



## RESUME of Dr. Anil Ramdas Bari

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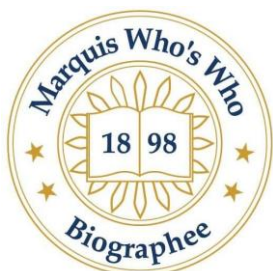
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**Scopus ID:** 26032545800

**Researcher ID:** K-5090-2017

**Vidwan-ID:** 67333

**SSRN-ID:** 4531701



**Date of Birth :** 7<sup>th</sup> March, 1980

**Place of Birth:** Yawal, Tal. – Yawal, Dist. - Jalgaon (INDIA)

**Marital Status:** Married

( Spouse: **Prapti** Daughters: **Bhautiki** and **Prinal** )

**Nationality :** Indian

**Award of M.Sc. degree:** 2007

**Date of joining the College:** 01<sup>st</sup> August 2012

**Present Position:** Head & Assistant Professor in Physics

**Teaching experience :** 10 Years

**Award of Doctoral degree:** August 2011

**Title of thesis of Doctoral degree:** Synthesis of nanostructured ZnO using ultrasonic spray pyrolysis technique and its application in gas sensing.

**Recognition by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**

**P.G. Teacher:** NMU/11/PGR/Physics/960/2016, dated 23/03/2016

**M. Phill & Ph. D Guide:** NMU/11/PGR/718/2018, dated 31/01/2018

**Country Visited:** United State of America (USA)

**Educational Qualifications: M.Sc., Ph.D.**

Examination	University / Board	Year of Passing	% Marks	Class
Ph.D (Nanomaterials)	KBC NMU Jalgaon	August – 2011	---	---
M.Sc. (Physics)	KBC NMU Jalgaon	June – 2007	78.40	*First Class with dist.
B.Sc. (Physics)	KBC NMU Jalgaon	June – 2005	81.00	First Class with dist.
H.S.C	Nasik	March – 1999	59.53	Second Class
S.S.C	Nasik	March – 1997	66.53	First Class

\* Rank Third in the University

**Experience in the field of Higher Education in teaching and research at U.G., P.G. & Ph.D.**

University/ Institution	Post	Duration	
		From	To
Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, Maharashtra.	Assistant Professor	01/08/2012	Till date
	Head	01/08/2012	Till date
Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	Research Guide	31/01/2018	Till date
GDM Arts, KRN Commerce and MD Science College, Jamner	Member, RAC	01/02/2021	Till date
Rani Laxmibai College, Parola	Member, RAC	18/06/2021	Till date

**Registered Ph.D Student: 02****1. Mr. Nitesh Prakash Sawadekar**

**Title of the Ph.D. thesis:** Synthesis and Characterization of Transition Metal Based Oxide Cathodes for Rechargeable Lithium Ion Battery, **Registration No.** KBCNMU/11/Ph.D./Phy/755/2018, 23/05/2018

**2. Mr. Sushil Pandurang Bhavsar**

**Title of the Ph.D. thesis:** Synthesis and Characterization of Metal Oxide Thin Films by Magnetron Sputtering for Solar Cell, **Registration No.** KBCNMU/11/Ph.D./Phy/756/2018, 23/05/2018

**Completed Virtual Internship Science Leadership: 04**

- Mr. Shivam Mahapatra**, Integrated M.Sc., School of Chemical Sciences, NISER, Odisha
- Ms. Smrutimedha Parida**, Integrated M.Sc., Chemistry, NISER, Bhubaneswar
- Ms. Kamalpreet Kaur**, B.Sc. (H) Physics, Sri Venkateswara College, University of Delhi
- Ms. Babita Negi**, M.Tech. Materials Science & Engineering, IIT, Kharagpur

## **Orientation Programme Completed: 01**

1. 114<sup>th</sup> Orientation Programme, UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore, 22<sup>nd</sup> May 2015 to 18<sup>th</sup> June 2015. Grade obtained “A”.

## **Refresher Course Completed: 02**

1. 56<sup>th</sup> Refresher Course in Physical Sciences, UGC-Human Resource Development Centre, Panjabi University, Patiala, 20<sup>th</sup> June 2016 to 09<sup>th</sup> July 2016. Grade obtained “A”.
2. Refresher Course in Physics, UGC-Human Resource Development Centre, University of Mumbai, Mumbai, 6<sup>th</sup> November 2019 to 19<sup>th</sup> November 2019. Grade obtained “A”.

## **Online Faculty Development Programme / Short Term Course / Lecture Series Completed: 18**

1. Faculty Development Program (Online): An Approach for Technical Skill Enhancement (FDPTSE-2020)” organized by the Internal Quality Assurance Cell (IQAC), Toshiwal Arts, Commerce and Science College, Sengaon, Dist. Hingoli, Maharashtra, India from 05<sup>th</sup> to 10<sup>th</sup> May, 2020 during AY 2019-20.
2. One Day Faculty Development Program on “Online Teaching Learning Tools” An Online Training Programme organized by Department of Computer Science & Application, G. S. College of Commerce & Economics (Autonomous College) Jabalpur (M.P.) 27<sup>th</sup> May 2020.
3. Five Day Faculty Development Program on “Evaluation from Offline to Online Teaching” organized by Satish Pradhan Dnyanasadhana College, Thane 30<sup>th</sup> May to 3<sup>rd</sup> June 2020.
4. One Week Online Faculty Development Program on “Modern Teaching m Evaluation and Research Methods (MTERM)” organized by Vinayakrao Patil Mahavidhyalaya, Vaijapur under UGC Scheme STRIDE Component-I, 02<sup>nd</sup> June to 07<sup>th</sup> June 2020. Grade obtained “A”.
5. Five Days Online Faculty Development Program on “Green Energy and Renewable Energy for Physics and Electronics Teachers”, organized by Savitribai Phule Pune University, Faculty Development Centre, HRDC, SPPU and Tapi Valey Education Society’s Dhanaji Nana Mahavidyalaya, Faizpur, Dist – Jalgaon, Maharashtra, Under Scheme PMMMNMTT, 08<sup>th</sup> June to 12<sup>th</sup> June 2020.
6. Three Days Faculty Development Program on “Recent Trends on Technology and Teaching Learning Methodology”, organized by SAGE University, Indore, 9<sup>th</sup> July to 11<sup>th</sup> July 2020.
7. One Week Online International Faculty Development Program on “Advanced Materials & Mathematical Tool”, organized by Govindrao Wanjari College of Engineering & Technology, Nagpur, Maharashtra, 10<sup>th</sup> July to 14<sup>th</sup> July 2020.
8. Train-the-Teacher Training Programme (TTT Programme) on the theme “Online Learning: Live Classroom Teaching Platform” organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra, 20<sup>th</sup> July to 23<sup>rd</sup> July 2020.
9. Five Days Faculty Development Program on “Nanomaterials Characterization Techniques and Results Analysis Methodology: Ideas Innovations & Initiatives” organized by Faculty Development Centre, HRDC, SPPU and S. N. Arts, D. J. Malpani Commerce and B. N. Sarda College (Autonomous), Sangamner, Under Scheme PMMMNMTT, 27<sup>th</sup> July to 31<sup>st</sup> July 2020.
10. Online Faculty Development Program (FDP) on “The Role of Materials Science in Engineering: Applications Perspective” organized by Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet, Hyderabad, Telengana, 3<sup>rd</sup> to 7<sup>th</sup> August 2020.
11. International short Course on Advanced Physics, organized by Department of Physics, K. J. Somaiya College of Science and Commerce, Mumbai – India, 6<sup>th</sup> to 8<sup>th</sup> August, 2020.

12. One week Short Term Training Programme on “ Techno-Economic Solution for Sustainable Municipal Solid Waste Management for Development of Smart Cities in India” organized by Chemical Engineering Department of IPS Academy, Institute of Engineering & Science, Indore, 01<sup>st</sup> to 05<sup>th</sup> September 2020.
13. Online Faculty Development Programme on “Photonics” organized by AICTE Training and Learning (ATAL) Academy at Rajarshri Shahu Mahavidhyalaya, Latur, 03<sup>rd</sup> to 07<sup>th</sup> November 2020.
14. Five-Day Online Lecture Series organized by Khalsa College, Patiala, 22<sup>nd</sup> to 26<sup>th</sup> December 2020.
15. One Week Faculty Development Programme on “Research Methodology” organized by Kamla Nehru Mahavidyalaya, Nagpur, 26<sup>th</sup> April to 1<sup>st</sup> May, 2021.
16. UGC-STRIDE Online Lecture Series Programme organized by Department of Physics, Shivaji University, Kolhapur, 27<sup>th</sup> -10<sup>th</sup> April, 2021.
17. Faculty Development Programme on “Building Emotional Intelligence and Resilience Case Method of Experiential Teaching and Learning” organized by Faculty Development Centre, Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Govt. of India, Hyderabad sponsored by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), 10<sup>th</sup> to 14<sup>th</sup> May, 2021.
18. One Week National Level Online Faculty Development Programme on “Innovations in Materials and Manufacturing Process (IMMP-2021)” Organized by Vemu Institute of Technology, P. Kothakota, Tirupati, A.P., 21<sup>st</sup> to 25<sup>th</sup> June 2021.
19. Five Days Faculty Development Programme on “Implementation of Case Discussion Methodology in Rural Entrepreneurship and Social Entrepreneurship” organized by Faculty Development Centre, Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Govt. of India, Hyderabad sponsored by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), 23<sup>rd</sup> to 27<sup>th</sup> November, 2021.
20. 7 days NSS Training Programme conducted by NSS Empaneled Training Institution, Maharashtra, Ministry of Youth Affairs and Sports, Government of India, Ahmednagar College, Ahmednagar, 25<sup>th</sup> to 31<sup>st</sup> January 2022.
21. Virtual International One -Week Faculty Development Programme on Research Methodology, Amar Seva Mandal’s Kamla Nehru Mahavidyalaya, Nagpur, 2<sup>nd</sup> -7<sup>th</sup> May 2022.

### **Other Qualification:**

1. Diploma course in Computer Software (DCS).
2. Maharashtra State-Certificate course in Information Technology (MS-CIT).

### **Research Experience:**

1. **Project at Graduation:**  
Synthesis and characterization of chemical bath deposited CdS thin films.
2. **Project at Post Graduation:**  
Synthesis and characterization of chemical bath deposited CuBiSe<sub>2</sub> thin films.

### **Linkages and Collaborations: 02**

1. Centre for Materials for Electronics Technology (C-MET), Pune, Maharashtra
2. UGC DAE Consortium for Scientific Research, Indore, Madhya Pradesh

### **MOU signed: 03**

1. Department of Physics, Dadasaheb Devidas Namdev Bhole College, Bhusawal
2. Department of Physics, Dhanaji Nana College, Faizpur.
3. Pune Vidyarthi Griha's College of Science, Pune

### **Interest in Trust Area of Research:**

1) Nanomaterials, 2) Materials Science, 3) Gas sensor [Ammonia (NH<sub>3</sub>), Carbon dioxide (CO<sub>2</sub>), Chlorine (Cl<sub>2</sub>), Hydrogen (H<sub>2</sub>), Ethanol (C<sub>2</sub>H<sub>5</sub>OH) and Liquefied petroleum gas (LPG)], 4) Chemical warfare agent and their simulants detections [**Chemical Warfare Agents:** Tabun, Sarin, Soman, VX, Phosgene, Sulphur mustard, Nitrogen mustard, Lewsite, Methyl isocyanate and **Simulants:** Dimethyl methylphosphonate (DMMP), Chloroethyl ethyl sulfide (CEES) and 2-chloroethyl phenyl sulfide (CEPS)], 5) Thick films physics, 6) Thin films physics, 7) Photoconducting and photoluminescent material, 8) Sunscreen lotions & creams., 9) Battery Materials.

### **Techniques:**

- 1) Ultrasonic spray pyrolysis, 2) Ultrasonic atomization, 3) Spray Pyrolysis, 4) Sol-gel, 5) Chemical bath deposition and 6) Screen printing.

### **Instrument Handling:**

1) Fluorescence spectrophotometer (Perkin Elmer, LS-55), 2) UV- Vis spectroscopy (Simadzu, 2450 UV-VIS), 3) Fourier transform infrared spectrophotometer (Perkin Elmer, Spectrum-BX), 4) TGA/DTA-Simultaneous Thermal Analysis (Perkin Elmer, STA 6000), 5) Hall measurement setup (25 kg Gauss), 6) Kiethly meters: Electrometer/High resistance meter (Kiethly-5617A), AC/DC current source (6221A), Nanovoltmeter (2182A), Digital multimeter (2000), 7) Data acquisition system, 8) Epignost microscope (Carl Zeiss), 9) Auto compute LCR-Q meter (4910), 10) Spectrophotometer for measurement of spectral response, 11) Ultrasonic atomizer (2.1–2.3 MHz Gapsol 9001 RBI Meylan, France), 12) Ultrasonic generator with spray nozzle (120 kHz, Sono-Tek), 13) Vacuum system and 14) Indigenous gas sensing system with data acquisition.

### **Research proposal submitted:**

1. Minor project entitled “Synthesis and characterization of nanostructured ZnO powder using sol-gel technique” submitted to University Grant Commission.
2. Major Project entitled “Nanostructured Metal Chalcogenide Thin Films For Solar Cell” submitted to UGC-DAE, CSR, Indore.
3. Minor project entitled “Synthesis of nanostructured CdS/ZnS thin films using sol-gel technique and its application in photosensing” submitted to North Maharashtra University, Jalgaon under Vice-Chancellor Research Motivation Schemes.
4. Major Research Project “Assessment Regarding Role of ASHA Worker in Social, Healthcare Development of Villages in Maharashtra” submitted to UGC, New Delhi, under STRIDE Schemes.
5. A Research Project “A Study on Water harvesting Recycling and its Application in Bodwad Taluka of Jalgaon District” submitted to KBC NMU, Jalgaon, under RGS&TC scheme, Gov.of Maharashtra.

**Research Articles Published in Journals of International Repute with Impact Factor:50**

Sr. No.	Journals	Publications	ISSN No.	I F	Total I F
1	Sensors and Actuators B: Chemical	7	0925-4005	7.460	52.220
2	Advanced Powder Technology	1	0921-8831	4.833	4.833
3	IEEE-Sensors Journal	2	1530-437X	3.301	6.602
4	Physica Scripta	1	1402-4896	2.487	2.487
5	Current Applied Physics	1	1567-1739	2.480	2.480
6	Materials Science and Engineering B	1	0921-5107	7.328	7.328
7	Journal of Experimental Nanoscience	1	1745-8080	3.075	3.075
8	Bulletin of Materials Science	1	0250-4707	1.783	1.783
9	Indian Journal of Pure & Applied Physics	1	0019-5596	0.923	0.923
10	Sensor Review	1	0260-2288	1.710	1.710
11	Materials Technology: Advanced Performance Materials	1	1753-5557	3.350	3.350
12	Optoelectronics and Advanced Materials – Rapid Communications	1	1842-6573	0.445	0.445
13	Nanomedicine & Nanotechnology Open Access	2	2574-187X	1.568	3.136
14	Sensors and Transducers	1	1726-5479	0.987	0.987
15	International Journal Chemical and Physical Sciences	1	2319-6602	1.020	1.020
16	Journal of Research & Development	2	2230-9578	7.26 <sup>b</sup>	14.52
17	Journal of Emerging Technologies and Innovative Research <a href="#">63975</a>	1	2349-5162	7.95 <sup>c</sup>	7.95 <sup>c</sup>
18	AJANTA	2	2277-5730	6.399 <sup>c</sup>	12.798
19	Journal of Materials Science and Engineering	1	2169-0022	3.99	3.99
20	Journal of Engineering Sciences	2	0377-9254	6.54 <sup>c</sup>	13.08 <sup>c</sup>
21	Journal of Nanostructures	1	2251-788X	1.371	1.371
22	International Journal of Nanomaterials and Nanostructures	1	2455-5584	---	---
23	ISRN Nanotechnology	1	2090-6072	---	---
24	International Nano Letters	1	2228-5326	---	---
25	Journal of Nanoengineering and Nanomanufacturing	1	2157-9334	---	---
26	Materials Focus	1	2169-4303	---	---
27	Journal of Nanomaterials & Molecular Nanotechnology	1	2324-8777	---	---
28	International Journal of Scientific Research in Science and Technology <a href="#">64011</a>	1	2395-6011 2395-602X	---	---
29	International Journal on Smart Sensing and Intelligent System	1	1178-5608	---	---
30	Procedia Materials Science	2	2211-8128	---	---
31	Journal of Young Investigators	1	1539-4026	---	---
32	Journal of Tissue Science and Engineering	1	2157-7552	---	---
33	International Journal of Innovative Research in Science, Engineering and Technology	1		---	---
34	AIP Conference Proceedings	1	978-0-354-0825-8	---	---

35	AIP Conference Proceedings	1	978-0-7354-1160-9	---	---
36	AIP Conference Proceedings	2	978-0-7354-1648-2	---	---
37	Management Guru: Journal of Management Research	1	2319-2429	---	---
<b>Total</b>		<b>50</b>			<b>146.088</b>

Thomson Router IF, <sup>a</sup>ISRA IF, <sup>b</sup>COSMOS IF, <sup>c</sup>Journal IF

#Total I F (Impact Factor) of **50** articles = **146.088** Average Impact Factor: **2.921**

Scopus *h*-index: **12** Google Scholar *h*-index: **16** Google Scholar *i10*-index: **21**

Web of Science H-INDEX: **11**

Scopus Citations: **409** Web of Science Citations: **342** Google Citations: **787**

### **Research Articles Published: 50 (International: 48, National: 02)**

- 1) Effect of solvents on particle morphology of nanostructured ZnO.  
**A.R. Bari**, M.D. Shinde, Vinita Deo and L.A. Patil\*  
*Indian Journals of Pure and Applied Physics*, 47 (2009) 24–27.
- 2) Novel trapping system for size wise sorting of SnO<sub>2</sub> nanoparticles synthesized from pyrolysis of ultrasonically atomized spray for gas sensing.  
L.A. Patil\*, M.D. Shinde, **A.R. Bari** and V.V. Deo  
*Sensors and Actuator B: Chemical*, 143 (2009) 316–324.
- 3) Highly sensitive and quickly responding ultrasonically sprayed nanostructured SnO<sub>2</sub> thin films for hydrogen gas sensing.  
L.A. Patil\*, M.D. Shinde, **A.R. Bari** and V.V. Deo  
*Sensors and Actuator B: Chemical*, 143 (2009) 270–277.
- 4) Ultrasonically prepared nanocrystalline ZnO thin films for highly sensitive LPG sensing.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde and Vinita Deo  
*Sensors and Actuators B: Chemical*, 149 (2010) 79–86.
- 5) Ultrasonically synthesized nanocrystalline ZnO powder based thick film sensor for ammonia sensing.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde and Vinita Deo  
*Sensor Review*, 30 (2010) 290–296.
- 6) Effect of precursor concentrations on structural, microstructural and optical properties of nanocrystalline ZnO powder synthesized by ultrasonic atomization technique.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde, Vinita Deo and M.P. Kaushik  
*Physica Scripta*, 82 (2010) 035601–035606.
- 7) Highly sensitive ethanol sensors based on nanocrystalline SnO<sub>2</sub> thin films.  
L.A. Patil\*, M.D. Shinde, **A.R. Bari** and V.V. Deo  
*Current Applied Physics*, 10 (2010) 1249-1254.

- 8) Highly sensitive thin film nanostructured SnO<sub>2</sub> for hydrogen sensing.  
L.A. Patil\*, M.D. Shinde, **A.R. Bari** and V.V. Deo  
*AIP Conference Proceedings*, 1276 (2010) 327-334.
- 9) Synthesis of ZnO nanocrystalline powder from ultrasonic spray pyrolysis technique, characterization and its application in gas sensing.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde, Vinita Deo and D.P. Amalnerkar  
*IEEE Sensors Journal*, 11 (2011) 939–946.
- 10) Effect of pyrolysis temperature on structural, microstructural and optical properties of nanocrystalline ZnO powders synthesized by ultrasonic spray pyrolysis technique.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde and Vinita Deo  
*Journal of Experimental Nanoscience*, 6 (2011) 311–323.
- 11) Effect of aerosol carriers on ultrasonically prepared nanocrystalline ZnO powders.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde, Vinita Deo and M.P. Kaushik  
*Advanced Powder Technology*, 22 (2011) 722–727.
- 12) Fe<sub>2</sub>O<sub>3</sub> modified thick films of nanostructured SnO<sub>2</sub> powder consisting of hollow microspheres synthesized from pyrolysis of ultrasonically atomized aerosol for LPG sensing.  
L.A. Patil\*, M.D. Shinde, **A.R. Bari**, V.V. Deo, D.M. Patil and M.P. Kaushik  
*Sensors and Actuator B: Chemical*, 155 (2011) 174-182.
- 13) Synthesis of SnO<sub>2</sub> hollow microspheres from ultrasonic atomization and their role in hydrogen sensing.  
L.A. Patil\*, M.D. Shinde, **A.R. Bari** and V.V. Deo  
*Materials Science and Engineering B*, 176 (2011) 579–587.
- 14) Sensing of 2-chloroethyl ethyl sulfide (2-CEES) - a CWA simulant - using pure and platinum doped nanostructured CdSnO<sub>3</sub> thin films prepared from ultrasonic spray pyrolysis technique  
L.A. Patil\*, V.V. Deo, M.D. Shinde, **A.R. Bari** and M.P. Kaushik  
*Sensors and Actuator B: Chemical*, 160 (2011) 234-243.
- 15) Detection of dimethyl methyl phosphonate – a simulant of sarin: the highly toxic chemicalwarfare –using platinum activated nanocrystalline ZnO thick films.  
L.A. Patil\*, **A.R. Bari**, M.D. Shinde, Vinita Deo and M.P. Kaushik  
*Sensors and Actuators B: Chemical*, 161 (2012) 372–380.
- 16) Spray pyrolysed nanostructured ZnO thin film sensors for ethanol gas.  
R.H. Bari\*, S.B. Patil, **A.R. Bari**, G.E. Patil, J. Ambaker  
*Sensors and Transducers*, 140 (2012) 124-132.
- 17) Preparation, characterization and H<sub>2</sub>S sensing performance sprayed nanostructured SnO<sub>2</sub> thin films.  
R.H. Bari\*, R.S. Khadayate, S.B. Patil, **A.R. Bari**, G.H. Jain, L.A. Patil and B.B. Kale  
*ISRN Nanotechnology*, 2012 (2012), Article ID 734325, 5 pages.



- 18) Influence of precursor concentration solution on CO sensing performance of sprayed nanocrystalline SnO<sub>2</sub> thin films.  
R.H. Bari\*, S.B. Patil and **A.R. Bari**  
*Optoelectronics and Advanced Materials - Rapid Communications*, 6 (2012) 884-895.
- 19) LPG sensing performance of nanostructured zinc oxide thin films  
**A.R. Bari\*** and L.A. Patil  
*AIP Conference Proceedings*, 1536 (2013) 1280-1281.
- 20) Chemically sprayed nanocomposite SnO<sub>2</sub>-ZnO thin film for ethanol gas sensor.  
R.H. Bari\*, S.B. Patil and **A.R. Bari**  
*Journal of Nanoengineering and Nanomanufacturing*, 3 (2013) 1-5.
- 21) Spray pyrolysed nanostructured CuO thin films for H<sub>2</sub>S gas sensor.  
R.H. Bari\*, S.B. Patil and **A.R. Bari**  
*International Nano Letters*, 3 (2013) 1-5.
- 22) Effect of molarity of precursor solution on physical, structural, microstructural and electrical properties of nanocrystalline ZnO thin films.  
R.H. Bari\*, S.B. Patil and **A.R. Bari**  
*Materials Technology: Advanced Performance Materials*, 28 (2013) 214-220.
- 23) Detection of H<sub>2</sub>S gas at lower operating temperature using sprayed nanostructured In<sub>2</sub>O<sub>3</sub> thin films.  
R.H. Bari\*, P.P. Patil, S.B. Patil and **A.R. Bari**  
*Bulletin of Materials Science*, 36 (2013) 967-972.
- 24) Characterizations of ultrasonically prepared nanostructured ZnO powder and NH<sub>3</sub> sensing performance of its thick film sensor  
**Anil R. Bari**, Lalchand A. Patil, Idris G. Pathan, Dinesh N. Surawanshi, Dhayaghan S. Rane  
*Procedia Materials Science*, 6 (2014) 1798–1804.
- 25) Spray pyrolyzed ZnSnO<sub>3</sub> nanostructured thin film for hydrogen sensing  
Lalchand A. Patil, Idris G. Pathan, Dinesh N. Surawanshi, **Anil R. Bari**, Dhayaghan S. Rane  
*Procedia Materials Science*, 6 (2014) 1557–1565.
- 26) Improved 2-CEES sensing performance of spray pyrolyzed Ru-CdSnO<sub>3</sub> nanostructured thin films.  
L.A. Patil\*, V.V. Deo, M.D. Shinde, **A.R. Bari**, D. M. Patil and M.P. Kaushik  
*Sensors and Actuator B: Chemical*, 191 (2014) 130-136.
- 27) Spray Pyrolysed Prepared CuO- ZnO Nanocomposites Thin Films For Ethanol Sensor  
R.H. Bari\*, S.B. Patil and **A.R. Bari**  
*Materials Focus*, 3 (2014) 119-124.

- 28) Synthesis, characterization and gas sensing performance of sol-gel prepared nanocrystalline SnO<sub>2</sub> thin films.  
Ramesh H. Bari\*, Sharad B. Patil and **Anil R. Bari**  
*International Journal on Smart Sensing and Intelligent System*, 7 (2014) 610-629.
- 29) Ultrasonically Sprayed Nanostructured Perovskite-Type CdSnO<sub>3</sub> Thin Films for Sensing of CWA Simulants.  
L.A. Patil, V.V. Deo, M.D. Shinde, **A.R. Bari**, D.M. Patil, M.P. Kaushik  
*IEEE Sensor Journal*, 14 (2014) 3014–3020.
- 30) Enhancing the Sensing Properties of Nanosensors for Detection of Gases  
**Anil Ramdas Bari**  
*International Journal of Nanomaterials and Nanostructures*, 1 (2015) 35-36.
- 31) Synthesis and Characterizations of Zinc Oxide Nanoparticles  
**A.R. Bari**, N. P. Sawadekar, Prapti A. Bari, R. H. Bari, D. N. Surywanshi, I.G. Pathan and  
L.A. Patil  
*Journal of Research and Development*, 08 (2017) 48-50.
- 32) Preparation of thin films by using simple spray pyrolysis technique  
D. N. Surywanshi, I.G. Pathan, **A. R. Bari** and L. A. Patil  
*Journal of Research and Development*, 08 (2017) 41-47.
- 33) A Study on Use of Information and Communication Technology (ICT) Tools by College Teachers in NAAC Work  
Arvind Chaudhari, **Anil Bari**  
*Management Guru: Journal of Management Research*, 06 (2018) 101-104.
- 34) Synthesis and Characterizations of Zinc Oxide Nanowires  
**A. R. Bari**, N. Sawadekar, P. Bari, R. Bari, D. Surywanshi, I. Pathan and L. Patil  
*International Journal of Chemical and Physical Sciences*, 07 (2018) 371-374.
- 35) Preparation, characterization and gas sensing performance of BaTiO<sub>3</sub> nanostructured thinfilms  
Dinesh N. Surywanshi, Idris G. Pathan, **Anil R. Bari** and Lalachand A. Patil  
*AIP Conference Proceedings*, 1953 (2018) 030041(1-4).
- 36) Effect of Iron doping on structural and microstructural properties of the nanocrystalline ZnSnO<sub>3</sub> thin films prepared by spray pyrolysis technique  
Idris G. Pathan, Dinesh N. Surywanshi, **Anil R. Bari** and Lalachand A. Patil  
*AIP Conference Proceedings*, 1953 (2018) 030115 (1-4).
- 37) Ammonia and DMMP Sensor based on Nanostructured ZnO Thick Films  
**Bari AR\***, Bari PA, Bari RH and Patil LA  
*Nanomedicine & Nanotechnology Open Access*, 03 (2018) 000146 (1-5).

- 38) Nanostructured ZnO: A promising material for sensing application  
**Anil Ramdas Bari**  
*Journal of Materials Science and Engineering*, 7 (2018) 83
- 39) Preparation, characterization of nanostructured ZnO powder and sensing performance of its thick film sensor  
**Anil Bari**, Prapti Bari, Lalchand Patil, Dinesh Surywanshi, Idris Pathan  
*AJANTA VIII –I* (2019) 64-69.
- 40) Hydrogen gas sensing properties of Titanium Di Oxide thin films by Simple Spray Pyrolysis  
Dinesh Surywanshi, Idris Pathan **Anil Bari**, Lalchand Patil  
*AJANTA VIII –I* (2019) 227-234.
- 41) Effect of iron doping on structural, microstructural and gas sensing properties of nanocrystalline ZnSnO<sub>3</sub> thin films prepared by spray pyrolysis techniques  
Idris G. Pathan, Dinesh N. Surywanshi, **Anil R. Bari**, Lalchand A. Patil  
*Journal of Emerging Technologies and Innovative Research*, 6 (2019) 478-485.
- 42) Studies on sol-gel dip-coated nanostructured ZnO thin films  
**Anil Bari\***, Prapti Bari, Ramesh Bari  
*Journal of Nanostructures*, 9 (2019) 326-330
- 43) Choice of Material for Sensor: Nanostructured Zinc Oxide  
**Anil Manjulabai Ramdas Bari**  
*Nanomedicine & Nanotechnology Open Access*, 05 (2020) 1-2.
- 44) Nanostructured Zinc Oxide Synthesis Of Sn Doped TiO<sub>2</sub> Thin Films And Their Application To H<sub>2</sub> Gas Sensing Properties  
Dinesh N. Suryawanshi\*, Idris G. Pathan, **Anil R. Bari**, Lalchand A. Patil  
*Journal of Engineering Sciences*, 11 (2020) 1242-1246.
- 45) Preparation and Characterizations of Zinc Oxide Nanoparticles  
**Anil Bari\***, Prapti Bari, Lalchand Patil, Ramesh Bari, Dinesh Surywanshi and Idris Pathan  
*Journal of Engineering Sciences*, 11 (2020) 1252-1253.
- 46) Synthesis, characterization of nano ZnO powder and their potential use as thick film chemical sensor  
**Anil Ramdas Bari\***,  
*Journal of Tissue Science and Engineering*, 11 (2020) Issue 3.
- 47) Chemical Sensor using Pt –loaded ZnO Thick Film  
**Anil Ramdas Bari\***,  
*International Journal of Innovative Research in Science, Engineering and Technology*, 2(2021) Issue 5, page 1
- 48) Recent Development and Scope of Transition Metal Oxide Based Cathode Material - A Review  
Nitesh P. Sawadekar, **Anil R. Bari\***, Sushil P. Bhavsar  
*International Journal of Scientific Research in Science and Technology*, 9 (2021) 132-

136.

- 49) Detection of hazardous gas using nanostructured ZnO Thick Film

**Anil Ramdas Bari\***

*Journal of Nanomaterials & Molecular Nanotechnology*, 10 (2021) 1.

- 50 Locating Supermassive Black Holes in Distant Galaxies via RADIO GALAXY ZOO: LOFAR Project

Kamalpreet Kaur and **Anil Ramdas Bari\***

*Journal of Young Investigators*, 25 (2022) 48-56.

#### **Research Articles Submitted: 01**

01. Review on Ultrasonic Spray Pyrolysis - a novel method in the synthesis of metal oxide Electron Transport Layers for more efficient and stable perovskite solar cells

Shivam Mahapatra and **Anil Ramdas Bari\***

#### **Book Published: 04**

- 1) **PHYSICS Standard XI Text Book**

Maharashtra State Bureau of Textbook Production and Curriculum Research (Balbharti), Pune Year 2019

- 2) **PHYSICS Standard XI Practical Book**

Maharashtra State Bureau of Textbook Production and Curriculum Research (Balbharti), Pune, Year - 2019

- 3) **Gas Sensor – Technology and Applications**

LAMBERT Academic Publishing, International Book Market Service Ltd., member of OmniScriptum Publishing Group, 17 Meldrum Street, Beau Bassin 71504, Mauritius.  
**ISBN: 978-620-3-30551-7**, 3<sup>rd</sup> February 2021

- 4) **Maze Kutumbh - Mazi Jababdari Samajik Bandhilki Aani Janiv**

Atharv Publication, Shop No. 2 Nakshtra Apartment, Shahunagar Housing Society, TeliSamaj Mangal Karyalya samor, Jalgaon-425001  
**ISBN: 978-81-953171-1-0**, 23<sup>rd</sup> June 2021

#### **Chapter in Book: 04**

- 1) **Preparation and Gas Sensing Properties of Nanostructured ZnSnO<sub>3</sub> Thin Films**

**Page No.** 143-157, **Volume:** 143 **Year:** 2013, **DOI** 10.1007/978-3-642-34216-5\_15  
Springer Proceedings in Physics

**Book Title:** Advanced Nanomaterials and Nanotechnology

**Book Subtitle:**

Proceedings of the 2<sup>nd</sup> International Conference on Advanced Nanomaterials and Nanotechnology, Dec. 8-10, 2011, Guwahati, India

**ISSN:** 0930-8989

**ISSN:** 1867-4941 (electronic)

**ISBN:** 978-3-642-34215-8

**ISBN:** 978-3-642-34216-5 (eBook)

- 2) **Reform in Education System, Page No.:** 138-139.

**Book Title:** Digital Education: Resources and Techniques

**ISBN:** 978-93-90483-18-1, 14<sup>th</sup> November 2020

- 3) Preparation of Nanostructured ZnO Powder and its use as a Thick Film Chemical Sensor, Page No.: **39**.

**Book Title:** International E-Conference on ADVANCED MATERIALS SCIENCE AND GRAPHENE NANOTECHNOLOGY

**ISBN:** 978-1-8382915-1-8, November 25-26, 2020 | Webinar

- 4) **Government to Family Page No.:** 49-52.

**Book Title:** Maze Kutumbh - Mazi Jababdari *Samajik Bandhilki Aani Janiv*

**ISBN:** 978-81-953171-1-0, 23<sup>rd</sup> June 2021

#### **Participation /Paper Presented in National and International Level Conferences: 47**

1. Synthesis and characterization of chemically deposited thin films of copper indium sulphoselenide, ICAMA-2007, Shivaji University, Kolhapur, 15-17 November, 2007.
2. Effect of preparative condition on particle morphology of nanostructured ZnO, Role of Nanotechnology in Polymer and Chemical Industries, Department of Chemical Technology, N.M.U Jalgaon, 15 March, 2008.
3. Highly sensitive and quickly responding ultrasonically sprayed nanostructured SnO<sub>2</sub> thin films for hydrogen gas sensing, ICANN-2009, Indian Institute of Technology (IIT), Guwahati, 7-10 December, 2009.
4. Gas sensing performance of thick film sensors based on ultrasonically synthesized nanocrystalline ZnO powder, ICNB-2010, Raghu Engineering College, Visakhapatnam, 20 & 21 January, 2010.
5. Nanostructured CdSnO<sub>3</sub> thin films for gas sensing, ICNB-2010 Visakhapatnam, 20 & 21 January, 2010.
6. Nanocrystalline ZnO based sunscreen lotions, NSAPANA-2010, A.C.S College, Nandagaon, 17-19 February, 2010.
7. Detection of simulants of chemical warfare agents using nanostructured semiconducting metal oxide thin/thick films, IWSSCGGC-2010, Centre for materials for Electronics Technology (C-MET), Pune, 7-10 July, 2010.
8. Nanocrystalline particles and nanostructured hollow microspheres of SnO<sub>2</sub> from ultrasonic atomization and pyrolysis, IWSSCGGC-2010, Centre for materials for Electronics Technology (C-MET), Pune, 7-10 July, 2010.
9. Effect of pyrolysis temperature on ultrasonically atomized nanocrystalline ZnO powders, NCRAMS-2011, D. D. N. B. College, Bhusawal, Jalgaon, Maharashtra, India, 22 & 23 January, 2011.
10. Ultrasonically sprayed platinum doped nanocrystalline SnO<sub>2</sub> thin films for liquefied petroleum gas (LPG) sensing, NCRAMS-2011, D. D. N. B. College, Bhuswal, 22 & 23 January, 2011.
11. Synthesis of perovskite type nanostructured CdSnO<sub>3</sub> thin films by ultrasonic spray pyrolysis technique, NCRAMS-2011, D. D. N. B. College, Bhuswal, 22 & 23 January, 2011.
12. Detection of simulants of highly toxic chemical warfare agents (CWAs) using nanostructured pure and platinum modified zinc oxide thin films, ICANN-2011, Indian<sup>13</sup>

- Institute of Technology (IIT), Guwahati, 8-10 December, 2011.
13. Preparation and gas sensing properties of perovskite nanostructured ZnSnO<sub>3</sub> thin films, ICANN-2011, Indian Institute of Technology (IIT), Guwahati, 8-10 December, 2011.
  14. Nanostructured Ni doped TiO<sub>2</sub> thin films for LPG sensing, ICANN-2011, Indian Institute Technology (IIT), Guwahati, 8-10 December, 2011.
  15. Nanostructured ZnO thick film based chemical sensor, ISPTSONE-2012, Centre for materials for Electronics Technology (C-MET), Pune, 8-10, March 2012.
  16. Hydrogen sensor based on sol-gel dip coated nanocrystalline ZnO thin film, NC IDRIS - 2012, Shri. D. H. Agrawal, Shri. Rang Avadhoot Commerce and Shri. C. C. Shah & M. G. Agrawal Science College, Navapur, Dist. Nandurbar, 6 & 7 October, 2012.
  17. Ultrasonically atomized zinc oxide nanopowders: Preparation, characterizations and its thick film as a chemical sensor, NC IDRIS - 2012, Shri. D. H. Agrawal, Shri. Rang Avadhoot Commerce and Shri. C. C. Shah & M. G. Agrawal Science College, Navapur, Dist. Nandurbar, 6 & 7 October, 2012. **(Best Oral Presentation)**
  18. Nanostructured ZnSnO<sub>3</sub> and composite ZnO: SnO<sub>2</sub> thin films: Preparation and gas sensing properties, NC IDRIS - 2012, Shri. D. H. Agrawal, Shri. Rang Avadhoot Commerce and Shri. C. C. Shah & M. G. Agrawal Science College, Navapur, Dist. Nandurbar, 6 & October 7, 2012.
  19. Ultrasonically sprayed nanostructured perovskite type CdSnO<sub>3</sub> thin films for sensing of CWA simulants, NC IDRIS - 2012, Shri. D. H. Agrawal, Shri. Rang Avadhoot Commerce and Shri. C. C. Shah & M. G. Agrawal Science College, Navapur, Dist. Nandurbar, 6 & 7 October, 2012.
  20. Studies on ultrasonically prepared nanostructured ZnO powders, National Seminar on Advanced Materials and It's Applications – 2013, Arts and Science College, Dondaicha, Dist. Dhule, 1 & 2 February, 2013.
  21. Photovoltaic system for solar electricity generation: The best solar energy option, Interdisciplinary International Conference Relevance of Higher for the Development of Human Resource, Sunit's Institute of English Language, Literate & Research, Jalgaon, 7 & 8 March, 2014.
  22. Characterizations of ultrasonically prepared nanostructured ZnO powder and NH<sub>3</sub> sensing performance of its thick film sensor, 3<sup>rd</sup> International Conference on Materials Processing and Characterization (ICMPC 2014), Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad, 8 & 9 March, 2014.
  23. Spray pyrolyzed ZnSnO<sub>3</sub> nanostructured nanostructured thin film for hydrogen sensing, 3<sup>rd</sup> International Conference on Materials Processing and Characterization (ICMPC 2014), Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad, 8 & 9 March, 2014.
  24. Studies on sol- gel prepared nanostructured zinc oxide thin films, National Conference on Emerging Trends in Physical and Chemical Sciences (NCET-PCS), Department of Physics, Government Holkar (Autonomous) Science College, Indore, 15 & 16 March, 2014.

25. Dimethyl Methyl Phosphonate detection using Pt-modified nanostructured ZnO thick, International Conference on Advances in Functional Materials (AFM-2015), Stony Brook University, New York, U. S. A. held during 29 June – 3 July, 2015.
26. Ultrasonically Sprayed Nanostructured ZnO Thin Films For Sensor Applications, Silver Jubilee Conference on Study of Matter Using Intense Radiation Sources and Under Extreme Conditions, UGC-DAE Consortium for Scientific Research, University Campus, Indore. held during 3<sup>rd</sup> – 6<sup>th</sup> November 2016.
27. Sol-gel Prepared Zinc Oxide Nanowires, International Conference on Advanced Rechargeable Batteries & allied Materials (ICARBM-2017), Centre for materials for Electronics Technology (C-MET), Pune, 8-10, March 2017.
28. Chemically Prepared Zinc Oxide Hexagonal Plates, International Conference on Advanced Rechargeable Batteries & allied Materials (ICARBM-2017), Centre for materials for Electronics Technology (C-MET), Pune, 8-10, March 2017.
29. Synthesis and Characterizations of Zinc Oxide Nanoparticles, National Conference on Non- conventional Energy Sources for the Rural Development of India (NCNESRDI-2018) Uttamrao Patil Arts & Science Collage, Dahivel, 06 January 2018.
30. Synthesis and Characterizations of Zinc Oxide Nanowires, International Conference on Advances in Functional Materials (ICAM-2018) K.T.H.M. College, Nasik, 12-13 January, 2018.
31. A Study on Use of Information and Communication Technology (ICT) Tools by College Teachers in NAAC Work, National Conference on Sustaining Quality: NAAC New Guidelines- 2017, Ramanand Arya D.A.V College, Bandup (E), Mumbai, 17<sup>th</sup> February, 2018.
32. Chemical Sensor Based on Nanostructured ZnO Thick Film, International Symposium on Semiconductor Materials and Devices ISSMD-2018, Visvesvaraya National Institute of technology (VNIT), Nagpur, 30<sup>th</sup> November – 2<sup>nd</sup> December, 2018.
33. Hydrogen gas Sensor Based On Nanocrystalline Titanium Dioxide Thin Film Prepared By Simple Spray Pyrolysis Technique, International Symposium on Semiconductor Materials and Devices ISSMD-2018, Visvesvaraya National Institute of technology (VNIT), Nagpur, 30<sup>th</sup> November – 2<sup>nd</sup> December, 2018.
34. Gas sensing performance of pure and Ruthenium modified Cr<sub>2</sub>O<sub>3</sub> thick films, Two Days National Seminar on Recent Emergence in Science and Technology (REST-2019), Raver Parisar Shikshan Prasarak Mandal's Shri. Vitthalrao Shankarrao Naik Arts, Commerce and Science College, Raver (M.S.) and Seva Sadan Education Society's Seva Sadan Mahavidyalaya, Burhanpur (M. P.), 11<sup>th</sup> and 12<sup>th</sup> February 2019.
35. Effect of iron doping on structural, microstructural and gas sensing properties of nanocrystalline ZnSnO<sub>3</sub> thin films prepared by spray pyrolysis techniques, Two Days National Seminar on Recent Emergence in Science and Technology (REST-2019), Raver Parisar Shikshan Prasarak Mandal's Shri. Vitthalrao Shankarrao Naik Arts, Commerce and Science College, Raver (M.S.) and Seva Sadan Education Society's Seva Sadan Mahavidyalaya, Burhanpur (M. P.), 11<sup>th</sup> and 12<sup>th</sup> February 2019.
36. Preparation, characterization of nanostructured ZnO powder and sensing performance 15

- of its thick film sensor, National Conference on Material Science: Advancement and Innovations (NCMSAI-2019), Late Karmveer Dr. P.R. Ghogre Science College, Dhule. (M.S.) 20<sup>th</sup> February, 2019.
37. Hydrogen gas sensing properties of Titanium Di Oxide thin films by Simple Spray Pyrolysis, National Conference on Material Science: Advancement and Innovations (NCMSAI-2019), Late Karmveer Dr. P.R. Ghogre Science College, Dhule. (M.S.) 20<sup>th</sup> February, 2019.
  38. Role of NAAC in Reforming Higher Education, National Seminar on National Education Policy -2019), KBC North Maharashtra University, Jalgaon 26<sup>th</sup> June, 2019.
  39. Use of Physics Concepts in Upgradation of Indian knowledge Tradition, National Conference on Indian Knowledge Tradition: Education and Research, Bhartiya Vichaar Manch and Swami Vivekanad Education and Research Center, KBC NMU., Jalgaon Dist. Jalgaon, 21<sup>st</sup> August 2019.
  40. Studies on ultrasonically sprayed nanostructured ZnO Powder, One Day National Conference on Emerging Trends in Physical Sciences and Chemical Sciences, Shirish Madhukarrao Chaudhari College, Jalgaon Dist. Jalgaon, 18<sup>th</sup> January 2020.
  41. Recent Development and Scope of Transition Metal Oxide Based Cathode Materials-A Review, One Day National Conference on Emerging Trends in Physical Sciences and Chemical Sciences, Shirish Madhukarrao Chaudhari College, Jalgaon Dist. Jalgaon, 18<sup>th</sup> January 2020.
  42. Magnetron Sputtering: A Review of Recent Developments and Applications, One Day National Conference on Emerging Trends in Physical Sciences and Chemical Sciences, Shirish Madhukarrao Chaudhari College, Jalgaon Dist. Jalgaon, 18<sup>st</sup> January 2020.
  43. Chromogenic Sensing Potency of AZO-Compounds for Cyanide Ion- A Review, One Day National Conference on Emerging Trends in Physical Sciences and Chemical Sciences, Shirish Madhukarrao Chaudhari College, Jalgaon Dist. Jalgaon, 18<sup>st</sup> January 2020.
  44. Preparation and Characterizations of Zinc Oxide Nanoparticles, One Day National Conference on Nanostructured and Amorphous Materials: Synthesis, Characterization and Application, Moolji Jaitha College, Jalgaon Dist. Jalgaon, 28<sup>st</sup> - 29<sup>th</sup> February 2020.
  45. Synthesis of Sn doped TiO<sub>2</sub> thin films and their application to H<sub>2</sub> gas sensing properties, One Day National Conference on Nanostructured and Amorphous Materials: Synthesis, Characterization and Application, Moolji Jaitha College, Jalgaon Dist. Jalgaon, 28<sup>st</sup> -29<sup>th</sup>February 2020.
  46. Synthesis of ZnO nanoparticles for energy storage applications, One Day International Conference on Clean Energy Conservation and Storage Technologies, Pancham Khemraj Mahavidhyalaya, Sawantwadi Dist. Dondhudurg 30<sup>th</sup> April 2020.
  47. Participated in, International E-Conference on “Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World”, Government Vidarbha Institute of Science & Humanities, Amravati, India on 15<sup>th</sup> - 17<sup>th</sup> <sup>16</sup>



May, 2020.

### **Participation in Seminars/Workshops: 31**

1. C. V. Raman Memorial Seminar-2007, N.M.U. Jalgaon, 28<sup>th</sup> February 2007.
2. Training on “How brilliant the Keithley meters are!” Keithley Office, Bangalore, 11<sup>th</sup> - 12<sup>th</sup> October 2007.
3. One day workshop on Acquaintance Programme of IUAC, N.M.U. Jalgaon, 30<sup>th</sup> April 2008.
4. Workshop on Patent Awareness. TIFAC, DIST (Govt. of India) New Delhi, N.M.U. Jalgaon, 4<sup>th</sup> August 2008.
5. One day Seminar on Semiconductor Gas Sensors. Department of Physics, A.C.S College, Nandagaon, 27<sup>th</sup> December 2008.
6. One day University Level Seminar on Academic Performance Indicator for Apprising Teachers’ Yearly Performance- A key to maintain and sustain standards in Higher Education, Pratap College, Amalner, 24<sup>th</sup> April 2011.
7. One day University Level Workshop on First Year B.Sc. Physics syllabi revision, S. G. Patil Arts, Science & Commerce. College, Sakri, Dist. Dhule, 27<sup>th</sup> March 2012.
8. Workshop on BARCODE, North Maharashtra University, Jalgaon, 5<sup>th</sup> February 2013.
9. Syllabus Framing Workshop on S.Y.B.Sc. Physics, G. D. M. Arts, K.R.N. Commerce and M.D. Science College, Jamner, Dist. Jalgaon, 10<sup>th</sup> February 2013.
10. One day Workshop organized on “Water Conservation for Sustainable Agricultural”, Jain Irrigation, Arts, Commerce and Science College, Bodwad, 31<sup>th</sup> March 201.
11. Workshop of Principal / Director & Student Welfare Officer, Nanasaheb Y. N. Chavan Arts, Science & Commerce College, Chalisgaon 3<sup>rd</sup> July 2013.
12. Workshop of Principal / Director & Student Welfare Officer, North Maharashtra University, Jalgaon, 7<sup>th</sup> July 2014.
13. Workshop of Principal / Director & Student Welfare Officer, Arts College, Marwad, 28<sup>th</sup> August 2015.
14. One day work shop on “Academic Performance Indicator and Performance Based Aprisal System” Bhusawal Arts, Science and P.O. Nahata Commerce College, Bhuswal 30<sup>th</sup> August 2015.
15. Workshop on “Second Year B.Sc. Physics syllabi revision” Uttamrao Patil Arts & Science College, Dahiwel, Dist. Dhule, 14<sup>th</sup> January 2016.
16. Workshop of Principal / Director & Student Welfare Officer, North Maharashtra University, Jalgaon, 6<sup>th</sup> September 2016.
17. Workshop of “On Screen Evaluation”, Bhuswal Arts, Science & P.O. Nahata Commerce College, Bhuswal, 10<sup>th</sup> October 2016.
18. National workshop on “Technological Transformation For Rular Issues and Challenges”, Jain Irrigation & Arts, Commerce and Science College, Bodwad, 5<sup>th</sup> -6<sup>th</sup> 17

*December 2016.*

19. One Day workshop on “URKUND” (Anti Plagiarism Software) organized by Knowledge Resource Centre and Internal Quality Assurance Cell (IQAC), North Maharashtra University, Jalgaon, 7<sup>th</sup> July, 2017.
20. University Level Conference on Higher Education in Indian Perspective, North Maharashtra University, Jalgaon, 20<sup>th</sup> March, 2018.
21. Workshop on “First Year B.Sc. Physics syllabi revision” Arts, Commerce & Science College, Taloda, Dist. Dhule, 30<sup>th</sup> June 2018.
22. Maharashtra State Bureau of Textbook Production and Curriculum Research (Balbharti), Pune organized orientation workshop, Rambhau Mhalgi Prabodini, Bhander, Dist. Thane, 23<sup>rd</sup> July -25<sup>th</sup> July 2018.
23. University level One Day Workshop on “Choice Based Credit System” Bhusawal Arts, Science and P.O. Nahata Commerce College, Bhuswal, 3<sup>rd</sup> August 2018.
24. 2<sup>nd</sup> INFO DAY CABSIN awareness Workshp on Capacity Building: New Mantra for Higher Education” Bhusawal Arts, Science and P.O. Nahata Commerce College, Bhuswal, 2<sup>nd</sup> November 2018.
25. NAAC Accreditation Awareness Workshop Sponsored By National Assessment and Accreditation Council (NAAC), Bangalore at Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, 17<sup>th</sup> January 2019.
26. One day Workshop on Syllabus Restructuring of S.Y.B.Sc. Physics, Dhanaji Nana Mahavidhylya, Faizpur, 27<sup>th</sup> February 2019.
27. Two day Workshop on Role of Teacher in Higher Education, Pratap Philosophy Center, Amalner, Dist. Jalgaon, 16<sup>h</sup> – 17<sup>th</sup> March 2019.
28. One day Workshop for Research Guides, S.P.D.M. Arts, SBBSHD Commerce & Shirpur Marchant’s Association Science College, Shirpur, Dist. Dhule, 7<sup>th</sup> February 2020.
- I. Two day Online Workshop on Curriculum Development in Physics at T.Y.B.Sc. (CBSC), S. Patil Arts, G. B. Patel Science and S. T. K. V. S Commerce College, Shahada, Dist. Nandurbar, 15<sup>th</sup>- 16<sup>th</sup> May 2020.
29. Workshop of National Service Scheme organized by Kavayitri Bhinanbai Chaudhari North Maharashtra University, Jalgaon and Arts, Commerce and Science College, Dharangaon, Dist. Jalgaon, 24<sup>th</sup>- February 2022.
30. Proceedings of the Syllabus restructuring workshop at F.Y.B.Sc. (CBSC Pattern) Physics Course at Nanasaheb Y. N. Chavan Arts, Science and Commerce College, Chalisgaon, Dist. Jalgaon, 11<sup>th</sup> April 2022.

**Workshops/ Conferences / Seminar / Organized as Convener: 01**

1. Student Welfare Department, North Maharashtra University, Jalgaon Sponsored Jalgaon District level Two day “Daily Wages and Business Guidance workshop”, Arts, Commerce and Science College, Bodwad, 7<sup>th</sup> - 8<sup>th</sup> December 2016.

**Workshops/ Conferences / Seminar / Organized as Member of Organizing Committee: 17**

1. National Conference on Recent Advances in Materials Synthesis and Characterization” (NCRAMS-2011), D. D. N. B. College, Bhusawal, 22<sup>nd</sup> - 23<sup>rd</sup> January 2011.
2. National Conference on “Indian Development In Recent And Ideal Semiconductors For Novel Applications” (NC IDRIS - 2012), Shri. D. H. Agrawal, Shri. Rang Avadhoot Commerce and Shri. C. C. Shah & M. G. Agrawal Science College, Navapur, Dist. Nandurbar, 6<sup>th</sup> - 7<sup>th</sup> October 2012.
3. One day Workshop organized on “Water Conservation for Sustainable Agricultural”, *Jain Irrigation, Arts, Commerce and Science College, Bodwad, 31<sup>th</sup> March 2013*
4. National workshop on “Technological Transformation For Rular Issues and Challenges”, *Jain Irrigation & Arts, Commerce and Science College, Bodwad, 5<sup>th</sup> -6<sup>th</sup> December 2016.*
5. National Conference on “Role of Mathematics in Science Technology”, *Arts, Commerce and Science College, Bodwad, 17<sup>th</sup> December 2016.*
6. National Conference on “Samkalin Hindi Gazal”, *Maharashtra Rajya Hindi Sahitya Academy Mumbai, Sanskrutik Karya Nideshalaya, & Arts, Commerce and Science College, Bodwad, 20<sup>th</sup> August 2017.*
7. National Conference on Non-conventional Energy Sources for the Rural Development of India (NCNESRDI-2018) *Uttamrao Patil Arts & Science Collage, Dahivel, 06<sup>th</sup> January, 2018.*
8. Scientific Advisory Board Committee Member, 2<sup>nd</sup> International Conference and Exhibition on Materials & Engineering. Nov.19-21 2018, *San Diego, USA.*
9. National Conference on “Rular Womans: Heath and Security Awarness”, *Maharashtra State Woman Commission, Mumbai and Arts, Commerce and Science College, Bodwad, 13<sup>th</sup> October 2018.*
10. 5<sup>th</sup> International Symposium on Semiconductor Materials and Devices (ISSMD-2018), *VNIT, Nagpur, 30<sup>th</sup> November to 2<sup>nd</sup> December 2018.*
11. National Conference of Maharashtra State Commerce Associations on Commerce and Management in 21<sup>st</sup> Century, *Arts, Commerce and Science College, Bodwad, 12<sup>th</sup> -13<sup>th</sup> January 2019*
12. Workshop on Research Methodology for Science Post Graduate Students, *Arts, Commerce and Science College, Bodwad, 22<sup>nd</sup> January 2019.*
13. National Conference on Material Science: Advancement and Innovations (NCMSAI- 2019), *Late Karmveer Dr. P.R.Ghogre Science College, Dhule. (M.S.) 20<sup>th</sup> February, 2019.*
14. International Conference and Exhibition on Materials & Engineering (Materials Houston2019), September 26-28, 2019, *Hilton Garden Inn Houston Westbelt, Houston, USA.*
15. 21<sup>st</sup> Annual Congress on Nano Technology (NANO-2019), October 07-08, 2019, Osaka, Japan.
16. Challenges in Life Sciences and Agrobased Industries for Rural Development (CLSAIRD), December 21, 2019, *Arts, Commerce and Science College, Bodwad,*
17. Workshop on Research Methodology for Science Post Graduate Students, *Arts, Commerce and Science College, Bodwad, January 22, 2020*

### **Online / Offline Scientific Talk /Speech /Lecture Delivered at International /National Symposiums / Conferences / STC / FDP / etc. : 08**

1. **Chemical Sensor** at International Symposium on Semiconductor Materials and Devices ISSMD-2018, Visvesvaraya National Institute of technology (VNIT), Nagpur, 30<sup>th</sup> November – 2<sup>nd</sup> December, 2018.
2. Scientific Talk delivered on “**Preparation of nanostructured ZnO Powder and its use as a Thick Film Chemical Sensor**” at the International E- Conference on Advanced Materials Science and Graphene Nanotechnology (NANO 2020), Organized by The University of Manchester, United Kingdom, 25<sup>th</sup> & 26<sup>th</sup> November 2020.
3. Keynote Speech delivered on “**Preparation of Nanostructured ZnO Powder and its use as a thick film chemical sensor**” at the Online Conference on Chemistry and Nanoscience, Organized by Inovine Scientific Committee USA, Turkey and Russia, 25<sup>th</sup> & 26<sup>th</sup> January 2021.
4. Lecture delivered on “**Basics of X-ray Diffractogram**” at Short Term Course on Advanced Materials Characterizations organized by Genesin Educational Impression, Roorkee, Uttarkhand, India, 23<sup>rd</sup> -24<sup>th</sup> April 2021.
5. Speech delivered on “**Guidance for Psychological Counseling for COVID-19 Positive Patients and Their Family Members**” at Online Workshop organized by National Service Scheme, Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, Maharashtra, India in Association with Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, 14<sup>th</sup> May 2021.
6. Speech delivered on “**Detection of Hazardous Gases Using Platinum Loaded Nanostructured ZnO Thick Films**” at Webinar on Materials Science and Nanotechnology - 4<sup>th</sup> Edition, June 7, 2021, Malvern PA 19355, USA
7. Speech delivered on “**Nano Zinc Oxide Thick Films as Gas Sensor**” at International Conference and Exhibition on Materials & Engineering (Materials Seoul 2021), June 08-10, 2021, Seoul, South Korea.
8. Speech delivered on “**Nanostructured ZnO Sensor**” at 27<sup>th</sup> International Conference on Advanced Materials, Nanotechnology and Engineering (Webinar), June 21-22, 2021.
9. Speech delivered on “**Nanotechnology: Social Aspects**” at Webinar organized by Department of Physics, Smt. G. G. Khadse College, Muktainagar, 19<sup>th</sup> June, 2021.
10. Speech delivered on “**Nano Pt-ZnO as DMMP Sensor**” at Webinar on Materials Science & Nanotechnology, September 17-18, 2021, Georgia Southern University, USA

### **Session Chair: 03**

1. International Conference on Advances in Functional Materials (AFM-2015), Stony Brook University, New York, U. S. A. held during June 29<sup>th</sup> – July 3<sup>rd</sup> 2015.
2. International Symposium on Semiconductor Materials and Devices ISSMD-2018, Visvesvaraya National Institute of technology (VNIT), Nagpur, 30<sup>th</sup> November – 2<sup>nd</sup> December, 2018.
3. National Level Webinar on “Advances in Spectral Analysis and Nanotechnology for Chemical and Physical Sciences”, Dadasaheb Devidas Namdeo Bhole College, Bhusawal, Dist: Jalgaon, 2<sup>nd</sup> July 2020.

### **Convener: 01**

1. One session of National workshop on Technological Transformation For Rural Issues and Challenges, *Jain Irrigation, Arts, Commerce and Science College, Bodwad, 5<sup>th</sup> -6<sup>th</sup> December 2016.*

### **Paper Presented in National/International Webinars/Web Conference/e- Workshop: 05**

1. Synthesis of ZnO nanoparticles for Energy Storage Applications, one day International Conference on “Clean Energy Conversion and Storage Technology” organized by Shri Pancham Khemraj Mahavidyalaya, Sawantwadi, 30<sup>th</sup> April 2020.
2. Pt-Activated Nano ZnO Thick Films as DMMP Sensor, one day International e-Conference on “Ethical and Quality Aspects in Nanoscience and Nanotechnology Research” (ICEQANNR-2020) organized by Department of Physics, Vasant Rao Naik Arts, Commerce and Science College, Shahada in collaboration with Kavayitri Bhabinabai Chaudhari North Maharashtra University, Jalgaon, 20<sup>th</sup> June 2020.
3. Studies on Zinc Oxide Nanowires, International Materials Science Conference, organized by School of Physical Sciences, Kavayitri Bhabinabai Chaudhari North Maharashtra University, Jalgaon, 18<sup>th</sup> -20<sup>th</sup> March 2020.
4. Sensing performance of CWA simulants using Pt-ZnO thick films, International Conference on Nanomaterials & nanotechnology (ICONN-2020), organized by Department of Physics (UDP) Sciences, University of Mumbai, Mumbai, 25<sup>th</sup> -27<sup>th</sup> March 2020. **(First Prize Award)**
5. Studies on ZnO Sensors, National e-Conference on Recent Trends in Chemical and Physical Sciences (NCRTCPS-21), organized by Department of Chemistry, Physics, Electronics, Mathematics and Computer Science, S. V.S's Dadasaheb Rawal College, Dondaicha, 20<sup>th</sup> September 2021.

### **Leadership Talk / Lecture Series Attended: 02**

1. Leadership Talk with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation) held on 20<sup>th</sup> Jun 2020 by MHRD's Innovation Cell.
2. UGC-STRIDE Online Lecture Series Programme organized Department of Physics, Shivaji University, Kolhapur, 07<sup>th</sup> -10<sup>th</sup> April, 2021.

### **Webinars / Online Workshop Organized as Convener: 06**

1. National Webinar on “Digital Transformation: eClassrooms & Learning Management System”, Arts, Commerce and Science College, Bodwad, 17<sup>th</sup> July 2020.
2. National Online Workshop on “Social Entrepreneurship, Swachhata and Rural Engagement for Higher Educational” Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, Maharashtra, India in Association with Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, 12<sup>th</sup> October 2020.
3. Online Workshop on “Guidance for Psychological Counseling for COVID-19 Positive Patients and Their Family Members” National Service Scheme, Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, Maharashtra, India in Association with Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, 14<sup>th</sup> May 2021.
4. Online Workshop on “Beat COVID – Helpers Skills” National Service Scheme, Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, Maharashtra, India in Association with Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, 05<sup>th</sup> June 2021.

5. Online Workshop under Mazi Vasundhara Abhiyaan on “Human Interference in Nature”, National Service Scheme, Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, 13<sup>th</sup> September 2021
6. National Webinar on “Rural Entrepreneurship” National Service Scheme, Arts, Commerce and Science College, Bodwad, Dist. Jalgaon, Maharashtra, India in Association with Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, 23<sup>rd</sup> February 2022.

**Online Faculty Development Programme Organized as Coordinator: 01**

1. Five Days Online Faculty Development Programme on “**The Overview of the Indian Capital Markets and Indian Economy**” Jointly Organized by Arts, Commerce and Science College, Bodwad, Dist. Jalgaon and Bombay Stock Exchange Brokers’ Forum, Mumbai, India, 26<sup>th</sup> to 30<sup>th</sup> October 2020.

**Online Conference, Workshop, Webinars, Event, etc. Organized as Member of Organizing Committee: 10**

1. National Level Webinar on “Soft Skill and Creative Thinking in Chemical and Physical Sciences”, Arts, Commerce and Science College, Yawal, 8<sup>th</sup> June 2020.
2. International Conference and Exhibition on Materials & Engineering (Materials Seoul 2020), June 08-10, 2020, Seoul, South Korea.
3. National Level Webinar on “Advances in Spectral Analysis and Nanotechnology for Chemical and Physical Sciences”, Dadasaheb Devidas Namdeo Bhole College, Bhusawal, Dist: Jalgaon, 2<sup>nd</sup> July 2020.
4. NSS Week Celebration, National Service Scheme, Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon, 24<sup>th</sup> September to 02<sup>nd</sup> October 2020.
5. Online Workshop on “Maze Kutumbh Mazi Jababdari- Potential hazardous and precautionsto take care of Covid-19” organized by NSS KBCNMU, Jalgaon and Smt. P. K. Kotecha Woman’s College, Bhusawal, 18<sup>th</sup> October 2020.
6. Online Workshop on “Maze Kutumbh Mazi Jababdari- Potential hazardous and precautionsto take care of Covid-19” organized by NSS KBCNMU, Jalgaon and C. G. Patil Arts, Science and Commerce College, Sakri, 23<sup>rd</sup> October 2020.
7. Workshop on “COVID-19 Vaccination: Understanding, Misunderstanding and Awaress” organized by NSS KBCNMU, Jalgaon and C. G. Patil Arts, Science and Commerce College, Sakri, 13<sup>th</sup> May 2021.
8. International Conference and Exhibition on Materials & Engineering (Materials Seoul 2021), June 08-10, 2021, Seoul, South Korea.
9. International Conference on “Fluid Dynamics & Fluid Mechanics”, August 25-26, 2021, London, UK
10. 2<sup>nd</sup> International Conference on Material Science and Engineering, Dubai, UAE, November 21-22, 2022.

**Participation in National / International Webinars / Web Conference / e-Workshop: 129**

1. Webinar on “Learning Management System”, Bombay Teachers Training College, Colaba, Mumbai, 2<sup>nd</sup> May 2020.
2. Webinar on “Mendeley-Reference Management Tool”, Bombay Teachers Training College, Colaba, Mumbai, 2<sup>nd</sup> May 2020.

3. National Webinar on “Natural Resources and Their Management strategies in Post Corona Period- Global and National Challenges”, Departments of Mechanical and Civil Engineering, Sri Aurobindo Institute of Technology, Indore, M.P. in association with ACM Indore Chapter and Indian Geotechnical Society on 08<sup>th</sup> May 2020.
4. International Webinar on “Indian Cultural in Pandemic Situation”, Ramanujan College, Delhi University, New Delhi, 11<sup>th</sup> May 2020.
5. Webinar on “NAAC: Systematic Data Organization and Presentation”, Vidyalkar Institute of Technology, 16<sup>th</sup> May 2020.
6. Webinar on “Awareness of Government Examinations”, KIT- Centre for Industry Institute Interaction, KIT 21<sup>th</sup> May 2020.
7. One Day Online National Workshop on “Role of IQAC in Assessment and Accreditation Process”, S. I. Patil Arts, G. B. Patel Science and S. T. K. V. S Commerce College, Shahada, Dist. Nandurbar, 22<sup>nd</sup> May 2020.
8. National Level Webinar on “Post Covid Academic Scenario”, North Maharashtra University and College Teachers Association, Jalgaon (N-MUCTA), 18<sup>th</sup> – 22<sup>nd</sup> May 2020.
9. International Webinar on “Arts of Writing Research Review/ Articles for Publishing in Peer Reviewed Journals”, MEMS College, Erumely 25<sup>th</sup> May 2020.
10. Webinar on “Exam From Home & Evaluation From Home”, Dr. Babasaheb Ambedkar College of Arts & Commerce Nagsenvana, Aurangabad 27<sup>th</sup> May 2020.
11. International e-Seminar on “Menstrual Hygiene: Textual and Contextual Perspective”, Expression in Language and Arts Foundation, Lucknow, Uttar Pradesh, India, 28<sup>th</sup> May 2020.
12. Webinar on “Research Opportunities in the field of Technology” Dr. Daulatrao Aher College of Engineering, Karad, Maharashtra, 28<sup>th</sup> May 2020
13. One Day National E-Workshop on “THE ROLE OF NON-TEACHING IN NAAC ACCREDITATION, IQAC, Bapumiya Sirajoddin Patel Arts, Commerce and Science College, Pimpalgaon Kale, 29<sup>th</sup> May 2020.
14. International Webinar on “Planning and Implementation of Natural Resources Conservation”, Teerthanker Mahaaveer University, Moradabad, 30<sup>th</sup> May 2020.
15. Conference on “The New Normal Education post COVID-19”, T4. Education, 30<sup>th</sup> May 2020.
16. National Webinar on “Exam from Home & Evaluation From Home in the wake of COVID- 19”, Zulal Bhilajirao Patil College, Dhule, 30<sup>th</sup> May 2020.
17. International Web Conference on “Impact of COVID-19 on Education System”, Dr. Babasaheb Ambeskar Marthwad University, Aurangabad, 30<sup>th</sup> May 2020.
18. International Webinar on “THIN-FILM TECHNOLOGIES IN OUR DAILY LIFE”, PG and Research Department of Physics, Nadar Mahajana Sangam S. Vellaichamy Nadar College, Nagamalai, Madurai, Tamil Nadu, India, 30<sup>th</sup> May 2020.
19. National Webinar on “Exam From Home : An Alternative Assessment and Evaluation Model in the wake of COVID-19”, Jawahar Arts, Science & Commerce College, Anadur, Tq. Tuljapur, Dist. Osmanabad (MS), 03<sup>rd</sup> June 2020.

20. National Webinar on “Role of IQAC in Quality Sustenance”, Smt. Kasturbai Walchand College (Arts & Science) Sangli, 03<sup>rd</sup> June 2020
21. National e-Seminar on Covid 19: Impact, Challenges and Innovations in Education Systems and NAAC, Late Karmaveer Dr. P. R. Ghogrey Science College Dhule, 3<sup>rd</sup> & 4<sup>th</sup> June 2020.
22. A Three Day Workshop: English is Easy, S. S. Agrawal Institute of Engineering and Technology, Navsari, Guajrat, India, 2<sup>nd</sup> & 4<sup>th</sup> June 2020.
23. Webinar on "Emerging Trends in Nano-Materials for Microwave, Integrated Electronics and Cancer Applications" Department of Basic Science & Humanities, GMR Institute of Technology, Rajam, Andhra Pradesh, 4<sup>th</sup> June 2020.
24. International E-Workshop on “Advanced Educational Techniques In Science & Humanities”, Vasantrao Naik Art’s, Science and Commerce College, Shahada, Dist. Nandurbar (MS), India, 2<sup>nd</sup> to 4<sup>th</sup> June 2020.
25. National Webinar on "ICT Enabled Teaching, Learning and Evaluation of English Language & Literature", Department of English and IQAC, Noble College (A), Machilipatnam, 5<sup>th</sup> June 2020.
26. International Webinar on “Pandemic Covid-19: Changes And Challenges In Society With Special Reference To Higher Education”, IQAC, NSS and YCMOU Study center, B. B. Arts, N. B. Commerce and B. P. Science College, Digras, Dist. Yavatmal, Maharashtra, India, 5<sup>th</sup> June 2020.
27. One Day National Level Virtual Online Conference on Human Interference on Environment (HIE-2020), Government First Grade College, Tumkur, Karnataka, India, 5<sup>th</sup> June 2020.
28. National Webinar on Intellectual Properties Right, SIES College of Arts, Science and Commerce, Sion West, 6<sup>th</sup> June 2020.
29. International Webinar on "Emerging Technologies to Shape the Future", Department of Computer Applications, A.V.C. College of Engineering, Mannampandal, Mayiladuthurai, Nagapattinam District, Tamilnadu, 6<sup>th</sup> June 2020.
30. National Webinar on Soft Skills, Government Degree College, Ichapuram, Sikakulam, Andhra Pradesh, 7<sup>th</sup> June 2020.
31. International Webinar on "Nanomaterials for Smart and Sustainable Energy Solutions", Department of Physics and IQAC, Mahatma Phule Arts, Science and Commerce College, Panvel, Dist. Raigad, 8<sup>th</sup> June 2020.
32. National Level Webinar on “Soft Skill and Creative Thinking in Chemical and Physical Sciences”, Arts, Commerce and Science College, Yawal, 8<sup>th</sup> June 2020.
33. National e-Seminar on "Latest Trends in Nano Materials Synthesis, Advanced Microprocessors and Challenges", Department of Electronics, Physics and IQAC, Late Karmaveer Dr. P. R. Ghogrey Science College, Dhule, 9<sup>th</sup> & 10<sup>th</sup> June 2020.
34. Webinar on "Life & Skills", Centre for Industrial Relations and Industry Academia Cell in association with Institution's Innovation Council, 13<sup>th</sup> June 2020.
35. Webinar on "Awareness on Fire Safety & Introduction on Fire Protection Systems", Department of Mechanical Engineering, Arulmurugan College of Engineering, 24



- Thennilai, Karur, 13<sup>th</sup> June 2020.
36. Two Day National Webinar on “The Role of National Service Scheme In the Preparedness Amidst Disasters” Regional Directorate of NSS, Pune, N.S.S. Cell Govt. of Maharashtra, Unicef, India & N.S.S. Department, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, 12<sup>th</sup>-13<sup>th</sup> June 2020.
  37. Webinar on "Emerging Oppurtunities in Industries & "Digi HR", Centre for Industrial Relations and Industry Academia Cell in association with Institution's Innovation Council, AVIT 14<sup>th</sup> June 2020.
  38. Webinar on "X-Ray Diffraction –Technology and Application in Pharmaceutical Sciences", R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, 15<sup>th</sup> June 2020.
  39. International Webinar on "The Psychological Impact of COVID-19 Panademic on Human Life", Allahabad School of Education, Sam Higginbottom University of Agricultural, Technology and Science, 15<sup>th</sup> -16<sup>th</sup> June 2020.
  40. One Day National e-Conference on “Assimilation of Knowledge on Recent Advances in Nanomaterials during COVID-19” Smt Radhabai Sarada Arts, Commerce & Science College, Anjangaon Surji, Dist. Amravati (MS), 16<sup>th</sup> June 2020
  41. Two Day National Interdisciplinary E- Conference on "COVID-19: Crisis, Effects, Challenges and Innovations", Faculty of Humanities, Commerce & Managements, Annasaheb Gundewar College, Katol Raoda, Nagpur, 16<sup>th</sup> -17<sup>th</sup> June 2020.
  42. Webinar on "Solar Energy-Current Scenario & Future Trends", Department of Mechanical Engineering, St. Joseph Institute of Technology, Chennai 17<sup>th</sup> June 2020.
  43. E-International Symposium on “Synthesis and Characterization of Smart Materials and Their Potential Applications”, University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, New Delhi-110078, India, 14<sup>th</sup> -17<sup>th</sup> June, 2020
  44. Live Online Workshop on “Innovative Product Design Using Arduino”,Atal Incubation Centre, Pondicherry Engineering College Foundation,17<sup>th</sup> June 2020.
  45. Physics Webinar "Extension Of Modern Periodic Table Towards Superheavy Metals – Indian Perspective", Smt Danamma Channabasaviah College Of Arts, Commerce & Science and Management Studies Kodiramasandra ,by-Pass,Kolar,17<sup>th</sup> June 2020.
  46. Webinar on "Online Students Registration, Admission, Online Fees Collection & Online Learning", MasterSoft ERP Solutions Pvt. Ltd. Nagpur, 18<sup>th</sup> June 2020.
  47. Webinar on "Foot Print of Electrical Vehicle in Current Automotive Industry", Department of Mechanical Engineering, St. Joseph Institute of Technology, Chennai 19<sup>th</sup> June 2020.
  48. National Online Seminar on “Applied Materials and Their Application”, Department of Physics and IQAC, Rajarshi Chhatrapati Shahu College, Kolhapur, 19<sup>th</sup> June 2020.
  49. Online Workshop "Assessment and Accreditation Process of NAAC", jointly organized by Internal Quality Assurance Cell (IQAC), Sangameshwar College, Sholapur, Rashtriya Uchcharat Shiksha Abhiyan (RUSA) and Department of Higher & Technical Education, Government of Maharashtra, 20<sup>th</sup> June 2020.

50. Webinar on “Converting Obstacles into Opportunities” Axis Global Institute of Industrial Training, Coimbatore, Tamil Nadu, 20<sup>th</sup> June 2020.
51. Online workshop on “Assessment and Accreditation Process of NAAC” Internal Quality Assurance Cell (IQAC), Sangameshwar College, Solapur, Rashtriya Uchchar Shiksha Abhiyan (RUSA) and Department of Higher & Technical Education, Government of Maharashtra, 20<sup>th</sup> June, 2020.
52. One Day International e-Workshop on “The Significance of Yoga in Pandemic” N.S.S. Cell Govt. of Maharashtra, Regional Directorate of NSS, Pune & N.S.S. Department, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, 21<sup>st</sup> June 2020.
53. A Webinar on “Research Paper Writing and Citation Manager”, Department of Computer Science and Engineering, P. E. S. College of Engineering, Aurangabad, 21<sup>st</sup> June 2020.
54. Science Academies’ Science Leadership Workshop, Central University of Pujab, Bathinda, 22<sup>nd</sup> -28<sup>th</sup> June 2020.
55. International Webinar on “Impact of Battery Electric Vehicles on Environment and Global Economy”, St. Joseph’s College of Engineering, Thanjaver, Tamil Nadu, 26<sup>th</sup> June 2020.
56. Webinar on “Robotics and Automation” Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore, 28<sup>th</sup> June 2020.
57. National Webinar on "GER in Education and Developing Countries", Punyashlok Ahilyadevi Holkar Solapur University, on 29<sup>th</sup> June 2020.
58. National Webinar on "Advances in Synthesis Techniques & Characterizations of Materials", Tuljaram Chaturchand College, Baramati, 24<sup>th</sup> -29<sup>th</sup> June 2020.
59. International E-Conference on “Emerging Advances in Mathematical and Physical Sciences (IECEAMPS)” Hindu College, Moradabad, 28<sup>th</sup> -30<sup>th</sup> June 2020.
60. One Day International Webinar on “Impact of COVID-19 on Teaching Learning Process: Challenges and Solutions”, Rajendra Academy for Teachers’ Education, 30<sup>th</sup> June 2020.
61. State Level Webinar on “Rural Development Through Community”, VVM’s S. G. Patil Arts, Commerce and Science College, Sakri, 30<sup>th</sup> June 2020.
62. National Level Webinar on “Advances in Spectral Analysis and Nanotechnology for Chemical and Physical Sciences”, Dadasaheb Devidas Namdeo Bhole College, Bhusawal, Dist: Jalgaon, 2<sup>nd</sup> July 2020.
63. National Workshop on “NIRF & AISHE: Role of Teachers”, Nevjabai Hitkarini College, Bramhapuri, 2<sup>nd</sup> July 2020.
64. National Workshop on “Google Apps for Education & Mobile”, Rajaram College, Kolhapur, 2<sup>nd</sup>-3<sup>rd</sup> July 2020.
65. National Level Webinar “Digital Transformation: eClassrooms & Learning Management System”, Sardar Vallabhbai Patel Arts & Science College, Ainpur, Tal. Raver, Dist.– Jalgaon, Maharashtra, 3<sup>rd</sup> July 2020
66. International Conference on “Recent Trends in Advanced Materials- (ICRTAM-2020)”, Jointly organized by Nevjabai Hitkarini College, Bramhapuri, Dist. 26

- Chandrapur, Late. B. S. Arts, Prof. N. G. Science & A. G. Commerce College, Sakharkheda Dist. Buldhana and Shri. Sant Gadge Maharaj Mahavidyalaya, Hingna, Dist. Nagpur held on 6th July, 2020.
67. National Level Webinar “Digital Transformation: eClassrooms & Learning Management System”, Shri. Surupsing Hirya Naik College of Education Navapur, Dist. Nandurbar, 7<sup>th</sup> July 2020.
  68. National Webinar “Introducing Skill Oriented Courses in Universities and Colleges (with Special References to NSQF)”, Akkineni Nageswara Rao College, Gudivada, 9<sup>th</sup> July 2020.
  69. Online International Conference on “Advanced Materials: Smart Future (OICAMSF-2020)”. Shri Lemdeo Patil Mahavidhyalaya, Mandhal, Tal. Kuhi, Dist. Nagpur & Shri Sant Gadge Maharaj Mahavidhyalaya, Hingna, Dist. Nagpur, 11<sup>th</sup> July 2020.
  70. Webinar on “Why Not? Episode-05, Digital Transformation & Future of Jobs” Axix Global Institute of Industrial Tanning, 11<sup>th</sup> July 2020.
  71. One Day International Webinar on “Role of Advance Materials for Optoelectronics Devices (RAM-OD 2020)” VVM’s S. G. Patil Arts, Commerce and Science College, Sakri, 11<sup>th</sup> July 2020.
  74. National e-Conference on “Progress in Material Science” Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi, Tal : Atpadi, Dist : Sangli (MS), 13<sup>th</sup> July 2020.
  75. Two Day Online workshop on "Waste Material Management and Uses" organised by Chitkara University Research and Innovation Network (CURIN) Chitkara University, Punjab, 13<sup>th</sup> to 14<sup>th</sup> July 2020.
  76. National Webinar on “Digital Transformation: eClassrooms & Learning Management System”, Arts, Commerce and Science College, Bodwad, 17<sup>th</sup> July 2020.
  77. Webinar on “Revised NAAC Assessment and Accreditation Process for Higher Education Institute”, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, 17<sup>th</sup> July 2020.
  78. International Web-Seminar on “Novel Application of Nanomaterials”, Prof. Dr. N. D. Patil Mahavidyalaya, Malkapur-Perid, Shahuwadi, Kolhapur, 18<sup>th</sup> July 2020.
  79. One Day University Level Webinar on ‘CBCS Syllabus’, Nehru Arts, Science, Commerce College & PG Centre, Ghantikeri, Hubli 580020, Karnataka, 24<sup>th</sup> July 2020.
  80. National Webinar on "Revised Accreditation Framework of NAAC", organised by Internal Quality Assurance Cell of Punyashlok Ahilyadevi Holkar Solapur University, Solapur (MS), India, 27<sup>th</sup> July 2020.
  81. One Day Multidisciplinary National Webinar on "Challenges and Significance of Human Right in Present Situations", organised by Arts, Commerce and Science College, Dhule, Maharashtra, India. 27<sup>th</sup> July 2020.
  82. Webinar on “Research and Sustainable Technologies (MRST)” organised by Maharashtra Academy of Sciences (MASc) in association with Centre for Materials for Electronics Technology (C-MET), Pune and Savitribai Phule Pune University (SPPU), Pune, 28<sup>th</sup> July 2020.

83. TEACH BIG' - The Five Day Online Workshop on "Tech-Tools for Teaching" on "Research and Sustainable Technologies (MRST)", organized by Internal Quality Assurance Cell of Peet Memorial Training College, Mavelikara, Kerala, 03<sup>rd</sup> -07<sup>th</sup> August 2020.
84. Online webinar session on "Faculty Development Programme – ICT best practices in institute" organised by MasterSoft ERP Solutions Pvt. Ltd. Nagpur, 04<sup>th</sup> August 2020.
85. National e- Conference on "Recent Trends on Advanced Materials & Environment (RTAME)" organised by DLS PG College, Bilaspur, Chhattisgrh, 05<sup>th</sup> August 2020.
86. One day national webinar on "Linking of Indian Academia with Industry" organised by Khalsa College, Patiala, 06<sup>th</sup> August 2020.
87. International E-Conference on "Multifunctional Advanced Materials (ICMAM-2020)" organised by Mahatma Gandhi Arts, Science & Late N. P. Commerce College, Armori, 07<sup>th</sup> August 2020.
88. International Webinar on "Innovation In Materials for Energy & Environment" organized by Maharashtra Academy of Sciences, Pune, Center for Materials for Electronics Technology, Pune and SSP. Mandal's C. T. Bora College, Shirur, 09<sup>th</sup> August 2020.
89. Webinar on "Impact of Tobacco on COVID-19" organized by Sambandh Health Foundation and KBC NMU, Jalgaon, 13<sup>th</sup> August 2020.
90. Workshop on "Astronomy and Astrophysics" organized by Department of Physics and IQAC, KTHM College, Nashik, 20<sup>th</sup> & 21<sup>st</sup> August, 2020.
91. One Day National Webinar on "New Education Policy 2020 and Challenges" organized by Dr. Babasaheb Ambedkar Mahavidyalaya, Amravati, Takshashila Mahavidyalaya, Amravati, Ramkrushna Mahavidyalaya, Darapur, 24<sup>st</sup> August, 2020
92. National Webinar on "Education and Digital Era" organized School of Computational Sciences PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR, 28<sup>st</sup> August, 2020
93. One Day National Webinar on "National Education Policy 2020" organized by VES's Sarvajanik Arts and Commerce College, Visarwadi, 04 September 2020.
94. One Day National Webinar entitled "Promotional Avenues for Teachers in Higher Education: CAS Regulations- 2018" organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD on 5<sup>th</sup> September 2020
95. One Day National Webinar on "National Education Policy 2020: Setting Path To Enhancing Quality Education" organized by Internal Quality Assurance Cell (IQAC), Rajkiya Mahila Snatkottar Mahavidhyalaya, Banda – 210001, U.P, 05<sup>th</sup> September 2020.
96. One Day National Webinar on "Indian Education Policy 2020: The Era Education" organized by Bundelkhand Janta Degree College, Palina, Jhansi 06<sup>th</sup> September 2020.

97. Online webinar session on "Faculty Development Programme – ICT best practices in institute" conducted by MasterSoft ERP Solutions Pvt. Ltd. Nagpur, 08<sup>th</sup> September 2020.
98. Three Day International Interdisciplinary e Conference on “Food Politics in Language,Literature and Cinema” organized K.M.Agrawal College of Arts,Commerce & Science,Kalyan(w), 8-10 September 2020
99. One day Online National Webinar on “Effective ways of Stress Elimination”, organized by Bhusaval Arts, Sci. and P.O.Nahata Comm.College, Bhusaval, Dist .Jalgaon (M.S.), India, 425201, 09<sup>th</sup> September 2020.
100. National Webinar on “MSMEs and Role of Universities” organized organized by Internal Quality Assurance Cell of Punyashlok Ahilyadevi Holkar Solapur University, Solapur (MS). 12 September 2020.
100. Two Days Online State Level Abyasvarg, organized by Akhil Bharatiya Rashtriya Shaikshik Mahasangh, Higher Education, Maharashtra State, 12 & 13 September 2020.
101. International Webinar Cum Mass Plantation Drive for Bamboo Mission: The sustainable Initiative towards Atmanirbhar Bharat organized by NSS KBC NMU, Jalgaon and Arts, Commerce and Science College, Dhadgaon Tal. Akrani, Dist. Nandurbar, 19 & 20 September 2020.
102. National Webinar on “Implementation of National Education Policy 2020” organized by Internal Quality Assurance Cell of Punyashlok Ahilyadevi Holkar Solapur University, Solapur (MS), 25<sup>th</sup> September 2020.
103. One Day online workshop on “Social Entrepreneurship, Swachhta & Rural Engagement for Higher Educational Institutions” organized Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, 27<sup>th</sup> September 2020.
104. National Webinar “Pandit Dindyalji: Ekatom Manvdarshan” organized North Maharashtra University and College Teachers Association, Jalgaon, 27<sup>th</sup> September 2020.
105. National Webinar on “Women and Science: Facts and Prejudice” organized Department of Physics, Assabah College of Arts and Science Valayankulam and Department of Physics, Christ College (Autonomous) Irinjalakuda, 30<sup>th</sup> September 2020.
106. Webinar on “Aatmnirbhar Bharat and New Education Policy” organized Devgiri Prant, Shiksha Sanskruti Utthan Nyaas New Delhi, 04<sup>th</sup> October 2020.
107. International Webinar on “Leadeanship for Global Peace & Education” organized RCEAM, SKRAU-Bikaner, WCPA, CCEAM-Indian Chapters and Smt. K. B. Dave College of Education, Pilvai 05<sup>th</sup> to 10<sup>th</sup> October 2020.
108. National Webinar on “Dr. Babasaheb Ambedkar and Constitution of India” organized Sardar Vailbhbhai Patel Arts & Science College, Ainpur, 09<sup>th</sup> October 2020.
109. Science Connect: Langmuir, presented by ACS Science Talk 10<sup>th</sup> to 12<sup>th</sup> October 2020.
110. University Level Workshop on “COVID-19: Potential Dangers and Precautions”

organized by KBC NMU, Jalgaon and P. K. Kotecha Mahila College, Bhusawal, 10<sup>th</sup> to 12<sup>th</sup> October 2020.

111. University Level Workshop on “COVID-19: Potential Dangers and Precautions” organized by KBC NMU, Jalgaon and S. G. Patil Arts, Commerce and Science College, Sakri, 23<sup>rd</sup> October 2020.
112. National Webinar on “Role of AAC in Higher Education” organized Vaidyanath College, Parli-Vajinath, Dnyanopasak Mahavidyalaya, Prabhani, Shivajai College, Renapur, Shri Govindrao Munghate College, Kurkheda and Yogeshwari Mahavidhyalaya, Ambajogai, 09<sup>th</sup> September 2020.
113. Webinar session on “ICT Enablement in Higher Education” organized by Shri Shivaji Vidya Prasark Sanstha’s Bhausahab NS Patil Arts, and MFMA Commerce College Dhule & Master Soft ERP Nagpur, 12 November 2020.
114. 4<sup>th</sup> National Teacher’s Congress, organized by MIT, Pune, 15<sup>th</sup> -18<sup>th</sup> December 2020.
115. Young Scientist Conference (YSC) as a part of India International Science Festival 2020 (IISF 2020) organized by Ministry of Science and Technology, Ministry of Earth Sciences, and Ministry of Health and Family Welfare, Govt. of India in collaboration with Vijnana Bharti (VIBHA) by Council of Scientific & Industrial Research (CSR), 22<sup>nd</sup> -25<sup>th</sup> December 2020.
116. Webinar on “International Seminar Series on Nanotechnology for Environmental and Sustainability” organized by Department of Medical Physics, Centre for Interdisciplinary Research, D. Y. Patil Education Society (Deemed to be University), Kolhapur, 12<sup>th</sup> -13<sup>th</sup> January 2021.
117. Participated in “Vishv Marathi Samelan 2021 (Online)”, organized by Vishv Marathi Parishad, 28<sup>th</sup> -31<sup>th</sup> January 2021.
118. Participated in “The India Universities Forum” in partnership with Kalinga Institute of Industrial Technology. 10<sup>th</sup> & 11<sup>th</sup> February, 2021.
119. National Seminar on “Intellectual Property Rights” organized by Saradar Vallabhbbhai Patel Arts & Science College, Ainpur, 16<sup>th</sup> March, 2021.
120. International Conference on “Fundamental and Applied Sciences (ICFS-2021) ” organized by Faculty of Science and IQAC, Hazarimal Somani College of Arts and Science, Shri Manubhai Maneklal Sheth Junior College of Arts and Science and Jayaramdas Patel College of Commerce and Management Studies, K. M. Munshi Marg, Chowpatty, Mumbai- 400007(Affiliated to University of Mumbai), 24<sup>th</sup> -26<sup>th</sup> March, 2021.
121. SCIENCE MANTHAN-2021 organized P D Patel Institute of Applied Sciences (PDPIAS), CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), Changa - 388421, Gujarat, India, 08<sup>th</sup> -09<sup>th</sup> April, 2021.
122. Webinar on “The Exam System – Have we lost our path?” organized by Teach Us and ShethNKTT College, Thane, 24<sup>th</sup> April, 2021.
123. Webinar on “IQAC Coordinator Meet” organized by MasterSoft ERP Solutions Pvt. Ltd.Nagpur, 18<sup>th</sup> May, 2021.
123. Webinar on “Photonics: Trends, Prospects and Opportunities” organized by School 30

of Physics, Dr. Vishwanath Karad MIT World Peace University, Pune, 18<sup>th</sup> May, 2021.

124. Two Day National Webinar on “Mental Health and Counseling during Covid and Post-covid Situation” organized by ARB Garud Arts, Commerce and Science College, Shendurni in collaboration with Nehry Yuva Kendra, Jalgaon, Thane, 19<sup>th</sup> May, 2021.
125. National Seminar on “Development of functionally graded material through directional Solidification” organized by Department of Mechanical Engineering, R. R. Institute of Technology, Bealgavi, 11<sup>th</sup> June, 2021.
126. Expert Webinar on “Digital Twin Driven Smart Manufacturing” organized by Sri Venkateswara College of Engineering, Sriperumbudur (TK), Tamil Nadu, 17<sup>th</sup> June, 2021.
127. Online Workshop on “Patent Commercialization Method and Strategy” organized by Patent Information Center, Francis Xavier Engineering College, Tirunelveli, Tamilnadu, 19<sup>th</sup> June, 2021.
128. One day Virtual Webinar on “Artificial Intelligence and its Alliance with Mechanical Engineering” organized by Mechanical Engineering Department in association with Mandsaur University, 03<sup>rd</sup> July, 2021.
129. One Day International Webinar on “Futuristic Devices: From Healthcare to Quantum Computing” organized by Department of Electronics, Mahatma Gandhi Shikshan Mandal’s Arts, Science and Commerce College, Chopda, Dist. Jalgaon, Maharashtra, 09<sup>th</sup> August, 2021.

**Online Training completed: 01**

1. Basics of COVID-19, Department of Personnel & Training, 04<sup>th</sup> May, 2020
2. Standard precautions: Hand hygiene, World Health Organization, 04<sup>th</sup> May, 2020

**Research Modules Completed: 07**

1. Making sense of science stories
2. The journal publishing cycle
3. Publisher: Origins, roles and contributions
4. The origins of scientific publishing
5. Making sense of science stories – webinar
6. The journal publishing cycle – webinar
7. 10 tips for writing a truly terrible journal article

**Associate Editorial: 01**

1. Nanomedicine & Nanotechnology Open Access (NNOA)

**Member of Editorial Board: 17**

1. American Journal of Nanoscience and Nanotechnology
2. International Journal of Materials Science and Applications
3. Advances in Materials

4. International Journal of Modern Physics and Application American Journal of Materials Research
5. American Journal of Chemistry and Application
6. International Journal of Applied Nanotechnology
7. **Lead Guest Editor:** Recent Advances in Materials for Different Applications as Sensors(RAMDAS)
8. **Guest Editor :** Nanomaterials and Nanosensors for Chemical and Biological Detection
9. International Scientific Committee and Editorial Review Board on Materials and Metallurgical Engineering.
10. Open Journal of Engineering Research and Technology
11. MST International Journal of Physics (MST-IJP)
12. International Journal of Excellence Innovation and Development (IJEID)
13. International Journal of Academic Research and Development (IJARD)
14. SCIREA Journal of Physics
15. SCIREA Journal of Materials
16. Journal of Dynamics of Machines

**Reviewer of International Journal: 15**

1. Journal of Alloys and Compounds (Elsevier)
2. International Nano Letter (Springer)
3. IEEE Sensor (IEEE Xplore)
4. Journal of Physics D: Applied Physics (IOP)
5. European Respiratory Journal
6. Nanotechnology (IOP Science)
7. Journal of Communications Engineering and Networks
8. Measurement Science & Technology(IOP)
9. Materials Chemistry and Physics(Elsevier)
10. Journal of Nanoengineering and Nanotechnology.
11. American Journal of Chemistry and Application (American Association for Science &Technology).
12. American Journal of Materials Research (American Association for Science & Technology).
13. International Journal of Modern Physics and Application Research (American Associationfor Science & Technology).
14. Journal of Emerging Technologies and Innovative Research
15. Journal of Nanostrucrure



## Position held:

### a) Subject related bodies

1. **Academic Counselor:** Indira Gandhi National Open University, New Delhi
2. **Member of Board of Studies:** Maharashtra State Bureau of Textbook Production and Curriculum Research (Balbharti), Pune
3. **Member of Syllabus restructuring committee:** KBC NMU, Jalgaon
4. **Member of Question Bank Preparation Committee:** KBC NMU, Jalgaon
5. **Member of Board of Paper Setter:** KBC NMU, Jalgaon
6. **Research Advisory Committee (RAC):** KBC NMU, Jalgaon
  - i) GDM Arts, KRN Commerce and MD Science College, Jamner, Dist. Jalgaon
  - ii) Rani Laxmibai College, Parola, Dist. Jalgaon.
7. **National Service Scheme Advisory Committee:** Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
8. **NEP-2022 implementation :** Government of Maharashtra, School Education and Sport Department, State Education Research and Training Council, Pune

### b) Professional Bodies:

1. **Junior Research Fellow (JRF):** DIT, Govt. of India, July 2007 – July 2009.
2. **Senior Research Fellow (SRF):** DIT, Govt. of India, August 2009 –December 2010.
3. **Member:** Youth for Human Rights International, New Delhi, India.
4. **Member:** Materials Research Society of India (MRSI) [LMB: 1850].
5. **Member:** Emerald Literati Network: The network of authors, editors and researchers, unique in academic publishing (Emerald Group Publishing Limited).
6. **Member:** American Nano Society (ANS) [Membership ID: 1393001].
7. **Member:** Asian Nanoscience and Nanotechnology Association (ANNA)[Membership Number: 201001112].
8. **Member:** The Indian Science Congress Association, India [L28184].
9. **Member:** The NANOSMAT Society, UK [TNS-100].
10. **Senior Member:** International Society for Research and development [SR4150900399].
11. **Member:** American Chemical Society, [Membership No. 30618723].
12. **Member:** Professors Directory, University Grant Commission, New Delhi
13. **Member:** Maharashtra Harit Sena, Govt. Maharashtra [JG/2017/ind/361451].
14. **Member:** International Association of Advanced Materials: [Membership Number: 80371915001].
15. **Local Coordinator:** University Level Physics Talent Search Examination (UPTSE–2013).

16. **Preceding Officer:** Maharashtra Legislative Assembly Election – 2014, Gram Panchyat Election – 2015, Nagar Panchyat Election – 2016, Jilha Parishad and Panyst Samiti Election– 2017, Lok Sabha Election- 2019, Maharashtra Legislative Assembly Election- 2019, Gram Panchyat Election – 2021

c) **Intuitional / Departmental:**

1. Head, Department of Physics: Arts, Commerce & Science College, Bodwad.
2. **Student Welfare Officer:** Arts, Commerce & Science College, Bodwad [4 years: from 2013-2014 to 2016-2017]
3. **Coordinator:** Internal Quality Assurance Cell (IQAC) [2016-17 to till date]
4. **Coordinator:** National Assessment and Accreditation Council (NAAC) [2016-17 to 2020]
5. **Member:** College Development Committee (CDC) [2016-17 to till date]
6. **Member:** National Service Scheme Advisory Committee
7. **Coordinator:** SAYAM
8. **Coordinator:** Rashtriya Uchcharat Shiksha Abhiyan (RUSA)
9. **Chairman:** National Institutional Ranking Framework [India Ranking-2020,2021]
10. **Chairman:** Gunvatta Hami Samiti, As per KBC NMU, Jalgaon Guideline.
11. **Coordinator:** National Innovation and Startup Policy (NISP) for MHRD's Innovation Cell
12. **Programme Officer:** National Service Scheme (NSS) (2020-21 to till date)
13. **Member:** National Council of Teacher Scientist, India

d) **Co-Curricular, Extension and Professional Development Related Activities**

1. **Team Manager** – University Level One Day Students Seminar , G. D. M. Arts, K.R.N. Commerce and M.D. Science College, Jamner, Dist. Jalgaon, 10 January 2014
2. **Team Manager** – University Level Intercollegiate Youth Festival “Yuvarang-2013”, J. T. Mahajan College of Engineering, Faizpur, 25-28 January 2014.
3. **Team Manager** – University Level Intercollegiate Youth Festival “Yuvarang- 2014” G.T.P. College, Nandurbar, 19-22 January 2015, **College Team won bronze medal (3<sup>rd</sup> rank) in skits competition.**
4. **Member:** University Level “Nattya Abhivachan” Competition organizing committee, P.O. Nahata College, Bhuswal, 27<sup>th</sup> September 2014
5. **Team Manager** – University Level Intercollegiate Youth Festival “Yuvarang-2015” SSBT'S College of Engg. & technology Bambhori, Jalgaon, 7-10 January 34

2016

6. **Member:** University Level “**Sutr Sanchaln Workshop**” organizing committee, SaintMuktaibai College, Muktainagar, 27<sup>th</sup> -28<sup>th</sup> January 2017.
7. **Team Manager** – District Level Intercollegiate Youth Festival “Yuvarang-2017”, P. O.Nahata College, Bhusawal, 25<sup>th</sup> January 2018.
8. **Organizing Committee Member** – West Zone NSS Pre- Republic Day Parade Camp 202, Sponsored by Government of India, Ministry of Youth Affairs & Sports, New Delhi organized by Regional Directorate of NSS, Pune in collaboration with Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, 12<sup>th</sup> to 21<sup>st</sup> October 2021.

#### **Talk delivered: 07**

1. Special Talk on “**Nanotechnology**” delivered at “Inaugural function of Science Association” held at Arts, Commerce & Science College, Bodwad on 17<sup>th</sup> September 2012.
2. Talk delivered on “**Net Banking and Mobile Banking**” at Winter camp of N.S.S of D. D. N. B. College, Bhusawal held at Sakri Tal Bhuswal on 29<sup>th</sup> December 2016.
3. Talk delivered on “**Net Banking and Mobile Banking**” at Winter camp of N.S.S of D. D. N. B. College, Bhusawal held at Sakri Tal. Bhuswal on 19<sup>th</sup> December 2017.
4. Talk delivered on “**Publicity of Science**” at *Z.P. Marathi Primary School, Rigaon Tal. Muktainagar, 12<sup>th</sup> January, 2019.*
5. Talk delivered on “**New guideline of NAAC**” at Arts, Commerce and Science College, Yawal, 5<sup>th</sup> January, 2020.
6. Talk delivered on “**DVV Clarification of Self Study Report of NAAC**” at *Sant MuktabaiCollege, Muktainagar, 11<sup>th</sup> March, 2020.*
7. Talk delivered on “**Registration Process and preparation for online AQAR**” at Arts, Commerce and Science College, Yawal, 20<sup>th</sup> October, 2020.

#### **Guest Lecture delivered: 02**

1. Arts, Commerce & Science College, Kurha Kakoda on 2<sup>nd</sup> November 2018.
2. Arts, Commerce & Science College, Kurha Kakoda on 17<sup>th</sup> September 2019.

#### **Awareness Programme Organized: 03**

1. Quiz on Awareness of Mental Health during Pandemic of COVID19 organized by Department of Physics, 14<sup>th</sup> May 2020. (**Total Participants: 1,597**)
2. COVID-19 Awareness Quiz jointly organized by Internal Quality Assurance Cell, Arts, Commerce and Science College, Bodwad, Dist: Jalgaon, Maharashtra, India, PIN: 425310 & Pontifical Catholic University of America-PCUA, 5040 NW 7<sup>th</sup> S T Miami, Florida 33126, 18<sup>th</sup> May 2020 (**Total Participants: 5090**)

3. SPIT free India Movement, PLEDGE for LIFE Tobacco free Youth organized by NSS Department KBC NMU, Jalgaon and Sambandh Foundation, New Delhi 11<sup>th</sup> July 2020.

**(Total Participants: 6524)**

**Participation in Awareness Programme: 24**

1. COVID -19 General Awareness Quiz by Davangere University, Shivagangotri
2. Pledged and online “COVID-19 Pandemic General Awareness Quiz” by Yeshwant Mahavidyalaya, Nanded.
3. COVID-19 Pandemic General Awareness Quiz by Dahiwel College.
4. COVID-19 Awareness Online Quiz Program by Lal BahadurShastri Mahavidyalaya, Dharmabad.
5. COVID-19 Pandemic General Awareness Quiz by ACS College, Adinathnagar.
6. ONLINE CORONA AWARENESS PROGRAM by M.J. College, Jalgaon
7. Pledge for CORONA Awareness by ACS College, Shahada.
8. Covid- 19 Awareness Quiz Mahila College, Shirpur.
9. COVID-19 Awareness Programme, Shiviji University, Kolhapur.
10. COVID-19 Pandemic General Awareness Quiz by RISE, Mohali.
11. JantaCurfew Pledge, MEIT, Gov. India
12. Fuel Conservation Pledge, My Gov.
13. Pledge of COVID19 prevention, Delgon Group.
14. Spitting Kills campaign, Tata Memorial Hospital.
15. Quiz on Intellectual Property Rights, KPR Institute, Coimbatore.
16. Youth Pledge, Ministry of Youth Affairs and Sports, Gov. of India.
17. Online National Awareness Programme on COVID 19 by IAPT-RC09.
18. COVID-19 Pandemic Diseases Online Awareness Quiz, by Divine Faith Fellowship Society & Pontifical University of America.
19. IFS Forensic Science Quiz and a pledge for prevention of Coronavirus Diseases by International Forensic Sciences, Pune
19. Basic NAAC Awareness Quiz Programme by IQAC of ACS College, Palus
20. Online Quiz Contest on “Research Methodology” organized by Ph.D. Research Center, G. N. Azad College of Social Work Pusad.
21. Online Quiz on Research Metrics in Scientific Publications organized by MLR Institute of Technology (UGC Autonomous), Dundigal, Hyderabad.
22. Spit Free India Movement, NSS, KBC NMU & Sambandh Foundation, New Delhi.
23. e-Test on Teacher’s Day, by MKCL.
24. MyNEP Quiz Competition by Vidya Bharati

### **Honors and Awards:**

1. Biography is listed in 30<sup>th</sup> Pearl Anniversary Edition of **Who's Who in the World 2014 (31<sup>st</sup> Edition)** (Publisher of the original Who's Who in America, Founded by A.N. Marquis in 1899).
2. Nominated for **Great Minds of the 21<sup>st</sup> Century** (Publisher of Biographical Reference Works since 1967, American Biographical Institute, Inc.)

### **Cite Alerts:**

1. My publications have been cited in the papers published in the journals of international repute of different publisher, such as: Elsevier, ISI Web of Knowledge and High Beam Research.

### **Achievements: 09**

1. **Best Oral Presentation Award** for the research paper entitled "Ultrasonically atomized zinc oxide nanopowders: Preparation, characterizations and its thick film as a chemical sensor" National Conference on Indian Development In Recent and Ideal Semiconductors for Novel Applications" (NC IDRIS - 2012), organized by Shri. D. H. Agrawal, Shri. Rang Avadhoot Commerce and Shri. C. C. Shah & M. G. Agrawal Science College, Navapur, Dist. Nandurbar, 6 & 7 October, 2012
2. **Bronze Medal (3<sup>rd</sup> Prize):** Under my leadership college team won Bronze Medal (3<sup>rd</sup> Prize) in **Skits** competition in "Yuvarang-2014" held at G.T.P. College, Nandurbar, 19<sup>th</sup> - 22<sup>nd</sup> January 2015.
3. **Director and Producer of Film**  
A Short Film of Social Awareness on Divyangjan Sashaktikaran entitled "**Houslon Ki Udaan**". This film is submitted to The Department of Empowerment of Person with Disabilities (Divyangjan) (DEPwD), Ministry of Social Justice & Empowerment, Government of India for the competition.
4. **Award of Leadership Certificate and Platinum Medal**  
For promoting the **SPIT FREE INDIA MOVEMENT** through National Service Scheme (NSS) to prevent the spread of COVID-19, conducted by Department of NSS, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon in collaboration with Pledge for Life.
5. **First Prize Award** for presentation of Research Paper entitled "Sensing performance of CWA simulants using Pt-ZnO thick films", at "**International Conference on Nanomaterials & nanotechnology (ICONN-2021)**", organized by Department of Physics (UDP) Sciences, University of Mumbai, Mumbai, 25<sup>th</sup> -27<sup>th</sup> March 2020.
6. **Swachhta Action Plan Institute:** Under my Leadership Our College is recognized as Swachhta Action Plan Institute by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India.
7. **One District One Green Champion Award:** Under my Leadership Our College is awarded One District One Green Champion Award by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education,<sup>37</sup>

Government  
of India., 13<sup>th</sup> August 2021.

8. **Beat Covid Campaign:** Under my Leadership Our College recognized as member of Beat Covid Camp by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India.
9. **Research Recognition & Listing:** Profile is listing under category **Research Excellence** in RSquareL by Global Academician & Researcher Network (GARNet) **RSL ID: RSL 032**
10. Recognized as **Fellow Member of RSquareL** by Global Academician & Researcher Network (GARNet)
11. **Showcase! The Success of Sustainability:** Under my Leadership Our College has been showcased the success story in Swachhta Action Plan Implementation Programme organized by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India

**For more information:**

<https://acsbodwadcollege.org/>

<https://www.scopus.com/authid/detail.uri?authorId=26032545800>

<https://scholar.google.co.in/citations?user=xQaI8KkAAAAJ&hl=en>

<https://orcid.org/0000-0001-6591-4127>

<https://publons.com/researcher/1203236/dr-anil-ramdas-bari/>

[https://www.researchgate.net/profile/Dr\\_Anil\\_Bari](https://www.researchgate.net/profile/Dr_Anil_Bari)

<https://vidwan.inflibnet.ac.in/profile/67333>

<https://loop.frontiersin.org/people/125330/overview>

<https://www.mrsi.org.in/member-details.php>

<https://www.semanticscholar.org/author/A.-R.-Bari/31714023>

<https://rsquarel.org/listing.php?rid=RSL032>

**Dr. Anil Ramdas Bari**

