b> , A. N. Pawar*, S. P. Patil, P. V. ManeDeshmukh, S. S. Shaikh and	Designing Of Reconfigurable Mote To Monitor Temperature Compensated Dissolved Oxygen Concentration	Journal of Research in Electronics SPEED (2015) ISBN 2349-8226	2014	63-97

	B. P. Ladgaonkar			
26.	S. N. Patil*, A. M. Pawar, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Synthesis and Development of Nanosized Ferrite Sensors to Design an Embedded System for Carbon Dioxide Gas Monitoring		68-72
27.	P. V. Mane Deshmukh*, S.C. Pathan, <b>S.K. Tilekar</b> and B. P. Ladgaonkar	Development of Graphical User Interface for Wireless Sensor Network for Industrial Application		99-103
28.	G. B. Bhagat*, <b>S. K. Tilekar</b> and S. A. Pawar	Designing Of An Embedded System For Automatic Control Of Greenhouse Temperature In Day And Night Mode		129-132
29.	<b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> , 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
1.	B.P. Ladgaonkar, <b>S.K. Tilekar*</b> 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., <b>India</b>	2004 PP
2.	B. P. Ladgaonkar*, S. N. Patil and <b>S. K. Tilekar</b>	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, <b>China</b>	2013 OP
3.	<b>S. K. Tilekar*</b> , 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

	A. M. Pawar, <b>S. K. Tilekar*</b> and B. P. Ladgaonkar	of Nanocrystalline MnZn Ferrite for Humidity Sensor		PP
5.	<b>S. K. Tilekar*</b> , 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, <b>S. K. Tilekar*</b> 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*, <b>S. K. Tilekar*</b> and S. A. Pawar	AVR Microcontroller Based Automatic Plant Irrigation System For Greenhouse		2015 PP-180
9.	<b>S. K. Tilekar*</b> , 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 <sup>st</sup> International Conference on Digital Signal and Image Processing (ICoDSIP-2017) Organized by Department of Electronics & Telecommunication Engineering, Maharashtra Institute of Technology, Aurangabad, <b>MS, India</b>	2017 OP-65
10.	P. V. Mane-Deshmukh, <b>S. K. Tilekar*</b> & B. P. Ladgaonkar	Designing of Wireless Sensor Network for Real-Time Patroling 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
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, Akluj.(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

	R.B. Mhoparkar S.I. Kulkarni				
3.	B.P. Ladgaonkar R.H. Kumbhar S.K. Tilekar A.S. Vaingankar	Development of PC- Based X-Transformer Plotter		PP 94-96	
4.	S.K. Tilekar B.P. Ladgaonkar R.H. Kumbhar S.N. Pise	Street and Traffic Light Controller			
2004-2005					
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.	2004	OP 540-543
2005-2006					
6.	B.P. Ladgaonkar S.K. Tilekar A.S. Vaingankar	Development of PC based system for Temperature controlling in Continuous Mode	National Symposia on Instrumentation (NSI-30) Cochin University of Science & Technology, Cochin, Kerala	2005	PP 271-276
2007-2008					
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
2009-2010					
11.	S.K. Tilekar B.P. Ladgaonkar A.S. Vaingankar	Development and implementation of an embedded system to measure initial permeability of magnetic materials	National Conference on Emerging Trends in Electronics and Computer Science, Padmashree Dr. D. Y. Patil Arts, Commerce & Science College, Pimpri, Pune-18	2010	OP CD
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
14.	P. A. Pote A.M. Kadam	ARM LPC 2378 Microcontroller based			PP CD

	S.K.Tilekar S. N. Patil B.P. Ladgaonkar	embedded design for temperature controllings			
	2010-2011				
15.	S.N.Patil S.K.Tilekar S.S. Shaikh A. M. Pawar B.P.Ladgaonkar	Data acquisition system for susceptibility measurement	UGC sponsored National Conference on Advanced Nanomaterials, Sensors & Instrumentation (NCANSI 2010-11), Organized by Dept. of Electronics, DBF dayanand College of Arts & Science, Solapur-02 MS	2011	PP 98
16.	P. A. Pote S.K. Tilekar S. N. Patil S. V. Nikam A. G. Pise B.P. Ladgaonkar	ARM LPC 2378 Based Embedded System Design for Controlling of Agricultural Parameters			PP 112
17.	P.V. Mane- Deshmukh G.S. Phule S.K. Tilekar S. N. Patil B.P. Ladgaonkar	Design & Development of Zigbee Module for Wireless Humidity Sensor Node			PP 114
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
	2011-2012				
21.	S. N. Mule, A. B. Bansode, S. K. Tilekar and B.P. Ladgaonkar	Designing Of An ALU Using VLSI Technology	National Seminar on Recent Advances in VLSI Design & Technology (NSAVDT-2011) Dept. of Electronics, Shankarrao Mohite Mahavidyalaya, Akluj MS	2011	PP 12
22.	S. N. Patil, S. K. Tilekar, B. P. Ladgaonkar	Study of Humidity Sensitive Properties of the ZnNiFe <sub>2</sub> O <sub>4</sub>			PP 119-123
23.	S. V. Nikam, R.B Mhoporkar, S. K.Tilekar and B.P. Ladgaonkar	An Embedded system for online measurement of pH and Temperature of boiler water			PP 27
24.	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			PP 137-141
25.	P. V. Mane- deshmukh, S. K. Tilekar & B.P. Ladgaonkar	Design And Development Of Zigbee Module Based Humidity Node For Wireless Sensor Network			PP 210-214
26.	S. N. Patil,	Design wireless Humidity			PP

	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
	2012-13				
33.	A. S. Powar, S. K. Tilekar, A. Tambe & B.P. Ladgaonkar	Implementation of Mixed Signal VLSI Technology to Design Programmable System on Chip to Measure Environmental Parameters of Polyhouse	National Conference on Emerging Technologies for Sustainable Developments organized by Department of Technology, Shivaji University, Kolhapur (NCET-2013)		PP 95
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		2012	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

		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, <b>S. K. Tilekar*</b> 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, <b>Pune (MS)</b> 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, Yashavantrao Chavan Institute of Science, <b>Satara (MS)</b> , sponsored by UGC, WRO, Pune,	2014	PP 14
45.	S. S. Pise*, S. N. Patil, <b>S. K. Tilekar*</b> 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 CapSence Technology for Linear Control Electric Motor	National Conference on Advances in Wireless Sensor Network and Its Applications (NCAWSNA-2014), organized by Department of Electronics, Shankarrao Mohite Mahavidyalaya, <b>Akluj</b>	2014	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			OP 18
48.	S. S. Pise*, P. N. Badhe, M. B. Pawar, C. B. Dhamal, S. N. Patil, <b>S. K. Tilekar</b> and B. P.	Development of AVR ATmega 16 based an Embedded System for LED Matrix Interfacing			OP 19

	Ladgaonkar				
49.	S. S. Shaikh*, S. C. Pathan, S. V. Chavan, P. V. Manedeshmukh, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Development Of Zigbee Technology Based System For Hotel Management		PP 38	
54.	A. S. Badhe*, A. R. Magar*, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Development of Microcontroller Based an Embedded System for Robotic Applications		PP 39	
55.	<b>S. K. Tilekar</b> , 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.	<b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Customizable System-on-Chip to Monitor Environmental of CO <sub>2</sub> Gas	UGC Sponsored National Level Conference on Recent Advances in Embedded Technology (NCRAET-2015) organized by Department of Electronics, Ramkrishna Paramhansa	2015	OP
59.	<b>S. K. Tilekar</b> , M. B.	Synthesis of MAS Based			OP

	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, <b>Osmanabad</b>		
60.	S. V. Chavan*, S. S. Shaikh, S. C. Pathan, <b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> , P. V. Mane-Deshmukh and B. P. Ladgaonkar	Development of an Embedded System for Smart Home		PP	
62.	S. N. Patil*, A. M. Pawar, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Wireless Sensor Network for Hotel Management		PP	
64.	S. S. Pise, P. N. Badhe, M. B. Pawar, S. N. Patil, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Development of AVR ATmega 16 based an Embedded System for LED Matrix Interfacing		PP	
65.	<b>S. K. Tilekar</b> *, 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, <b>Kolhapur</b>	OP 19	
66.	<b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Designing of Labview based GUI for realization of Wireless Sensor Network to Monitor Industrial Gas Leakages		2015	OP 73
68.	A. M. Pawar*, S. N. Patil, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	ARM LPC 2148 Based Wireless Sensor Network for Site Specific Data Management for Agriculture Application			OP 05

69.	S. S. Pise, V. Y. Inamdar, A. M. Pawar, S. N. Patil, <b>S. K. Tilekar</b> 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*, <b>S. K. Tilekar</b> 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, <b>Satara</b>		OP 06
71.	P. V. Mane-Deshmukh*, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	An Electronic Solution to Facilitate Wastewater Management for Smart City			OP 13
73.	A. N. Sathe*, S. S. Shinde, K. V. Adat, P. V. Mane-Deshmukh, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Development of AVR ATmega16 Based Pulse Oximeter for Measurement of SpO <sub>2</sub>			PP 27
74.	S. A. Yadav*, K. V. Adat, P. V. Mane-Deshmukh, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Development of Embedded System to Monitor Agriculture Appliances			PP 40
75.	S. Korake*, S. D. Mane, P. V. Mane-Deshmukh, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Real-Time Hazardous Gas Pipeline Monitoring and Controlling System			PP 45
77.	<b>S. K. Tilekar</b> *, 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.	<b>S. K. Tilekar</b> *, 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

	Deshmukh, <b>S. K. Tilekar</b> 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, <b>Amarawati, MS</b>	
80.	<b>S. K. Tilekar</b> , 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, <b>S.K. Tilekar</b> and B.P. Ladgaonkar	AVR ATmega16 based Pulse Oxymeter for measurement of SpO2		PP 24
82.	S. V. Chavan*, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	Wireless Sensor Network for Industrial Environmental Pollution Monitoring		PP 37
84.	<b>S. K. Tilekar</b> , 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, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> 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, <b>S. K. Tilekar</b> 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.	<b>S. K. Tilekar*</b> , 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, <b>Pandharpur MS</b>	2012	OP 29
2.	G. B. Bhagat, <b>S. K. Tilekar*</b> and S. A. Pawar	Designing of Microcontroller Based Temperature Control System For Poly-house			OP 45
3.	P. V. Mane-Deshmukh*, <b>S. K. Tilekar</b> 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*, <b>S. K. Tilekar</b> 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 <b>S. K. Tilekar</b>	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, <b>Pandharpur MS, OP (2012) 30</b>	2012	OP 30
6.	S. A. Yadav*, A. D. Mane*, R. S. More*, <b>S. K. Tilekar</b> 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, <b>Akluj, MS</b>	2015	PP
7.	P. S. Wagh*, U. M. Tomake*, V. D. Shinde*, B. P. Ladgaonkar and <b>S. K. Tilekar</b>	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 <b>S. K. Tilekar</b>	Statistical Study of Resources of E-waste			PP
9.	P. K. Lokhande*, S. L. Bhaskare*, A. H. Bankar*, <b>S. K. Tilekar</b> and B. P. Ladgaonkar	The Green Electronics to Conserve the Environment			PP
10.					

## 6.

## **7. Refresher Courses/ Orientation Programmes (04)**

<b>Sr. No.</b>	<b>Course</b>	<b>Organized by</b>	<b>Place</b>	<b>Period</b>	<b>Duration Days</b>
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)**

<b>Sr. No.</b>	<b>Title</b>	<b>Organized by</b>	<b>Place</b>	<b>Period</b>
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, Akluj	Akluj	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, Akluj	Akluj	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, Akluj	Akluj	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

	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, Akluj, in Association with Eduvance, Mumbai and Reanu Microelectronics, Pvt. Ltd., Pune	Akluj	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, Akluj	Akluj	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 <sup>nd</sup> 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 <sup>th</sup> - 11 <sup>th</sup> March

	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 <sup>st</sup> 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, Akluj. (MS) 413 101	Akluj.	21/10/2002 to 22/10/2002
3.	National Conference on Microwave and Optoelectronics (NCMO-04)	Department of Physics, Dr. Babasaheb Ambedkar Marathawada 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, Akluj (MS) 413101	Akluj	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	Pimpri, 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

	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, Akluj (MS) 413101	Akluj	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 Amravati.	Amravati	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, Yashavantrao 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, Akluj, in association with IEEE Solid State Circuit Society, India Chapter	Akluj	12 <sup>th</sup> -13 <sup>th</sup> 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 <sup>th</sup> -30 <sup>th</sup> 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 <sup>th</sup> -14 <sup>th</sup> February 2015
19.	National Conference on Emerging Trends in Electronics (NCETE-2016)	UGC-SAP, organized by Department of Electronics, Shivaji University, Kolhapur	Kolhapur	09 <sup>th</sup> 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

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, Akluj, MS UGC WRO, Pune Sponsored	Akluj	26/09/2015
3.	Webinar on IOT World	E & TE Department of SMSMP Institute of Technology & Research, Akluj	Akluj	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, <b>Kolhpur</b>	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, <b>Solapur-02 MS</b>	02/12/2012

3.	Two Day Workshop on Configurable System Design	Hands On Cypress PSoC5	Department of Electronics & Computer Science, RTM Nagpur University, <b>Nagpur</b>	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, <b>Kolhapur</b>	16/01/2014
5.	Engineering & Technology Ph.D. Course work 2014	Talk on Micro Electro Mechanical System (MEMS)	Dept of Technology, Shivaji University, <b>Kolhapur</b>	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, <b>Ashta</b> , 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, <b>Osmanabad</b>	29 <sup>th</sup> - 30 <sup>th</sup> January 2015
8.	UGC Sponsored Refresher Course in Scientific Computations	Talk on Architecture of PSoC	UGC-Human Resource Development Center, RTM Nagpur University, <b>Nagpur</b>	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, <b>Nagpur</b>	19/12/2015
10.	UGC-SAP Sponsored National Conference on Emerging Trends in Electronics (NCETE-2016)	Chair Person of the Technical Sessions (Oral Presentations)	Depratment of Electronics, Shivaji University, <b>Kolhapur</b>	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, <b>Pandharpur</b>	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, <b>Takali Dhokeshwar</b> , 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, <b>Nagpur</b>	21/05/2020

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 <sup>th</sup> -14 <sup>th</sup> 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.	Greenfingures College of Computer and Technology,	Assistant Professor	Subject Expert	23/07/2021	Yeshwant nagar-

	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.
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### **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**

<b>Sr No</b>	<b>Name of the Committee</b>	<b>Position held</b>	<b>Year</b>
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 <sup>th</sup> 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**

<b>Sr No</b>	<b>Name of the Committee</b>	<b>Position held</b>	<b>Year</b>
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, Akluj	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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>1</sup> 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 <sup>2</sup>	Solapur University, Solapur AVISHKAR-2012 University Level Research Festival organized by Sangola College, Sangola	22 <sup>nd</sup> -23 <sup>rd</sup> Dec. 2012
4.	First Prize in under Pure Science Category at Teacher Level <sup>3</sup>	Solapur University, Solapur AVISHKAR-2013 University Level Research Festival organized by Nagesh Karajgi Orchid College of Engg. & Tech., Solapur	01 <sup>st</sup> -02 <sup>nd</sup> Jan. 2014
5.	First Prize as a Best Research Paper <sup>4</sup> 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 <sup>5</sup> 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 <sup>6</sup> Presentation (OP)	1 <sup>st</sup> 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 <sup>7</sup> Presentation (OP)	1 <sup>st</sup> 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.			

<sup>1</sup> Data Acquisition System for Susceptibility Measurement.

<sup>2</sup> Development of Mixed Signal Based Embedded System for Temperature Compensated pH Measurement.

<sup>3</sup> Development of VLSI Technology Based Embedded PSoC for Measurement of TDS of Water.

<sup>4</sup> Synthesis of Mixed Signal VLSI Based SoC for Measurement of AC Electrical Conductivity.

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

<sup>6</sup> Synthesis of AMS Based System-on-Chip for Measurement of Physicochemical Parameters of Water.

<sup>7</sup> Designing of Wireless Sensor Network for Real-Time Patroling 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	Rema rk
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	<b>1<sup>st</sup> prize</b>
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	Doctorate	<b>1<sup>st</sup> prize</b>
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	Teacher	<b>2<sup>nd</sup> prize</b>
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	Doctorate	<b>1<sup>st</sup> prize</b>
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	Doctorate	<b>2<sup>nd</sup> prize</b>
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 Graduate	<b>2<sup>nd</sup> prize</b>
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	Teacher	<b>1<sup>st</sup> Prize</b>
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 Akluj, Vidnyan and Krishi Exhibition.
2. **Guide** for Departmental projects in Electronics at M.Sc. & B.Sc.

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