

**1. Personal Details:**

<b>Full Name: Dr. MURALIDHAR KISAN BHANARKAR</b>		
Designation	Assistant Professor	
Address:	Department of Electronics, Shivaji University, Kolhapur-416 004, Maharashtra, INDIA.	
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**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/Training:**

1. **Refresher Course** in Electronics, University Grants Commission, Academic Staff College, Goa University, Goa.  
(30.03.2009 to 19.04.2009)
2. **Orientation Course**, University Grants Commission, Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.  
(31.01.2015 to 28.02.2015)
3. **Hands-on Training** on MATLAB, Mathworks India Pvt. Ltd., Department of Technology, Shivaji University, Kolhapur.  
(07.07.2015 to 09.07.2015)
4. **Faculty development/Skill development/Orientation/Workshop**, NSS, sponsored by Government of India, Shivaji University, Kolhapur.  
(02.11.2015 to 06.11.2015)
5. **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)
6. **Faculty Development Program**, under Pandit Madan Mohan Malavia National Mission on Teachers and Training (PMMMNTT), organized by Faculty Development Centre in Data

Science and Cyber Security, Shivaji University, Kolhapur.  
(10.12.2018 to 16.12.2018)

7. **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)

**5. Research Areas:**

- Antenna Design-Smart antenna system, Patch antenna, Fractal antenna
- Wireless Sensor Networks
- Biomedical application and
- 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	1 <sup>st</sup> April 2008- till date	Assistant Professor	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	: Designed experiments for PG students
M.Sc. Projects	: 60+ Projects (M.Sc. Students)
M.Phil.	: 01-Submitted
Ph.D.	: 03-Awarded, 01-Submitted and 02-Working

**List of Research Scholar under Ph.D. Programm:-**

Sr.	Name of Students	Title of the research	Status	Year of Award/ Submission/ Registration
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. Prakash Korake	<i>Development of integrated sensor network for grapes quality monitoring</i>	<b>Submitted</b>	June 2016
5.	Mr. Sagar Godase	<i>Development of air pollution monitoring system by wireless sensor network</i>	<b>Working</b>	Jan. 2016
6.	Mr. Swapnil Jadhav	<i>Smart microstrip patch antenna for wireless communications</i>	<b>Working</b>	Jan. 2019

**List of Research Scholar under M.Phil. Programm:-**

7.	Mr. Rahul Padalkar	<i>Wireless sensor network based health indication system</i>	<b>Submitted</b>	Jan. 2020
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- 8. Research Publications: -** 85<sup>+</sup>(Annexure I)
- 9. Conferences / Seminars / Workshops Attended: -** 43 (Annexure II)
- 10. Chair Session/Invited talk/Visiting lecture/Guest lecture:-** 45 (Annexure III)
- 11. Research Project Work: -** (Completed-01)  
(Ongoing-01)  
(Submitted-01)

Sr.	Project Title	Funding Agency	Amount	Period	Status
1.	Development of Learning Objective Repository for Distance Education	UGC-SUK	Rs. 11,000	2013-2014	Completed
2.	Design and development of super microstrip antenna for wireless communication	Research Strengthening Scheme-SUK	Rs. 2,65,000	2018-2020	Working
3.	A suggestive model for enhancing generic graduate qualities studying SWAYAM and MOOC's	STRIDE	Rs. 19,50,000	2019-2022	Submitted

**12. Editorial Board Member: -**

- 1. International Journal of Recent and Innovative Trends in Computing and Communications, Auricle Technology, ISSN:2321-8169.*
- 2. International Journal of Advances in Engg.&Scientific Research,ARSEAM, ISSN: 2349-3593*
- 3. European Journal of Advances in Engineering and Technology, ISSN: 2394-658X*
- 4. Technical Advisory board Member, International Journal of Engineering and Advance Technology, ISSN:2249-8958.*
- 5. International Journal of Electrical and Electronics Engineering Research, Trans Stellar, ISSN: 2278-943X.*
- 6. International Journal of Sensors and Sensor Networks, SciencePG, ISSN:2329-1788*
- 7. 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 Corp., 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. Easy Chair and EDAS*
- 7. Antennas and Propagation Magazine, IEEE.*
- 8. 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 6th International Advance Computing Conference, IACC-2016.
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

**Electronics Science, Electronics Engineering and Electronics Technology,**  
under the faculty of Science and Technology, Shivaji University, Kolhapur (2018-2022)

##### 2. IEEE

##### Antenna and Propagation Society, Bombay Section, 2016

IEEE Council on Electronic Design Automation, IEEE Council on RFID  
IEEE Nanotechnology Council, IEEE Sensor Council.

##### 3. ACM

##### Association of Computing Machinery

<https://myacm.acm.org/dashboard.cfm?svc=services&CFID=24187311&CFTOKEN=23792276>

##### 4. ISPRS-SC

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

##### 5. Technical Committee Member

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

#### 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), Shivaji University 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: *Department Research Committee (DRC), Department of Electronics, Shivaji University, Kolhapur (2017-2018-2019-2020)*

14. Member: *Research Advisory Committee (RAC), Department of Electronics, Shivaji University, Kolhapur (2017-2018-2019)*
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 (2018-2019-2020)*
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. Coordinator, *Alumni Meet-2020, Department of Electronics, Shivaji University, Kolhapur. (2019-2020)*

## **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, Varanage, Dist. Kolhapur (January 16-22, 2017)*

**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

**18. Conference 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: ICCRHE-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).*

**19. Country Visited: -Shanghai, CHINA (2012)**

**20. Innovative**

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

**21. Awards**

1. **Third Rank** awarded 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.
3. **Recognition of Elsevier Reviewer** by Elsevier, Netherland. (August, 2018)

Delivered 40+ lectures on  
**"Digital Literacy"**  
all over Maharashtra

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

## List of Publications:

**Journals:** (SCI/Scopus/Peer-Reviewed)

1. 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
2. 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
3. Bhanarkar M. K. and Navarkhele V. V.: *High-frequency dielectric response of the binary mixture formamide-butylenes 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
4. 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
5. 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
6. 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)
7. 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)
8. 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)
9. 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, 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, 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, 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, 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, 1-13, 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.Ayyaj Nadaf, 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.



**Proceedings:**(International/National Symposium/Conferences/Seminars)

1. Bhanarkar M. K. and Navarkhele V. V.:*Dielectric relaxation study of formamide with glycols using TDR technique*,Frontiers of Microwaves and Optoelectronics, Anamaya Publishers, New Delhi, Page: 662-669, ISBN 978-81-89927-19-6, (2007)
2. Bhanarkar M. K., Nadaf A. J., Korake P. M., Wahgmare G. B. and Navarkhele V. V.:*Rectangular microstrip patch antenna for wireless sensor networks*, Proceeding of Symposium on Antenna Propagation, APSYM-2012, CUSAT, Cochin, Kerala, ISBN: 978-93-80095-40-0, (December-2012)
3. Korake P. M., Wahgmare G. B., Nadaf A. J. and Bhanarkar M. K.:*Review: RFID sensor technology recent trends and new challenges*, Proceeding of Symposium on Antenna Propagation, APSYM-2012, CUSAT, Cochin, Kerala, ISBN: 978-93-80095-40-0, (December-2012).
4. M. K. Bhanarkar, A .A. Shaikh and V. V. Navarkhele: *Dielectric relaxation study of binary mixture of FMD with BLG by time domain microwave technique*, *Proceeding of National Conference on Microwave techniques and Applications*, (NCMTA-2013), Maulana Azad College Aurangabad,page-124, ISBN-978-93-83587-03-2, (29-30 November-2013)
5. M. K. Bhanarkar, A .A. Shaikh and V. V. Navarkhele: *Low gain microstrip patch antenna for wireless applications*, *Proceeding of National Conference on Microwave techniques and Applications*, (NCMTA-2013), Maulana Azad College Aurangabad, page-190, ISBN-978-93-83587-03-2, (29-30 November-2013)
6. Wahgmare G. B., Korake P. M., Bhanarkar M. K, Ramshetty R. S. and Navarkhele V. V.: *Optimization of patch antenna for biomedical application*, *Research Express: Proceeding of National Conference on Medical Applications of Pulse Laser and its Diagnostic Techniques (MAPLDT-2015)* Adarsh Mahavidyalaya, Omerga, India. ISBN: 978-81-930536-3-8 (27-28 January-2015)
7. Wahgmare G. B., Korake P. M., Bhanarkar M. K: *An overview of fractal antennas*, *International conference on Functional Materials at nano scale concerns and challanges*, Karmaveer Bhaurao Patil Mahavidhyalaya, Pandharpur . (9-11<sup>th</sup>March-2015)
8. Wahgmare G. B., Korake P. M., Bhanarkar M. K.: *Design of wireless sensor network system for raisins maling monitoring*,, *International conference on Functional Materials at nano scale concerns and challanges*, Karmaveer Bhaurao Patil Mahavidhyalaya, Pandharpur . (9-11<sup>th</sup>March-2015)
9. Sagar M. Godase, Rahul C. Padalkar and M. K. Bhanarkar: *Implementation of IoT based indoor air quality monitoring system*,*Current Global Reviewer: Proceeding of International Conference on Applied Science*, Shri Kumarswami Mahavidyaklaya, Ausa, Latur, India. ISSN: 2319-8648(Dec., 26-27, 2017)

**Abstracts:** (International/National: Symposium/Conferences/Seminars)

1. Bhanarkar M. K. and Lone B. G.: *Adversities and opportunities: sc/st students*, National Seminar on Adversities and Opportunities: Students, Milind College of Science, Aurangabad, (2003).
2. Bhanarkar M. K., Shaikh A. A. and Navarkhele V. V.: *Dielectric studies of interaction between formamide and ethylene glycol using FDR technology*, National Seminar on Recent Trends in Material Science, School of Physical Science; North Maharashtra University; Jalgaon, (Mar.-2006).
3. Bhanarkar M. K., Bhanarkar C. M., Vasambekar P.N and Navarkhele V. V.: *Dielectric studies of formamide with ethylene and propylene glycol using FDR technique at X-band*, International Conference on Nano Materials and Applications, Department of Physics and Chemistry, Shivaji University, Kolhapur-416 004, (Dec.-2008).
4. Bhanarkar M. K., Bhanarkar C. M., Mudholkar R. R., Sawant S. R. and Navarkhele V. V.: *Dielectric relaxation measurements of FMD & PLG binary mixture using TDR & FDR technology*, International Conference on Nano Materials and Applications, Department of Physics and Chemistry, Shivaji University, Kolhapur-416004, (Dec.-2008).
5. Bhanarkar M. K. and Mudholkar R. R.: *Fuzzy support to calibrate soil for good fertilization*, International Conference on Instrumentations (ICI-2009), Cummins College of Engineering, Pune -411 052, (Jan.-2010).
6. Bhanarkar M. K., Nirmale S. S., Kadam P. A., Mudholkar R. R. and Sawant S. R.: *Multi-channel real time FIS for DC motor*, NC-FLAI-09, KBP College, Vashi, Navi Mumbai, (2009).
7. Bhanarkar M. K., Mudholkar R. R., Nirmale S. S. and Kadam P. A.: *Fuzzy Implication using Op-Amp*, National Conference on Pervasive Computing, (NCPC), Sinhgad College of Engineering, Pune, (2010).
8. Bhanarkar M. K., Mudholkar R. R. and Navarkhele V. V.: *Fuzzy system support to study the dielectric parameters of different colours soil*, National Seminar on Advanced Materials (NSAM) Department of Physics, Shivaji University, Kolhapur-416 004, (Mar. 19-20, 2010).
9. Bhanarkar M. K.: *21<sup>st</sup> century towards nano electronics*, National Conference on Nanotechnology: Fundamental and Applications: NCNFA, Department of Physics, Vinayakrao Patil Vidhyalaya, Vaijapur, Aurangabad, (Dec.-2011).
10. Bhanarkar M. K., and Navarkhele V. V.: *Microwave dielectric relaxation study by Frequency and time domain reflectometry techniques*, National Seminar on Properties of Material: NSPM-MDF-2011 Department of Physics, Shivaji University, Kolhapur-416 004, (February-2011).
11. Bhanarkar M. K. and Khandagale V. S.: *ICT for effective administrative education*, Workshop on Challenges in Higher Education, Shivaji University, Kolhapur-416004, (2012).
12. Nadaf A. J., Korake P. M., Wahgmare G. B. and Bhanarkar M. K.: *Comparative study of the designed microstrip patch antenna*, National Conference on Emerging Technologies for Sustainable Developments, Department of Technology, Shivaji University, Kolhapur-416 004, (Dec.-2012)
13. Bhanarkar M. K., Killedar Pallavi S. and Kadam Megha S.: *Design of low gain microstrip patch antenna at 2.5GHz and 3.0GHz frequency*, 2<sup>nd</sup> International conference on OEEM-2012, Changzhou University, Wuhan University, Nanyang Institute of Technology, Shanghai, CHINA, (Aug.-2012)
14. Korake P. M., Nadaf A. J. and Bhanarkar M. K.: *Overview on embedded system design using chipless RFID*, National conference on Recent trends in embedded system, Department of Electronics, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Dec.-2012).

15. Bhanarkar M. K., Khandagale V.S., Nanhey Anajli and Navarkhele V. V.:*ICT for effective educational administration in higher education paradigm*, National conference on Information and Communication Technology for Education (ICTE), Department of Electronics, Shivaji University, Kolhapur (Mar. 4-5, 2013).
16. Nadaf A. J., Ambulgekar K. G. and Bhanarkar M. K.:*Review: Web resources and tools for research*, National conference on Information and Communication Technology for Education (ICTE), Department of Electronics, Shivaji University, Kolhapur (Mar. 4-5, 2013).
17. Korake P. M., Waghmare G. B. and Bhanarkar M. K.: *Online QUIZ: Empowering the ICT in education*, National conference on Information and Communication Technology for Education (ICTE), Department of Electronics, Shivaji University, Kolhapur (Mar. 4-5, 2013).
18. Vidyanand S Khandagale, Rajendra Gavali and Muralidhar K Bhanarkar: *A study of about OER among post graduate students*, National conference on Information and Communication Technology for Education (ICTE), Department of Electronics, Shivaji University, Kolhapur (Mar. 4-5, 2013).
19. Usha Ramgude, Vidyanand S Khandagale and Muralidhar K. Bhanarkar: *Evaluation of educational websites for teaching learning process*, National conference on Information and Communication Technology for Education (ICTE), Department of Electronics, Shivaji University, Kolhapur (Mar. 4-5, 2013).
20. M. K. Bhanarkar and V. V. Navarkhele:*Responses of microwave techniques (Dielectric measurements of materials)*,National Conference On Latest Advances, Trends In Electronic Science and Technology (LATEST) Department of Electronics, Shivaji University, Kolhapur (Feb. 14-15, 2014).
21. Wahgmare G. B., Nadaf A. J., Korake P. M. and Bhanarkar M. K.: *Fractal patch antenna for multiband wireless communication*, National Conference on Latest Advances, Trends in Electronic Science and Technology (LATEST) Department of Electronics, Shivaji University, Kolhapur (Feb. 14-15, 2014).
22. Ayyaj I. Nadaf, S. V. Kulkarni, P. P. Shaha and M. K. Bhanarkar: *Advanced high speed frequency to voltage converter for industrial controllers*, National Conference On Latest Advances, Trends In Electronic Science and Technology (LATEST) Department of Electronics, Shivaji University, Kolhapur (Feb. 14-15, 2014).
23. S. V. Kulkarni, Ayyaj I. Nadaf, P. P. Shaha and M. K. Bhanarkar: *Development of FPGA based RISC processor for process control applications*, National Conference On Latest Advances, Trends In Electronic Science and Technology (LATEST) Department of Electronics, Shivaji University, Kolhapur (Feb. 14-15, 2014).
24. Korake P. M., Wahgmare G. B., Desai Teja T. and Bhanarkar M. K.: *A wireless sensor network for horticulture management*, National Conference On Latest Advances, Trends In Electronic Science and Technology (LATEST) Department of Electronics, Shivaji University, Kolhapur (Feb. 14-15, 2014).
25. P. M. Korake and M. K. Bhanarkar: *Energy efficient wsn system for quality monitoring of crops*,National Conference of Modern Approach for Green Electronics and Computing, Department of Electronics, Yeshwantrao institute of Science, Satara. (Sep. 29-30, 2014).
26. G. B. Waghmare, A. J. Nadaf and M. K. Bhanarkar: *E-shaped patch antenna for C-band wireless communications*,National Conference of Modern Approach for Green Electronics and Computing, Department of Electronics, Yeshwantrao institute of Science, Satara. (Sep. 29-30, 2014).

27. G. B. Waghmare and M. K. Bhanarkar: *Fractal antenna for wireless sensor network system*, National Conference on Wireless Sensor Network and Applications-2014, Shankarao Mohite Mahavidhyalaya, Akluj, Maharashtra (Dec. 12-13, 2014)
28. P. M. Korake and M. K. Bhanarkar: *WSN system to monitor grain storage*, National Conference on Wireless Sensor Network and Applications-2014, Shankarao Mohite Mahavidhyalaya, Akluj, Maharashtra (Dec. 12-13, 2014)
29. Muralidhar Bhanarkar, Ganesh Waghmare and Vaijnath Navarkhele: *Bandwidth enhancement and reduction of spurious radiation of microstrip patch antenna using slot coupled feed line*, 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)
30. Waghmare G. B. and Bhanarkar M. K. *U-shaped patch antenna for S-band applications*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
31. P. M. Korake and M. K. Bhanarkar, *Energy efficient wireless sensor network for electricity theft monitoring*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
32. Dipika Baligade and M. K. Bhanarkar, *Arduino based FR controlled robot*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
33. Ayyaj I. Nadaf, S. V. Kulkarni, P. P. Shaha and M. K. Bhanarkar, *Transfer function identification of frequency to voltage converter*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
34. Pooja Sutar, Prakash Korake, Ganesh Waghmare and M. K. Bhanarkar, *Arduino based FM receiver*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
35. Shirin Shikalgar, Shweta Mali, M. K. Bhanarkar and P. N. Vasambekar, *Study of circular microstrip patch antenna*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
36. Abhijeet Chougule, Prakash Korake, Ganesh Waghmare and M. K. Bhanarkar, *Arduino based traffic signal control system*, ETECS-2015, Department of Electronics and Computer Science, Shivaji University, Kolhapur (Feb. 13-14, 2015)
37. P. M. Korake, G. B. Waghmare and M. K. Bhanarkar *Design of wireless sensor network system for raisins maling monitoring*, International conference on Functional Materials at nano scale concerns and challanges, Karmaveer Bhaurao Patil Mahavidhyalaya, Pandharpur (9-11<sup>th</sup> Mar. -2015)
38. Gaurav Gore, Prakash Korake, Ganesh Waghmare and M K Bhanarkar: *Automatic irrigation system using GSM module*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
39. P M Korake, G B Waghmare and M K Bhanarkar: *Design and development of wireless integrated sensor network for precision agriculture measurement of soil parameter*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
40. Chaitanya Kulkarni, Prakash Korake and M K Bhanarkar: *Mine alerting system using RF module*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)

41. Ram S. Bhosale, Akhilesh D. Shinde and M. K. Bhanarkar: *Hybrid battery charger*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
42. Ranjit Deshmukh, Prakash Korake, Ganesh Waghmare and M K Bhanarkar: *Automatic earthquake indicator*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
43. Rohini Sonawale, R R Mudholkar and M K Bhanarkar: *Automatic Solar Tracking System using Fuzzy Control*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
44. Sonali Raut, Ganesh Waghmare and M K Bhanarkar: *Automatic metal detector robot*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
45. Waghmare G. B. and M K Bhanarkar: *U Shaped Patch Antenna for High Gain Applications*, NCETE-2016, Department of Electronics, Shivaji University, Kolhapur (Feb. 9, 2016)
46. M. K. Bhanarkar: *Sustainable wireless sensor network for precision agriculture measurements*, 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)
47. Charushila Nanhey, M. K. Bhanarkar and B. M. Sargar: *XRD characteristics of ZnO deposited by spray pyrolysis*, 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)
48. G. B. Waghmare, A. R. Patil, G. B. Bhagat, P. M. Patil and M. K. Bhanarkar: *Fractal antenna for GSM application*, RUSA and BRNS Sponsored International Conference on Advanced Technologies for Societal Applications, SVERI's College of Engineering, Pandharpur (Dec. 20-21, 2016)
49. R. C. Padalkar, P. M. Korake, S. M. Godase and M. K. Bhanarkar: *Review-Wireless body area network based health indication system*, National Conference on Innovation Trends in Electronics and Allied Technology, Department of Electronics and computer Science, Yeshwantrao Chavan Institute of Science, Satara (Feb. 23, 2017)
50. Sagar M. Godase, Rahul C. Padalkar and M. K. Bhanarkar: *Implementation of IoT based indoor air quality monitoring system*, International Conference on Applied Science, Shri Kumarswami Mahavidyalaya, Ausa, Latur, India. (Dec., 26-27, 2017)
51. C K Nanhey, M K Bhanarkar and B M Sargar: *Characteristics of formamide with ethylene glycol by FDR technique*, International Conference on Advances in Chemical Sciences, Department of Chemistry, Shivaji University, Kolhapur-416004, INDIA (1st -3rd, Feb. 2018)
52. M K Bhanarkar, C K Nanhey, V S Khandagale, B M Sargar and K N Nanhey: *Role of ICT for effective educational administration in higher education*, 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).
53. Rajvardhan Katkar, Sourabh Jadhav, Sumit Kumbhar and Murali Bhanarkar: *Use of technology for teaching learning process*, 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).
54. Rasika Jadhav, Pragati Jadhav, Varsha Nalawade, Kshitija Nalawade and Murali Bhanarkar: *Use of mobiles for educational purpose*, 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).
55. Sagar Bhasme, Vaibhav Homkar, Ratnadeep Deshmukh and Murali Bhanarkar: *Use of what's app for educational purpose*, 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).

56. Viyanna R. Cabral, Muralidhar Bhanarkar and Vidyanand Khandagale: *Effectiveness of need based curriculum through e-content media for higher education in rural areas-a study*, 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).

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

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

#### **Books :**

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

#### **Others:**

1. Souvenir, "*Interdisciplinary National Conference on Information and Communications Technology*", Department of Electronics and Education, Shivaji University, Kolhapur (March 4-5, 2013)
2. Souvenir, "*National Conference on Emerging Trends in Electronics*", Department of Electronics, Shivaji University, Kolhapur (Feb 9, 2016)
3. 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/Workshop Attended /Paper Presented:
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1. Presented paper, *National Seminar on Adversities and Opportunities: SC/ST Students*, Milind College of Science, Aurangabad. (2003)
2. Participated and attended, *National Conference on Microwaves and Optoelectronics*, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (2004)
3. Participated and attended, *Workshop on Physics Practical*, Department of Physics, Maulana Azad College, Aurangabad. (2005)
4. Presented paper, *National Seminar on Recent Trends in Materials Science*, Department of Physics, School of Physical science; North Maharashtra University, Jalgaon. (2005)
5. Participated and attended, *State Level Ladies Conference*, Milind College of Science, Aurangabad. (Oct.-2006)
6. Presented paper, *International Conference on Microwaves and Optoelectronics*, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (Dec.-2007)
7. Presented paper, *National Conference on Current Trends in Materials Research for Advanced Technology*, Dept. of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (2007)
8. Presented paper, *International Conference on Nano-Materials and Applications*, Department of Physics, Shivaji University, Kolhapur. ( Dec-2008)
9. 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).



<p>Guest Lecture/Visiting Lecture/Chair Session/Invited Talk/Resource Person:</p>
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1. Guest lecture on *Fiber Optics* - UGC NET/SET workshop, Department of Electronics, Shivaji University, Kolhapur, (2009)
2. Resource person for *Development of Module*- UGC NET/SET workshop, Department of Education Shivaji University, Kolhapur, (2009)
3. Guest lecture on *Conservative and Non-Conservative Energy*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2010)
4. Guest lecture on *Cyber Act*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2010)
5. Guest lecture on *Wind Energy*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2011)
6. Guest lecture on *Mobile Technology*- MPSC/UPSC Competitive Exam Centre, Dr. Babasaheb Ambedkar Research Centre, Shivaji University, Kolhapur, (2011)
7. Invited talk on *Nano Electronics*- National Conference on Nano Frontier and application, Vinayakrao Mahavidhyalaya, Vaijapur, Aurangabad, Maharashtra, (2011)
8. Guest lecture on *Optoelectronics*, UGC NET/SET workshop, Department of Electronics, Shivaji University, Kolhapur,(Feb. 28, 2011)
9. 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)