

**1. Personal Details:**

Full Name: <b>Dr. MURALIDHAR KISAN BHANARKAR</b>		
Designation	Associate Professor	
Address:		
Office:	Department of Electronics, Shivaji University, Kolhapur-416 004, Maharashtra, INDIA.	
Residence:	ARNAV, 1/6A, Yeshwant Nagar, Morewadi, Kolhapur.	
Phone:		
Office	0231-2609395, 9307	
Mobile	+0091-9765181865	
Residence	+0091-9421261865	
Email:	mkb_eln@unishivaji.ac.in; mkb.suk@gmail.com	

**2. Academic Details:**

Academic Degree's/Certificate	University/Board/Institute
M. Sc. (Physics with Electronics Specialization)	Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004
B. Sc. (Electronics, Physics, Mathematics)	Milind College of Science, Aurangabad, Maharashtra-431004
H.S.C. (Physics, Chemistry and Math's)	Aurangabad Board, MH
S.S.C. (Languages, Science, Social Science)	Nagpur Board, MH

**3. Research Degree:**

Research Degree	University	Year of award
Ph. D. (Molecular study of interaction of liquids using Time Domain and Frequency Domain reflectometry techniques)	Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, India	August-2007

**4. Orientation/Refresher Course/FDP:**

- Refresher Course** in Electronics, University Grants Commission, Academic Staff College, Goa University, Goa.  
(30.03.2009 to 19.04.2009)
- Orientation Course**, University Grants Commission, Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.  
(31.01.2015 to 28.02.2015)
- Faculty development/Skill development/Orientation/Workshop**, NSS, sponsored by Government of India, Shivaji University, Kolhapur.  
(02.11.2015 to 06.11.2015)
- Special Winter School**, UGC-MHRD, Savitribai Phule Pune University, Pune, Conducted by Department of Education, Shivaji University, Kolhapur.  
(03.07.2017 to 23.07.2017)
- Faculty Development Program**, under Pandit Madan Mohan Malavia National Mission on Teachers and Training (PMMNMTT), organized by Faculty Development Centre in Data Science and Cyber Security, Shivaji University, Kolhapur.  
(10.12. 2018 to 16.012.2018)

6. **Refresher Course in Environmental Science**, UGC-MHRD, Savitribai Phule Pune University, Pune, Conducted by Department of Environmental Science, Savitribai Phule Pune University, Pune.  
(09.12.2019 to 22.12.2019)
7. **COMSOL Multi-physics** online training, by COMSOL  
(03.02.2020 to 07.02.2020)
8. **Three days online Faculty Development Program** on Exploring research challenges and opportunities in Science and Technology, organized by Lokmanya Tilak College of Engineering, New Mumbai.  
(27.05.2020 to 29.05.2020)
9. **Faculty Development Program on Offline to Online Teaching**, organized by Satish Pradhan Dnyanasadhana College, Thane; YCMOU, Mumbai and Microsoft.  
(30.05.2020 to 03.06.2020)
10. **IEEE Two Week Online STTP** on " Cultivation of Engineering Tools Based on Competencies in Engineering community" organized by IEEE Bombay Section in association with Department of Electrical Engineering P. R. Pote College of Engineering & Management, Amravati.  
(31.05.2021 to 12.06.2021)
11. **Refresher Course** in Computational Sciences (Mathematics, Computer, Electronics, Physics, Chemistry)University Grants Commission, Academic Staff College, Goa University, Goa.  
(17.01.2024 to 01.02.2024)

**Training:**

1. **Hands-on Training** on MATLAB, Mathworks India Private Limited, Department of Technology, Shivaji University, Kolhapur.  
(07.07.2015 to 09.07.2015)
2. **Five days COMSOL Multiphysics Online Training Course** by COMSOL.  
(03.02.2020 to 07.02.2020)

**5. Research Areas:**

- Antenna Design-Smart antenna system, Patch antenna, Fractal antenna
- Wireless Sensor Networks: Biomedical and Agriculture application
- Molecular study of materials by FDR & TDR technique, Material Physics

**6. Teaching Experience:**

Organization	Duration	Designation	Role
Department of Electronics, (PG) Shivaji University,Kolhapur-416004	19 <sup>th</sup> March 2025 - till date	Associate Professor	Teaching and research
Department of Electronics, (PG) Shivaji University,Kolhapur-416004	3 <sup>rd</sup> Dec. 2010 - 18 <sup>nd</sup> March 2025	Assistant Professor	Teaching and research
Department of Electronics, (PG) Shivaji University,Kolhapur-416004	1 <sup>st</sup> April 2008 - 31 <sup>st</sup> March 2010	Lecturer	Teaching and research
Department of Electronics,(UG) Milind College of Science, Aurangabad	21 <sup>st</sup> Nov. 2003 - 31 <sup>st</sup> March 2008	Lecturer	Teaching and research

**7. Research Guidance:**

UG Programs	: 38 Projects (B.Sc. Students)
PG Programs	: Course up-gradation and Designed practical's for PG students
M.Sc. Projects	: 79+ Projects (M.Sc. Students)

M. Phil.	: 01-Submitted
Ph.D.	: 03-Awarded, 02-Submitted and 03-Working
Thesis Evaluated	: 07

***List of Research Scholar under Ph.D. Programme***

Sr.	Name of Students	Title of the research	Status: Year of Award/ Submission/working	
1.	Dr. Ganesh Waghmare	<i>Design of the tree shaped fractal antennas for wireless communications</i>	<b>Awarded</b>	April 2016
2.	Dr. Ayyaj Nadaf	<i>Development of web enabled control system for BRIX measurement</i>	<b>Awarded</b>	May 2018
3.	Dr. Sachin Kulkarni	<i>Development of FPGA based RISC processor for process control</i>	<b>Awarded</b>	Jan. 2020
4.	Mr. Swapnil Jadhav	<i>Smart microstrip patch antenna for wireless communications</i>	<b>Submitted</b>	Mar. 2025
5.	Miss Dhanashree Patil	<i>Design a and development of IRNSS Antenna</i>	<b>Submitted</b>	July 2024
5.	Mr. Sagar Godase	<i>Development of air pollution monitoring system by wireless sensor network</i>	<b>Working</b>	Jan. 2016
6.	Mrs. Nirmala Hande	<i>Design and development of fractal antenna using pascal's Triangle for wireless Communications</i>	<b>Working</b>	June 2021
7.	Mr. Ratnadeep Deshmukh	<i>Development of meander shape fractal antenna for wireless Communication</i>	<b>Working</b>	June 2021

***List of Research Scholar under M. Phil. Programme-***

8.	Mr. Rahul Padalkar	<i>Wireless sensor network-based health indication system</i>	<b>Submitted</b>	Jan. 2020
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**Examiner/ Referee for Ph.D.**

Dawangere University, Dawangere.

University of Mumbai, Mumbai.

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Shivaji University, Kolhapur.

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

- 8. Research Publications** :119 (Annexure I)
- 9. Conferences / Seminars / Workshops Attended** :54 (Annexure II)
- 10. Chair Session/Invited talk/Visiting lecture/Guest lecture** :78 (Annexure III)
- 11. Research Project** :02 (Completed), 02 (Sub.)

Sr.	Project Title	Funding Agency	Amount	Period	Status
1.	<i>Development of learning objective repository for distance education</i>	UGC-SUK	Rs. 11,000	2013-2014	Completed
2.	<i>Design and development of super microstrip antenna for wireless communication</i>	Research Strengthening Scheme-SUK	Rs. 2,65,000	2018-2020	Completed
3.	<i>Enhancing E-waste Awareness and Responsible Management Practices Among Internal and External</i>	RGSTC, Science and Technology	Rs. 10,00,000	2024-2025	Submitted

	<i>Stakeholder of Education</i>				
4.	<i>Enhancing Awareness of E-Waste Among Internal and External Stakeholder of Education</i>	Karo Sambhav, Pune, India.	Rs. 8,40,000	2024-2025	Submitted

### Departmental Research Project: UGC and DST

Sr. No.	Title of the Scheme	Amount	Member	Coordinators	Duration
1.	DST PURSE Phase I	42.32 Lac	Dr. M. K. Bhanarkar	Prof. M. D. Uplane Prof. P. N. Vasambekar	2011-15
2.	UGC SAP (DRS-1)	58.32 Lac	Dr. M. K. Bhanarkar	Prof. M. D. Uplane Prof. P. N. Vasambekar	2012-17
3.	DST PURSE Phase II	3.47 Lac	Dr. M. K. Bhanarkar	Prof. R.K. Kamat Prof. P. N. Vasambekar	2018-20

### 12. Editorial Board Member:

1. *European Journal of Advances in Engineering and Technology*, ISSN: 2394-658X
2. *Technical Advisory Board Member, International Journal of Engineering and Advance Technology*, ISSN:2249-8958.
3. *International Journal of Electrical and Electronics Engineering Research, Trans Stellar*, ISSN: 2278-943X.
4. *International Journal of Sensors and Sensor Networks, SciencePG*, ISSN:2329-1788
5. *Special Issue on Curriculum Reforms in Higher Education: Global Scenario, AMIERJ, Aarhat Publications, Volume-VII, Issue-XXIII, (May, 2018). ISSN: 2278-5655.*

### 13. Reviewer of the Journals:

1. *Academic Science*, ISSN:2347-8616, 2347-8527, 2348-117X.
2. *Horizon Research Publishing Corporation, USA.*
3. *Indian Journal of Science and Technology, India, Scopus Journal*, ISSN:0974-564.
4. *European Journal of Advances in Engineering and Technology*, ISSN: 2394-658X
5. *International Journal of Electronics/Letters, Taylor & Francis Group,ISSN:0020-7217(Print) 1362-3060 (Online)*
6. *Antennas and Propagation Magazine, IEEE.*
7. *Computers and Electronics in Agriculture, Elsevier.*

### 14. Research Paper Reviewed:

1. Horizon Publishing Corporation Ltd.
2. Easy Chair, ICIC-2015
3. European Journal of Advances in Engineering and Technology.
4. Indian Journal of Science and Technology, India, *Scopus Journal*.
5. IEEE 6<sup>th</sup> International Advance Computing Conference, IACC-2016.*IEEE*.
6. International Journal of Electronics/Letters, Taylor & Francis Group, *SCI Journal*.
7. Computers and Electronics in Agriculture, *Elsevier*.
8. Antennas and Propagation Magazine, *IEEE*.

### 15. Membership:

1. **BOS-Board of Studies (Hon'ble Vice-Chancellor Nominated) in Electronics Science, Electronics Engineering and Electronics Technology**, under the faculty of Science and Technology, Shivaji University, Kolhapur (2023-2028)

**2. BOS-Board of Studies (Hon'ble Vice-Chancellor Nominated)**  
in Electronics Science, Electronics Engineering and Electronics Technology,  
under the faculty of Science and Technology, Shivaji University, Kolhapur (2018-2023)

**3. BOS-Board of Studies (Hon'ble Vice-Chancellor Nominated)**  
in Electronics, Vivekanand College (*Autonomous*), Kolhapur  
under the faculty of Science and Technology, Shivaji University, Kolhapur (2021-2025)

**4. IEEE Senior Member (Elevated)**  
**Antenna and Propagation Society, Bombay Section, (since 2016)**  
IEEE Council on Electronic Design Automation, IEEE Council on RFID  
IEEE Nanotechnology Council, IEEE Sensor Council.

**5. ACM**  
**Association of Computing Machinery**  
<https://myacm.acm.org/dashboard.cfm?svc=services&CFID=24187311&CFTOKEN=23792276>

**6. ISPRS-SC**  
**International Society for Photogrammetry and Remote Sensing-Students**  
**Consortium.** <http://www.isprs-sc.org/members/profile/1594>

**7. Technical Committee Member**  
**IEEE 6<sup>th</sup>International Advance Computing Conference(IACC-2016)**, Bhimavaram,  
Andhra Pradesh, India (Feb. 27-28, 2016)

**8. Member-Secretary:**  
**Centre for e-waste management**, Shivaji University, Kolhapur.

**9. Member**  
**IEEE Bombay Section**, Educational Academic Activities-2021-2022.  
**IEEE Bombay Section**, Innovation and Entrepreneurship Society-2022-2023.

#### **Other Membership and Charges**

1. Member, *Avishkar-2012, State Level Project Competition*, Shivaji University, Kolhapur.
2. Member, *Alumni Meet-2011, Golden Jubilee Year*, Shivaji University, Kolhapur.
3. Member, *Building Infrastructure Committee*, Department of Electronics, Shivaji University.
4. Member, *Various Committees and Examinations*, Dept. of Electronics, Shivaji University.
5. Secretary, *DC meeting*, Department of Electronics, Shivaji University, Kolhapur. (2012-2016)
6. Placement Officer, *Department of Electronics*, Shivaji University, Kolhapur (2009-2017)
7. Educational and Industrial Tour in charge, *Milind College of Science, Aurangabad* (2004-08)
8. Educational and Industrial Tour in charge, *Department of Electronics*, Shivaji University, Kolhapur (2009-2014)
9. NSS-Co-Program Officer: *Milind College of Science, Aurangabad* (2006-2008)
10. EC-Member, *Shivaji University Post-Graduate Teacher Association-(SUPTA)*, Kolhapur (2015-2017)
11. NSS-Program Officer: *Department of Electronics*, Shivaji University, Kolhapur (2015-2017)
12. Chairman: *Examination, Dept. of Electronics*, Shivaji University, Kolhapur (Since 2016)
13. Member: *DRC, Department of Electronics*, Shivaji University, Kolhapur (2017-2022)
14. Member: *RAC, Department of Electronics*, Shivaji University, Kolhapur (2017-2019)
15. Coordinator: *M. Phil./ Ph.D. Examinations, Department of Electronics*, Shivaji University, Kolhapur (Since 2017)
16. Member: *LIC, Shivaji University*, Kolhapur
17. Member: *Central PG Admission-Online Entrance Examination, Subcommittee*, Shivaji University, Kolhapur (2018-2019)
18. Chairman: *Central PG Admission-Online Entrance Examination, Satara District College Computer Laboratory Inspection*, Shivaji University, Kolhapur (2018-2019)
19. Member: *M. Sc. Electronics Syllabus up gradation subcommittee, BOS-Electronics, Engineering and Technology*, under the faculty of Science and Technology, Shivaji University Kolhapur (2018-2019-2020)
20. Member, *Central Alumni Meet-2018*, Shivaji University, Kolhapur. (2018-2019)

21. *Chairman: Central PG Admission-Online Entrance Examination, Satara District College Computer Laboratory Inspection, Shivaji University, Kolhapur (2019-2020)*
22. *Coordinator, Alumni Meet-2020, Department of Electronics, Shivaji University, Kolhapur.*
23. *Chairman: Central PG Admission-Online Entrance Examination, Satara District College Computer Laboratory Inspection, Shivaji University, Kolhapur (2020-2021)*
24. *Coordinator, Alumni Meet-2022, Department of Electronics, Shivaji University, Kolhapur.*
25. *Coordinator, Alumni Felicitation-2023, Dept. of Electronics, Shivaji University, Kolhapur.*
26. *Member: DRC, Department of Electronics, Shivaji University, Kolhapur (2023-2025)*
27. *Member, Hon'ble Pro-Vice Chancellor nominated Subject Expert: RAC, Department of Electronics, Shivaji University, Kolhapur (2023-2025)*
28. *Member, Hon'ble Pro-Vice Chancellor nominated Subject Expert: RAC, Department of Electronics, Shivaji University, Kolhapur (2025-2027)*

## 16. Campus Interview Conducted:

### 1. **Coordinator: -**

*Campus for M.Sc., M. Tech. & MBA Students, under placement cell, Department of Electronics, Shivaji University, Kolhapur (March 26, 2013)*

### 2. **Coordinator: -**

*Campus for M.Sc., Electronics Students, under placement cell, Department of Electronics, Shivaji University, Kolhapur (May 05, 2014)*

### 3. **Coordinator: -**

*Campus for M.Sc., Electronics Students, under placement cell, Department of Electronics, Shivaji University, Kolhapur (May 08, 2015)*

### 4. **Coordinator: -**

*Mega Job-Expo-2016, under Central Placement Cell, Shivaji University Campus, Shivaji University, Kolhapur (January 30, 2016)*

## 17. Workshops/Camp Conducted:

### 1. **Coordinator**

*Two-day workshop on Pre-Service Examinations and Career Opportunities in Electronics, under the scheme of IAS training for SC/ST student, Department of Electronics, Shivaji University, Kolhapur (December-2011)*

### 2. **Coordinator**

*Two-day workshop on Career Guidance and Opportunities in Electronics, under the scheme of IAS training for SC/ST student, Department of Electronics, Shivaji University, Kolhapur (September-2012)*

### 3. **Coordinator**

*Workshop on Career Guidance, under placement cell, Department of Electronics, Shivaji University, Kolhapur (April-2014)*

### 4. **Member**

*5 Days Training and Workshop on 8051 Microcontroller for College Teacher, Department of Electronics, Shivaji University, Kolhapur (August-2014)*

### 5. **Coordinator**

*One Week NSS Camp on Digital Literacy, Waranage, Dist. Kolhapur (January 16-22, 2017)*

### 6. **Coordinator: Workshop for School Children**

1. Two Day Winter workshop on *Electronics* for School Children, 2013
2. Two Day Summer workshop on *LED Lighting* for School Children, 2014
3. Two Day Winter workshop on *Speech Amplifier* for School Children, 2014

### 7. **Coordinator, National Science Day Week Celebration 2024:**

**Coordinator, National Science Day Celebration 2024**, Shivaji University, Kolhapur. **Catalyzed and Supported by Science & Technology, Government of India and RGSTC, Government of Maharashtra. (26<sup>th</sup> February to 2<sup>nd</sup> March 2024)**

## 18. Conference/Webinar Conducted:

### 1. Director:-ICTE-2013

*Interdisciplinary National Conference on Information and Communications Technology, Department of Electronics and Education, Shivaji University, Kolhapur (March 4-5,2013).*

### 2. Treasurer: -LATEST-2014

*National Conference on Latest Advances, Trends in Electronic Science & Technology, Department of Electronics, Shivaji University, Kolhapur (Feb. 14-15, 2014).*

### 3. Joint Convener: ETECS-2015

*National Conference on Emerging Trends in Electronic and Computer Science, Department of Electronics, Shivaji University, Kolhapur (Feb. 13-14, 2015).*

### 4. Joint Convener: NCETE-2016

*National Conference on Emerging Trends in Electronic, Department of Electronics, Shivaji University, Kolhapur (Feb. 09, 2016).*

### 5. Coordinator: IICCRHE-2018

*International Interdisciplinary Conference on Curriculum Reforms in Higher Education: Global Scenario, Department of Electronics, Education, Computer Science and IQAC of the Shivaji University, Kolhapur (February 4-6, 2018).*

### 6. Co-Convener: NEPLL-2021

*National Multidisciplinary Conference on New Education Policy-2020 and Labour Law, RMBKS-PROTAN, New Delhi, India. (April 5, 2021).*

### 7. Member, IC-ISASTSS-2022

*International conference on integrated sustainability approaches in Sciences, Technology and Social Sciences: Current Research and Future Perspectives by IISSS, Nagpur (November 23-24, 2022)*

### 8. Coordinator

*5 Days online lecture series on **Green Electronics** under UGC STRIDE, (Feb. 10-14, 2021).*

### 9. Coordinator

*Webinar on **e-waste management**, under Centre for e-waste management, Shivaji University, Kolhapur, (March 25, 2021)*

### 10. Coordinator

*Webinar on **e-waste and sustainable development**, under Centre for e-waste management, Shivaji University, Kolhapur, (February 13-15, 2024)*

### 11. Member, ASTHIBPS-2024

*Transdisciplinary International conference on Advances in Science, Technology and Humanities Intersecting for a right and Prosperous Society by IISSS, Nagpur (November 30, 2024)*

## 19. Innovative

1. *Design and development of motor pump control system (wireless) to circulate water for Botanical garden, Department of Botany, Shivaji University, Kolhapur. (2010-2011)*

2. *Development of biometric based electronic voting machine (EVM), Department of Electronics, Shivaji University, Kolhapur (2019)*

## 20. Country Visited : **Shanghai**, China and **Hong Kong**.

## 21. Awards/ Recognition:

1. *Ranked* for research paper in *Pre-Science Congress Conference on Science and Technology for Human Development*, 102<sup>nd</sup> Indian Science Congress. Aurangabad Chapter, Indian Science Congress Association, India. (December, 2014)

2. Research paper selected as *Silver Paper* in **Electronics and Computer**, Techno-Societal 2016, under title *Fractal Antenna for GSM Application*, @ RUSA and BRNS Sponsored International Conference on Advanced Technologies for Societal Applications (2016)

3. Recognition of *Elsevier Reviewer* by Elsevier, Netherland. (August, 2018)

4. Elevated as *Senior Member* of IEEE (Since 2020)

5. Winner of *Global Teacher Award-2021*, AKS Education Awards (October,2021)

6. Certificate of *Appreciation*, **IEEE Bombay section signature conference**, (Nov. 18-20, 2021)
7. **IEEE Senior Member** with Good Standing (2023)
8. Recognition of *Certified Member* of **National TPO Club**  
(National Training and Placement Officers Club) (2023).
9. Certificate of *Appreciation*, **Taylor & Francis Group**, (March 14, 2024)

## 22. Patent:

1. Microstrip Patch Antenna, *UK design*, design number- 6331255 (December 2023)

Delivered 40+ lectures on  
**"Digital Literacy"**

**IEEE #** 92721340  
**Scopus ID:** - AU-ID33067692700  
**Researcher ID:** -<http://www.researcherid.com/rid/E-3607-2016>  
**ORCID ID:** - <http://orcid.org/0000-0002-1252-6806>  
**Vidwan-ID:** 105221

<b>List of Publications:</b>
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**Journals:** (SCI/Scopus/UGC-Care/Peer-Reviewed)

01. Bhanarkar M. K. and Navarkhele V. V.: *Dielectric relaxation study of N-methyl formamide with glycols using time domain reflectometry technique*, Physics and Chemistry of Liquids, International Journal of "Taylor and Francis Group" Volume:47, No. 3, Page:231-236, ISSN: 1029-0451, (June-2009) IF-0.517
02. Bhanarkar M. K. and Navarkhele V. V.: *Microwave dielectric response of binary mixture of N, N-dimethyl formamide with propylene glycol using TDR method*, Molecular Physics, International Journal of "Taylor and Francis Group" Volume:107, No. 17, Page:1823-1830, ISSN: 1362-3028, (October-2009) IF-1.528
03. Bhanarkar M. K. and Navarkhele V. V.: *High-frequency dielectric response of the binary mixture formamide-butylene glycol*, Physics and Chemistry of Liquids, International Journal of "Taylor and Francis Group" Volume: 48, No. 1, Page: 89-98, ISSN: 1029-0451, (January-2010) IF-0.517
04. Bhanarkar M. K. and Navarkhele V. V.: *Dielectric relaxation study of formamide-propylene glycol using time domain reflectometry technique*, Physics and Chemistry of Liquids, International Journal of "Taylor and Francis Group" Volume: 49, No. 4, Page: 550-559. ISSN: 1029-0451, (June-2011) IF-0.517
05. Bhanarkar M. K. and Navarkhele V. V.: *Temperature-dependent dielectric relaxation study of binary mixture using the time domain reflectometry method*, Physics and Chemistry of Liquids, International Journal of "Taylor and Francis Group" Volume: 50, No. 3, page: 378-388, ISSN: 1029-0451, (March-2012) IF-0.517
06. Waghmare G. B. and Bhanarkar M. K.: *Microstrip patch antenna for ism band applications*, International Journal on Recent and Innovation Trends in Computing and Communications, Volume: 2, Issue: 7, Page no. 1919-1921, ISSN: 2321-8169, (July-2014) SJIF-5.098
07. G. B. Waghmare, A. J. Nadaf, P. M. Korake and M. K. Bhanarkar: *Square spiral curve fractal antenna for multiband wireless communication*, International Journal of Advanced Research, Volume:3, Issue: 4, Page no. 743-748, ISSN: 2320-5407 (April-2015) IF-4.588
08. P. M. Korake and M. K. Bhanarkar: *Humidity and temperature measurement WSN node for grapes environmental condition monitoring*, Euro. J. Adv. Engg. Tech, Volume:2, Issue: 5, Page no. 72-76, ISSN: 2394-658X (May-2015)
09. Ayyaj I. Nadaf, S. V. Kulkarni, P. P. Shaha and M. K. Bhanarkar: *PLC Based Control System for Brix Measurement*, International Journal of Engineering Research and General Science Volume 3, Issue 5, Page no. 1062-1065, ISSN 2091-2730 (September-October, 2015)
10. Ayyaj I. Nadaf, S. V. Kulkarni, P. P. Shaha and M. K. Bhanarkar: *Review Paper on AJAX Comet and Websocket Uses for Web HMI/SCADA*, International Journal of Engineering Research and General Science Volume 3, Issue 5, page no. 1054-1061, ISSN 2091-2730 (September-October, 2015)
11. Ayyaj I. Nadaf, P. P. Shaha and M. K. Bhanarkar: *Advanced High-Speed Frequency to Voltage Converter for Industrial Controllers*, International Journal of Engineering Research and General Science Volume 3, Issue 5, page no. 347-352, ISSN 2091-2730 (September-October, 2015)
12. M. K. Bhanarkar and P. M. Korake: *Soil salinity and moisture measurement system for grapes field by wireless sensor network*, Cogent Engineering, "Taylor and Francis Group", Volume: 3, No. 1, Page no 1-9, ISSN:2331-1916, <http://tandfonline.com/doi/abs/10.1080/23311916.2016.1164021> (April-2016)
13. G. B. Waghmare, A. J. Nadaf, P. M. Korake and M. K. Bhanarkar: *Comparative analysis of FR4 and RT-duroid materials antenna for wireless application*, International Journal Series in Engineering Sciences, Volume: 2, No. 2, page no. 01-07, ISSN: 2455-3328 (April-2016) IF- 0.452
14. S. V. Kulkarni, A.I. Nadaf, P. P. Shaha and M. K. Bhanarkar: *Design of FPGA based 8 bit RISC processor*, International Journal of VLSI and Embedded System, Volume:7, Page no. 1691-1698, ISSN: 2249-6556, (June-2016) IF- 1.86
15. Sagar M Godase, Prakash M Korake, V V Navarkhele and M K Bhanarkar: *Review on WSN based outdoor air pollution monitoring system*, International Journal Series in Engineering Sciences, Archives of Electronics and Electrical Engineering, Vol. 2, No. 5, 01-13, ISSN: 2455-3328 (Oct.-2016) IF- 0.452

16. Ayyaz I Nadaf, Akhtar I Nadaf, Shaha P P and Bhanarkar M K: *State-based approach of sugar boiling process automation in batch vacuum PAN*, International Journal of Development Research, Volume: 06, No. 10, page no. 9693-9697, ISSN:2230-9926 (Oct.-2016)
17. Kulkarni, S. V., Shah, P. P. and Bhanarkar, M. K.: *Design of FPGA based 8 bit RISC processor with peripherals*, International Journal of Development Research, Volume: 07, No. 07, page no.13531-13535, ISSN:2230-9926 (July-2017)
18. AyyajNadaf, Akhtar Nadaf, P. P. Shah and M. K. Bhanarkar: *System identification of batch vacuum PAN for simulation*, Journal of Emerging Technologies and Innovative Research, Volume: 04, No. 12, page no.83-89, ISSN:2349-5162 (December-2017)
19. Kulkarni, S. V., Shah, P. P. and Bhanarkar, M. K.: *FPGA based RISC processor with inbuilt auto tuned PID controller for drum boiler feed water control*, Journal of Emerging Technologies and Innovative Research, Volume: 05, No. 05, page no.680-683, ISSN:2349-5162 (May-2018)
20. Kulkarni, S. V., Shah, P. P. and Bhanarkar, M. K.: *FPGA based RISC processor with inbuilt auto tuned PID controller for liquid level control system*, Journal of Emerging Technologies and Innovative Research, Volume: 05, No. 05, page no.742-745, ISSN:2349-5162 (May-2018)
21. Viyanna Cabral, Vidyanand Khandagale and Muralidhar Bhanarkar: *Contextual e-content development for content enrichment in higher education, Special Issue on Curriculum Reforms in Higher Education: Global Scenario*, AMIERJ, Aarhat Publications, Volume-VII, Issue-XXIII, page no. 125-129 (May, 2018). ISSN: 2278-5655.
22. C. K. Nanhey, M. K. Bhanarkar and B. M. Sargar, *Characterization of advanced spray pyrolysis technique based deposited titanium dioxide thin film @ 550°C temperature*, International journal of science and engineering investigations, vol.-9, issue 98, March 2020, page no. 01-03, ISSN:2251-8843.
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64. Swapnil Jadhav and M. K. Bhanarkar: *Advancements in Dielectric Materials: Implications for Microstrip Antenna Design, Categorizing Behavior, and Precision Measurement Techniques*, 2<sup>nd</sup>International Conference on "Emerging Trends and Challenges in Electronics and Computing for sustainable development, ETCESD-2024, Department of Electronics & Computer Science, Yashwantrao Chavan Institute of Science, Satara, INDIA (March 22-23, 2024)
65. Swapnil Jadhav and M. K. Bhanarkar: *Revolutionizing Antenna Technology: A Comprehensive Review on Microstrip Patch Antennas for Optimal Performance, Pioneering Research, and wireless communication*, 2<sup>nd</sup>International Conference on "Emerging Trends and Challenges in Electronics and Computing for sustainable development, ETCESD-2024, Department of Electronics & Computer Science, Yashwantrao Chavan Institute of Science, Satara, INDIA (March 22-23, 2024)
66. Charushila Bhanarkar, Smita Giri, Bhagyashri Lole, V. S. Khandagale and M. K. Bhanarkar, Sneha Sutar, Neha Bhilagude, Mayureshvar Jarag, Shubham Khot, Sargar Sanket; *Electronics Waste Management: A Case Study*, National Conference on "Sustainable development and scientific synergies for the future", Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Kolhapur. (February 21-22, 2025)

#### **e-paper:**

67. Paresh Mattikalli and M K Bhanarkar: *Development and monitoring of robo through cellular mobile*, (March-2012). <http://seminarprojects.com>

#### **Books:**

01. Bhanarkar M. K., Shaikh A. A. and Yannawar R. S.:  
Text book of "*Digital Electronics*"  
Taj Publication, Aurangabad, Maharashtra(2006) TN10.
02. Muralidhar Bhanarkar and Ganesh Waghmare:  
"*Fractal Antenna: Introduction, Mathematical Validation and Characterization*",  
LAP, LAMBERT, (2016), ISBN:978-3-659-89777-1

#### **Articles in book:**

03. Swapnil D. Jadhav, Muralidhar K. Bhanarkar, Gousmahammad R. Attar, Suhas N. Patil, Prabhakar S. Kadam: *Emerging Trends in Microstrip Patch Antenna Design*, Recent Trends in Materials for Advanced Technologies, Avishkar Publications, page no.263-302 (2022), ISBN:978-81-96470-7-0
04. S. D. Jadhav, M.K. Bhanarkar, Y. S. Salunkhe, M. N. Ghorpade, D.V. Bhoite: *Wireless Generations of Wireless Communication*, Futuristic Trends & Innovations in Computing Science, Avishkar Publications, page no.03-27 (2024) ISBN: 978-81-964704-5-6

#### **Other:**

05. Souvenir, "*Interdisciplinary National Conference on Information and Communications Technology*", Department of Electronics and Education, Shivaji University, Kolhapur (March 4-5, 2013)
06. Souvenir, "*National Conference on Emerging Trends in Electronics*", Department of Electronics, Shivaji University, Kolhapur (Feb 9, 2016)
07. e-Souvenir, "*International Interdisciplinary Conference on Curriculum Reforms in Higher Education: Global Scenario*", Department of Electronics, Education, Computer Science and IQAC of the Shivaji University, Kolhapur (February 4-6, 2018).

Conference/Seminars/Webinars/Workshop Attended /Paper Presented
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01. Presented paper, *National Seminar on Adversities and Opportunities*: Students, Milind College of Science, Aurangabad. (2003)
02. Participated and attended, *National Conference on Microwaves and Optoelectronics*, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (2004)
03. Participated and attended, *Workshop on Physics Practical*, Department of Physics, Maulana Azad College, Aurangabad. (2005)
04. Presented paper, *National Seminar on Recent Trends in Materials Science*, Department of Physics, School of Physical science; North Maharashtra University, Jalgaon. (2005)
05. Participated and attended, *State Level Ladies Conference*, Milind College of Science, Aurangabad. (Oct.-2006)
06. Presented paper, *International Conference on Microwaves and Optoelectronics*, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (Dec.-2007)
07. Presented paper, *National Conference on Current Trends in Materials Research for Advanced Technology*, Dept. of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (2007)
08. Presented paper, *International Conference on Nano-Materials and Applications*, Department of Physics, Shivaji University, Kolhapur. (Dec-2008)
09. Participated and attended, *National Seminar on Recent Research Trends in Chemistry*, Milind College of Science, Aurangabad. (Feb.-2008)
10. Participated and attended, *Workshop on DE-Notified and Nomadic Tribe*, Shivaji University, Kolhapur. (2009)
11. Participated and attended, *Workshop on MATLAB*, the Mathworks Ltd, India, LeMeridian, Pune (Nov.-2009)
12. Participated, *National Symposium on Antenna Propagation*, APSYM, CUSAT, Cochin, Kerala (Dec.-2010)
13. Participated, *National Conference on Pervasive Computing*, NCPC, Sinhgad College of Engineering, Pune, (April 9-10, 2010)
14. Presented paper, *National Seminar on Applied Materials*, Department of Physics, Shivaji University, Kolhapur-416004, (Mar.-2010)
15. Presented paper, *National Conference on Nano Technology and its Applications*, Vinayakrao Patil College, Vaijapur, Aurangabad (29-30<sup>th</sup> Dec. 2011)
16. Participated and attended, *National Seminar on Rights and Education Act*, Department of Education, Shivaji University, Kolhapur; (2011)
17. Participated and attended, *One-day Workshop on Annihilation of Caste*, Sangali (Aug. 21, 2011)
18. Presented paper, *Workshop on Challenges in Higher Education*, Shivaji University, Kolhapur (2012)
19. Participated and attended, *Seminar on Annihilation of Caste*, Shivaji University, Kolhapur (Mar. 5, 2012)
20. Participated, *Organizing National Science Day-2012*, Golden Jubilee Celebration, SUK, (Feb, 2012)
21. Participated and attended, *Workshop on Research writing, Ethics, plagiarism and Publishability*, under IQAC, Shivaji University, Kolhapur (July- 2012)
22. Presented paper, *2<sup>nd</sup> International Conference on Optical, Electronics and Electrical Materials-2012*, Changzhou University, Wuhan University, Nanyang Institute of Technology, Shanghai, China (Aug. 5-7, 2012)
23. Participated and attended, *13<sup>th</sup> National Symposium on Antenna Propagation* (APSYM), Department of Electronics, Cochin University of Science and Technology, Cochin, Kerala, (2012)
24. Participated, *Interdisciplinary National conference on Information and Communications Technology for Education* (ICTE), Department of Electronics and Education, Shivaji University, Kolhapur (Mar. 4-5, 2013)
25. Presented paper, *National Conference on Microwave Techniques and Applications* (NCMTA-2013), Maulana Azad College College, Aurangabad (Nov. 29-30, 2013)

26. Participated, *Workshop on Moodle Course Management System*, Department of Computer Science, Shivaji University, Kolhapur (Dec. 14, 2013)
27. Participated, *National Conference on Latest Advances, Trends in Electronic Science and Technology (LATEST)* Department of Electronics, Shivaji University, Kolhapur and Department of Electronics Engineering, KIT's College of Engineering, Kolhapur (Feb.14-15, 2014)
28. Participated and attended, *Workshop on MATLAB and Simulink for Engineering Education*, the Mathworks Ltd. India, Kolhapur (July 25, 2014)
29. Participated, *National Conference on Modern Approach for Green Electronics and Computing, MAGEC-2014*, Yeshwantrao Chavan Institute of Science, Satara, (Sept. 29-30, 2014)
30. Participated and attended, *Workshop on COMSOL multi-physics modeling*, COMSOL multi Physics Pvt. Ltd. Coordinated by Department of Technology, Shivaji University, Kolhapur (Oct. 21, 2014)
31. Participated and attended: *Pre-Science Congress Conference on Science and Technology for Human Development* on the occasion of 102<sup>nd</sup> Indian Science Congress, organized by Indian Science Congress Association, Aurangabad Chapter, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (30<sup>th</sup> -31<sup>st</sup> Dec. 2014)
32. Participated and attended, *Seminar on Engineering Education and Research*, National Instruments(NI) India, Belgaum (Sept. 2, 2015)
33. Participated, *National Conference on Emerging Trends in Electronics* (NCETE) Department of Electronics, Shivaji University, Kolhapur (Feb.9, 2016)
34. Participated, *National Conference on Recent Advances in Chemical and Biological Science*, K. M. Agrawal College of Arts, Commerce and Science, Kalyan, Thane (Feb. 26-27, 2016)
35. Participated, *Software Training Workshop on NSS Web Portal-Avyukta*, Department of NSS, Shivaji University, Kolhapur (July 2, 2016)
36. Participated, *SRPD Workshop, Online Examination*, Vivekanand College, Kolhapur, (Sep. 2016)
37. Participated, workshop on *Digital India*, Ministry of Government of India, Electronics and Information technology, Shivaji University, Kolhapur (Sept. 21, 2016)
38. Participated, workshop on *Maharashtra Public University Act 2016*, Shivaji University Post Graduate Teacher Association (SUPTA), Kolhapur, (Jan. 6, 2017)
39. Conducted / Paper Presented in *International Interdisciplinary Conference on Curriculum Reforms in Higher Education: Global Scenario*, Department of Electronics, Education, Computer Science and IQAC of the Shivaji University, Kolhapur (February 4-6, 2018).
40. Participated, workshop on *UGC-SWAYAM-MOOCs*, organized by Shivaji University, Kolhapur (May 22, 2018).
41. Participated, workshop on *Student-Centric Teaching-Learning Methods*, Department of Education, Shivaji University, Kolhapur (June 22, 2018).
42. Participated, workshop on *Nai Talim, Experiential Learning*, organized by Mahatma Gandhi National Council of Rural Education, Government of India and Department of Education, Shivaji University, Kolhapur (September 25, 2018).
43. Participated, workshop on *Constitutional Policy of Reservation*, organized by Shivaji University, Kolhapur (January 13, 2019).
44. Paper Presented in *National conference on emerging trends in chemical and material sciences*, Department of Chemistry, Shivaji University, Kolhapur-416004, India (March 6-7, 2020)
45. Participated in *IEEE and Keysight Webinar series on modern antennas for wireless systems*, organized by Shri Ramdeobaba College of Engineering and Management, Nagpur, India (May 22-24, 2020)
46. Participated in *National webinar on e-content creation and e-learning through MOOCs*, organized by Barr. Balasaheb Khardekar Knowledge Resource Centre, Shivaji university, Kolhapur-416004, India (May 29-30, 2020)
47. Participated in *Webinar on Role of online teaching pedagogy and ICT tools*, organized by Lokmanya Tilak College of Engineering, New Mumbai, India (May 30, 2020)
48. Participated in *International Conference on "Emerging Trends and Challenges in Electronics and Computing, ETEC-2021*, Department of Electronics Yashwantrao Chavan Institute of Science, Satara, INDIA (March, 4-6, 2021)
49. Paper presented in *6<sup>th</sup> International Conference for Convergence in Technology - 6<sup>th</sup> I2CT 2021*, organized by IEEE Bombay Section, India. (April 2-4, 2021)

50. Participated in *Panel Discussion-Global Teacher Conclave on Reimagining Education in a post-COVID World*. organized by AKS Education Awards, (October 23, 2021)
51. Delegate in *GTA Award Winners Reconnect-2022*, organized by AKS Education Awards, (April,2022)
52. Paper presented in *International conference on integrated sustainability approaches in Sciences, Technology and Social Sciences: Current Research and Future Perspectives* by IISSS Nagpur. (November 23-24, 2022)
53. Paper presented in *2<sup>nd</sup> International Conference on “Emerging Trends and Challenges in Electronics and Computing for sustainable development, ETCESD-2024*, Department of Electronics & Computer Science, Yashwantrao Chavan Institute of Science, Satara, INDIA (March 22-23, 2024)
54. Paper presented in Transdisciplinary International conference on *Advances in Science, Technology and Humanities Intersecting for a right and Prosperous Society* by IISSS. (November 30, 2024)
55. Presented in National Conference on "*Sustainable development and scientific synergies for the future*", Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Kolhapur. (February 21-22, 2025)

Guest Lecture/Visiting Lecture/Chair Session/Invited Talk/Resource Person
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01. Guest lecture on *Fiber Optics* - UGC NET/SET workshop, Department of Electronics, Shivaji University, Kolhapur, (2009)
02. Resource person for *Development of Module*- UGC NET/SET workshop, Department of Education Shivaji University, Kolhapur, (2009)
03. Guest lecture on *Conservative and Non-Conservative Energy*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2010)
04. Guest lecture on *Cyber Act*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2010)
05. Guest lecture on *Wind Energy*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2011)
06. Guest lecture on *Mobile Technology*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2011)
07. Invited talk on *Nano Electronics*- National Conference on Nano Frontier and application, Vinayakrao Mahavidhyalaya, Vaijapur, Aurangabad, Maharashtra, (2011)
08. Guest lecture on *Optoelectronics*, UGC NET/SET workshop, Department of Electronics, Shivaji University, Kolhapur, (Feb. 28, 2011)
09. Visiting faculty for *Microwave technique course*, B. Tech. Course of Electronics & Communication Technology, DOT, Shivaji University, Kolhapur, (2011)
10. Visiting faculty for *Digital Electronics*, M. Sc./MCA. Course, Department of Computer Science, Shivaji University, Kolhapur, (2011)
11. Resource person for *Operating System*- UGC coaching scheme for SC/ST, Department of Education Shivaji University, Kolhapur, (2012)
12. Guest lecture on *Digital Communications*-M. Phil./Ph.D. course work, Department of Electronics, Shivaji University, Kolhapur, (2013)
13. Guest lecture on *Wireless and communication technology*- Celebration of National Science Day, S.S. Arts College & T.P. Science Institute, Sankeshwar, Karnataka, (February 28, 2013)
14. Chair session V- *National Conference on ICTE 2013*, Department of Education & Electronics, Shivaji University, Kolhapur, (2013)
15. Chair session VII- *National Conference on ICTE 2013*, Department of Education & Electronics, Shivaji University, Kolhapur, (2013)
16. Chair session - *National Conference on Microwave Techniques and Applications* (NCMTA), Maulana Azad College, Aurangabad (Nov. 29-30, 2013)
17. Guest lecture on *Displays*- Remedial Coaching under UGC scheme, Department of Electronics, Shivaji University, Kolhapur, (March, 2014)
18. Guest lecture on *Optical Electronics*- NET/SET Coaching under UGC scheme, Department of Electronics, Shivaji University, Kolhapur, (January, 2014)
19. Guest Lecture on *Research Methodology*- Ph.D. course work of Engineering and Technology & Pharmacy, DOT, Shivaji University, Kolhapur, (July 7, 2014)
20. Chair Session- *National Conference on Modern Approach for Green Electronics and Computing*, MAGEC-2014, Yeshwantrao Chavan Institute of Science, Satara, (September 29-30, 2014)
21. Guest lecture on *Optical Fiber and Device* - NET/SET Coaching under UGC scheme, Department of Electronics, Shivaji University, Kolhapur, (January 3, 2015)
22. Guest lecture on *Mobile Communications* - Remedial Coaching UGC scheme, Department of Electronics, Shivaji University, Kolhapur, (March, 2015)
23. Guest lecture on *Wireless Networking* - M.Phil./Pre-Ph.D. Course work, Department of Electronics, Shivaji University, Kolhapur, (May 2, 2015)
24. Guest lecture on *Optical Fiber Communications* - M.Phil./Pre-Ph.D. Course work, Department of Electronics, Shivaji University, Kolhapur, (May 13, 2015)
25. Guest lecture on *Emerging Communication Technology* on eve of Teachers Day celebration, Kasturba Walchand College, Sangali, (September 5, 2015)
26. Guest lecture on *Science and Technology: Opportunities* - B.A. B.Ed., Mahavir College, Kolhapur.

(Feb. 02, 2016)

27. Chair Session, *National Conference on Emerging Trends in Electronics* (NCETE) Department of Electronics, Shivaji University, Kolhapur (Feb.9, 2016)
28. Guest lecture on *Optoelectronics* - Remedial Coaching UGC scheme, Department of Electronics, Shivaji University, Kolhapur, (Feb., 2016)
29. Resource Person, Antenna Design and Simulation, *ISTE Short Term Training Programm on Recent Trends in Advanced Communication and Embedded System*, Bharati Vidyapeeth's College of Engineering, Kolhapur (Dec. 26, 2016).
30. Guest lecture on *Optical Sources* - Remedial Coaching UGC scheme, Department of Electronics, Shivaji University, Kolhapur, (March, 2017)
31. Guest lecture on *Optical Sources and Detector* - UGC NET Coaching scheme, Department of Electronics, Shivaji University, Kolhapur, (Feb., 2017)
32. Examiner, *Group Discussion Competition*, KIT College of Engineering, Kolhapur (Jan. 01, 2017)
33. Examiner, *Kolhapur City Science Exhibition-2017*, M. S. Patel School, Kolhapur (Dec.13-14, 2017)
34. Chair Session, *International Interdisciplinary Conference on Curriculum Reforms in Higher Education: Global Scenario*, Department of Electronics, Education, Computer Science and IQAC of the Shivaji University, Kolhapur (February 4-6, 2018).
35. Chief Guest, *National Science Day celebration*, Little Flower English Medium School, Kolhapur. (Feb.28, 2018)
36. Guest Lecture, *Digital Literacy*, Little Flower English Medium School, Kolhapur. (April, 2018)
37. Guest lecture on *Wireless Sensor Network* - Value Added Course, Department of Physics, Shivaji University, Kolhapur, (July 11, 2018)
38. Guest Lecture, *Instrumentation in Physical Sciences*, under value added course, Organized by Department of Physics, Shivaji University, Kolhapur, (July 11, 2018)
39. Chief Guest, Two-day Workshop on *Antenna and Meta-materials*- Department of Technology, Shivaji University, Kolhapur, (July 16-17, 2018)
40. Resource Person, *Value Added Course on Disruptive Technologies for Higher Education*, Organized by Department of Education, Shivaji University, Kolhapur, (July 28, 2018)
41. Resource Person, *Digital Literacy*, under Induction Programme, Organized by Department of Education, Shivaji University, Kolhapur, (October 11, 2018)
42. Resource Person, *MOOC's*, Induction Programme under Pandit Madan Mohan Malavia National Mission on Teachers and Training (PMMMNTT), Organized by Rajaram College, Kolhapur, (December 03, 2018)
43. Resource Person, *Digital Literacy and Data Science*, Refresher Course under Pandit Madan Mohan Malavia National Mission on Teachers and Training (PMMMNTT), Organized by Department of Education, Shivaji University, Kolhapur, (December 21, 2018)
44. Expert/Judge, *AVISHKAR*, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. (January 02-03, 2019)
45. Resource Person, *Workshop on Revised Syllabus-B.Sc. II Electronics*, Yashwantrao Chavan College of Science, Karad, Satara. (August 21, 2019)
46. Expert/Judge, *AVISHKAR*, Shivaji University, Kolhapur. (January 08, 2020)
47. Examiner, Poster Presentation Session, *National conference on emerging trends in chemical and material sciences*, Department of Chemistry, Shivaji University, Kolhapur-416004, INDIA (March, 6-7, 2020)
48. Guest Lecture, *Career and Opportunities for UG and PG students*, Shri Shivaji Science College, Chikhali, Buldhana. (July, 2020)
49. Expert, *Mid-term Evaluation of the project under Research Strengthening scheme*, Department of Education Shivaji University, Kolhapur-416004, INDIA (07 Jan.,2021)
50. Guest Lecture, *Pre-PhD. Course work*, Department of electronics, Shivaji University, Kolhapur. (Jan/Feb, 2021)
51. Expert, *Mid-term Evaluation of the project under Research Strengthening scheme*, Department of Distance Education Shivaji University, Kolhapur-416004, INDIA (16 Jan.,2021)
52. Examiner, Poster Presentation Session, *International Conference on "Emerging Trends and Challenges in Electronics and Computing, ETEC-2021*, Department of Electronics Yashwantrao Chavan Institute of Science, Satara, INDIA (March, 4-6, 2021)

53. Resource Person, UGC STRIDE guest lecture on *Reference Manager Tools*, Organized by Department of Education, Shivaji University, Kolhapur, (March, 2022)
54. Resource Person, guest lecture on *Reference Manager Tools*, Organized by Centre for Distance Education, Shivaji University, Kolhapur, (March, 2022)
55. Resource Person, *Human Rights and Dignity*, Human Rights Summit, Organized by Rise to Greater Heights Networks, (April 1, 2022)
56. Resource Person, UGC STRIDE guest lecture on *Solar Energy for Agriculture Applications*, Organized by Vinayakrao Patil Mahavidyalaya, Vaijapur, Aurangabad (April, 2022)
57. Radio Talk, on *e-waste @ Radio Talk Show*, Global Summit 2022, India: Harbinger of World Peace, Abu, Rajasthan, sponsored by ministry of culture, Govt. of India.( September, 2022)
58. Video Talk, on *e-waste and sustainable technology @ Godlywood studio*, Abu, Rajasthan, India. Global Summit 2022, India: Harbinger of World Peace, Abu, Rajasthan, sponsored by ministry of culture, Govt. of India.( September, 2022)
59. Resource Person, *Research Story Telling*, 2<sup>nd</sup> International story telling conference-2022, organized by IIU, (November, 2022)
60. Guest Speaker, online talk on *11<sup>th</sup> GSUA consultative forum*, organized by *GSUA-2023 summit* (December, 2022)
61. Guest Speaker, online talk on *E-Waste and Global Warming*, economic policy research summit 2023 organized by School of Economic Policy Studies, Nepal (February 24-25, 2023)
62. Moderator, *Our Earth Our Community*, GELTA-Global environmental leadership training association held by Global education network (March 17, 2023)
63. Resource Person, *Artificial Intelligent*, workshop under Lead College Scheme of Shivaji University, Kolhapur, organized by D. D. Shinde Sarkar College, Kolhapur(March 18, 2023)
64. Guest Speaker and Demonstrator, interactive webinar, on *World Water Day*, organized by 21DIGISKILLZ Academy (March 22, 2023)
65. Resource Person, *Research Story Telling*, 3<sup>rd</sup> SDCA International Virtual Multidisciplinary Research Conference 2023, organized by St. Dominic College of Asia, Philippine (April 18, 2023)
66. Executive panelist, Round table exclusive *Sharing is Caring*, Edu-Talk Show, (April 27, 2023)
67. Resource Person, *Reference Management tools*, Ph.D. course work in Education and Physical Education, organized by Department of Education(May 19, 2023)
68. Participation, *TECH-A-THON* interacting Webinar on *The Emerging Technologies across all learning areas*, by 21DIGISKILLZ Academy, (May 29, 2023)
69. Member, Evaluation Committee, *13<sup>th</sup> India- Japan Science and Technology Conclave (ICAFST-2023)* organized by International Affair Cell, Shivaji University, Kolhapur and Indian JSPS Alumni Association. (September 8-9, 2023)
70. Radio Talk, on *e-waste* management @ Air India Radio, Mumbai, (Feb. 15, 2024)
71. Resource Person, *NEP-2020: ICT*, FDP on NEP 2020, UGC-MHRD, Savitribai Phule Pune University, Pune, (March 15, 2024)
72. Chief Guest, *2<sup>nd</sup> International Conference on “Emerging Trends and Challenges in Electronics and Computing for sustainable development, ETCESD-2024*, Department of Electronics & Computer Science, Yashavantrao Chavan Institute of Science, Satara, INDIA (March 22-23, 2024)
73. Session Chair, *2<sup>nd</sup> International Conference on “Emerging Trends and Challenges in Electronics and Computing for sustainable development, ETCESD-2024*, Department of Electronics & Computer Science, Yashavantrao Chavan Institute of Science, Satara, INDIA (March 22-23, 2024)
74. Resource Person, *Reference Management tools*, Ph.D. course work in Education, organized by Department of Education(May 28, 2024)
75. Resource Person, *NEP-2020: ICT, FDP on NEP 2020, UGC-MHRD*, Savitribai Phule Pune University, Pune, (July 5, 2024)
76. Resource Person, *Sharing is Caring*, Edu-Talk-Show 2024, by 21DIGISKILLZ Academy, (July 17, 2024)
77. Resource Person, *Inclusive Education Technology and Students Diversity*, STFDP, MMTTC-HRDC, Savitribai Phule Pune University, Pune, (August 28, 2024)
78. Radio Talk, on *Space Garbage @ Radio Madhuban*, Shantivan Abu, Rajasthan, India. (Sept. 26, 2024)
79. Resource Person, *Input and Output Devices*, ICT workshop, organized by Department of Education(Oct. 10, 2024)

80. Panel Discussion, *Universal Practices of Blended Learning*, organized by Department of Education (Jan 24, 2025)
81. Resource Person, *AI-Project Based Learning* by 21DIGISKILLZ Academy, (Feb. 22, 2025)
82. Resource Person, *Higher Education* by AWTE, (Feb. 22, 2025)

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