

❖ **PROFILE: PROF. (DR.) J. B. THORAT**



1. PERSONAL DETAILS:

SHIVAJI UNIVERSITY KOLHAPUR API SCORE- 266.2

• Name in Full	:	Prof. (Dr.) JAYAVANT BHIMRAO THORAT
• Designation	:	<ul style="list-style-type: none"> • Professor & Head, Department of Physics, S.G.M. College, Karad (An Autonomous College). • Coordinator, M.Sc. Physics, S.G.M. College, Karad. • Dean, Faculty of Science and Technology, S.G.M. College, Karad (An Autonomous College). • Chairman, Board of Studies in Physics, S.G.M. College, Karad (An Autonomous College). • Member, Board of Studies in Physics, S. University, Kolhapur. • Chairman, Website Committee, S.G.M. College, Karad
• Email	:	jayavantthorat1565@gmail.com
• Mob. No.	:	8999779741, 9850914954
• Address for Correspondence	:	Department of Physics, Sadguru Gadage Maharaj College, Karad-415124.
• Residential Address	:	II Shri Ram Krupa II; Near Maya Regency; Krishna Canal; Goware Road; Vidyanagar- Saidapur; Karad-415124
• Date of Birth	:	01 st May 1965
• Date of Appointment in Sanstha	:	22/08/1988, On Probation-21/11/1991
• Date of Appointment in College	:	18/06/2019
• URLs	:	https://scholar.google.com/citations?user=4JEsHQIAAAA&hl=hi

2. ACADEMIC DETAILS:

Sr. No.	Degree Awarded	Board/University	Year of Passing	Principle Subject	Marks	Class
1	SSC	SSC Board, Pune	1981	All	62.57	I st Class
2	HSC	HSC Board, Pune	1983	All	45.50	II nd Class
3	B.Sc.	Shivaji University, Kolhapur	1986	Physics	67.14	I st Class Dist.
4	M.Sc.	Shivaji University, Kolhapur	1988	Physics	73.33	I st Class Dist.
5	Ph.D.	Shivaji University, Kolhapur	29 April 2019	Physics	-	-

Title of Ph.D. Thesis: “Characterization of Electrodeposited Bi₂Te₃ and Sb₂Te₃ Thin Films”

3. RESEARCH SPECIALIZATION:

❖ Research Interest: Material Science, Thin Film, Electrodeposition, Holography.

4. TEACHING EXPERIENCE:

- UG: 34 Years
- PG: 05 Years (PG Recognized Guide-Shivaji University,Kolhapur)

5. TEACHING EXPERIENCE DETAILS:

Sr. No.	Name of the College	University	Period of Service		Total Service
			From	To	
1	A.S.C. College, Lonand	Shivaji Uni. Kolhapur	11/07/1988	26/08/1992	4 Years
2	A.S.C. College, Malkapur	Shivaji Uni. Kolhapur	27/08/1992	31/08/1995	3 Years
3	M. Phule College, Pimpri-Pune	S. P. Pune Uni. Pune	01/09/1995	30/11/1995	3 Months
4	Dahiwadi College, Dahiwadi	Shivaji Uni. Kolhapur	01/12/1995	30/09/1996	10 Months
5	A.S.C. College, Pusegaon	Shivaji Uni. Kolhapur	01/10/1996	30/06/1998	2 Years
6	D.P.Bhosale College, Koregaon	Shivaji Uni. Kolhapur	01/07/1998	27/07/1998	1 Months
7	M. Phule College, Pimpri-Pune	S. P. Pune Uni. Pune	28/08/1998	30/11/1998	3 Months
8	S. P. College, Lonand	Shivaji Uni. Kolhapur	01/12/1998	16/06/2008	10 Years
9	A.S.C. College, Ramanandnagar	Shivaji Uni. Kolhapur	17/06/2008	17/06/2019	11 Years
10	S.G.M. College, Karad	Shivaji Uni. Kolhapur	18/06/2019	Onwards	-

6. RESEARCH GUIDANCE:

- M.Phil. : Nil
- Ph.D. : Nil
- M. Sc. Project Student : 62
- B. Sc. Project Student : 11

7. ORIENTATION/ REFRESHER COURSES:

Sr. No.	Name of Courses	Date	Organizers
1	Refresher Course in Physics	28 June -19 July 1993	Academic Staff College, Goa University, Goa
2	Refresher Course in Physics	23 July -19 Aug. 1997	Academic Staff College, University of Pune, Pune
3	Refresher Course in Physics	08 Mar.-28 Mar. 2002	Academic Staff College, Goa University, Goa
4	Refresher Course in Physics	04 Oct. - 24 Oct. 2002	Academic Staff College, University of Pune, Pune

8. RESEARCH PUBLICATIONS:

- National : Nil
- International : 16+01(Just submitted)=17

9. DETAILS OF ACHIEVEMENT/AWARDS

I) AWARD-

i) Rayat Shikshan Sanstha-

Rayat Shikshan Snstha's

“PRINCIPAL, R. D. MANE NISHTHAWAN GUNI RAYAT SEVAK PURASKAR: 2022-23”

(Awarded on 8th May 2023)

ii) Teacher fellowship-

**University Grant Commission, Ministry of Human Resource Development,
Government of India, WRO, Ganeshkhind, Pune-411007.**

*UGC Award of Teacher Fellowship under Faculty Development Programme During XII Plan Period for
Two Years (01Aug. 2016- 31 July 2018)*

iii) सांगली जिल्हा काँग्रेस सेवादल पुरस्कार, काँग्रेसभवन सांगली -

काँग्रेस सेवादल “समाजरत्न” ०२ डिसेंबर २०२३

II) PATENTS-

Sr. No.	Country	Name of Invention	Date of Filling	Date of Exam.	Date of Grant
1.	GERMAN	A System For Preparing Film of Functionalized Multiwalled Carbon Nanotubes For Gas Sensing Application	11/07/2022	12/08/2022	19/09/2022
2.	SOUTH AFRICA	A Method For Synthesizing Zinc Oxide Nanotube	01/07/2022	28/09/2022	30/01/2023
3.	INDIA	Automated Gate Entry System To Avoid Thief In Crusher Management	17/01/2023	27/01/2023	---

III) AD SCIENTIFIC INDEX RANKING-

i) Listed in worlds scientist and university rankings 2023

(AD Scientific Index Ranking)

ii) Listed in worlds scientist and university rankings 2024

(AD Scientific Index Ranking)

IV) CITATIONS, H-INDEX, I10-INDEX -

Since 2018 – Citations - 150

h-index - 06

i10-index - 05

10. RESEARCH PROJECTS COMPLETED:

Sr. No.	Title of Research Projects	Funding Agency	Amount Approved Rs.	Period of the Project
1.	Studies on Solution combustion synthesis and Characterization of Lanthanum Manganites	UGC, New Delhi	70,000/-	Sept 2008-2010
2.	Synthesis and Characterization of $\text{Co}_x\text{Cu}_{1-x}\text{Fe}_2\text{O}_4$ by chemical rout	RUSA, Gov. of Maharashtra	1, 30,000/-	Jan 2020-2022

11. BOOKS PUBLISHED:

Sr. No.	Name of the Book	Type of Book International /National, Book by International / Editor of Book by National Publisher	Publisher & ISBN No.	No. of co- authors	Whether principal author / co- author
1	Mechanics-I B.Sc.-I; Sem.-I; Paper-I;	Textbook, National Publisher, Author of book.	Prof. G.A. Kadam Publication ISBN: 978-93-5391- 764-7	04	Principal author
2	Mechanics-II B.Sc.-I; Sem.-I; Paper-II;	Textbook, National Publisher, Author of book.	Nrali Prakashan ISBN: 978-93- 89686-39-5	04	Principal author
3	Advances in Functional & Sustainable Materials	Reference Book, National Publisher, Author of book.	Bhumi Publication ISBN:978-93-91768- 77-5	03	Principal author, Editor
4	Innovation in Smart & Technomaterials	Reference Book, National Publisher, Author of book.	Prarup Publication ISBN:978-81- 956739-7-1	04	Principal author, Editor

12. CHAPTERS PUBLISHED IN REFERENCE BOOKS:

Sr. No.	Title of Book	Name of Chapter	Type of Book Publisher & ISBN No.
1	Advances in Functional & Sustainable Materials (AFSM-2022) 8 April 2022	1. Studies On Structural, Morphological, Optical And Electrical Properties of Annealed Lamox Thin Film. 2. Surface Modification Of Electrodeposited Bi ₂ Te ₃ Thin Films Using Electron Beam Irradiation For Photoelectrochemical Solar Cell application. 3. Microwave Assisted Synthesis And Characterization of MO-CO-ND-CD Nanoparticals.	Bhumi Publication ISBN:978-93-91768-77-5
2	Innovation in Smart & Technomaterials (ICISTM-2023) 16 Jan. 2023	4. Y ³⁺ Substituted Ni-Cu-Zn Nanoferrites: A Highly Efficient Room Temperature Cl ₂ Gas Sensor. 5. Spectral Response And Speed Of Response Studies Of Pristine And Doped CdSe Thin Films Deposited By Chemical Bath Deposition Method. 6. Preparation And Characterization Of Mn@PAni Electrode For Supercapacitor Application. 7. Synthesis And Characterization Of PAni-MnO ₂ Electrode For Supercapacitor Application. 8. Nanoflakes of Co ₃ O ₄ Thin Film for Supercapacitor Application 9. Electrodeposited V ₂ O ₅ Thin Films For Supercapacitor Application. 10. Electrochemical Performance of Interconnected Nanoporous Mat of V ₂ O ₅ for Supercapacitor Application 11. Spray Deposited Mg doped ZnO Thin Films for Gas Sensing Application 12. Electro spun V ₂ O ₅ Nanofibers as Binder free Electrode Material for Supercapacitor Application	Prarup Publication ISBN:978-81-956739-7-1
3	Recent Advances In Fabrication Technology Of Nanomaterials (RAFTN-2022)	13. Synthesis of Metal Organic Framework (MOF). 14. Electrochemical Supercapacitor Performance of Electro spun Nanofibre. 15. Recent Advances in Electrospun Composite Nanofibers for Energy Storage in high performance Supercapacitors	Prarup Publication ISBN:978-81-956739-3-3
4	Physics of Materials and Materials based Device Fabrication (NCPMM-MDF-2023)	16. Structural Study of Samarium Substituted Ni-Cd Ferrite Films. 17. Spectral Response and Speed of Response Studies of Pure and Doped Cd-Se Thin Films Deposited by SILAR Method.	Shivaji University Publication

13. DETAILS OF RESEARCH PUBLICATIONS:

Sr. No.	Title of Research Publication	Year and details
1	Nanocrystalline Bi₂Te₃ thin films synthesized by electrodeposition method for photoelectrochemical application. J B Thorat, SV Mohite, AA Bagade, TJ Shinde, VJ Fulari, KY Rajpure,	<i>Materials Science in Semiconductor Processing</i> Volume 79, 1 June 2018, Pages 119-126 ISSN: 1369-8001, Impact Factor: 2.722 https://doi.org/10.1016/j.mssp.2018.02.002
2	Electrochemical and surface deformation studies on electrodeposited nanostructured Bi₂Te₃ thin films. JB Thorat, SV Mohite, SB Madake, RD Suryavanshi, KY Rajpure, ...	<i>Optics & Laser Technology</i> Volume 113, May 2019, Pages 384-393 ISSN: 0030-3992, Impact Factor: 3.319 https://doi.org/10.1016/j.optlastec.2019.01.008
3	Surface Deformation Study of the Electrodeposited Nanostructured Bi₂Te₃ and Sb₂Te₃ Thin Films by Double-Exposure Digital Holographic Interferometry. JB Thorat.	<i>Physica status solidi (a): Applications and Material Science</i> 19 July 2019: Print ISSN: 1862-6300, Impact Factor: 1.606 https://doi.org/10.1002/pssa.201800661
4	Nanocrystalline immobilised ZnO photocatalyst for degradation of benzoic acid and methyl blue dye. RD Suryavanshi, SV Mohite, AA Bagade, SK Shaikh, JB Thorat,	<i>Materials Research Bulletin</i> Volume 101, May 2018, Pages 324-333 ISSN: 0025-5408, Impact Factor: 3.355 https://doi.org/10.1016/j.materresbull.2018.01.042
5	Spray deposited Fe₂O₃ photoelectrode for degradation of benzoic acid and methyl blue dye under solar radiation. RD Suryavanshi, SV Mohite, SK Shaikh, JB Thorat, K.Y. Rajpure.	<i>Journal of Materials Science: Materials in Electronics</i> December 2018, Volume 29, Issue 24, pp 20875-20884 ISSN: 0957-4522 (print), Impact Factor 2.195 https://link.springer.com/journal/10854/29/24/page/1
6	Effect of La³⁺ substitution on structural and magnetic parameters of Ni–Cu–Zn nano-ferrites. BB Patil, AD Pawar, DB Bhosale, JS Ghodake, JB Thorat, TJ Shinde	<i>Journal of Nanostructure in Chemistry</i> June 2019, Volume 9, Issue 2, pp 119–128 DOI 10.1007/s40097-019-0302-0, ISSN 2008-9244, Volume 9, Number 2 Print ISSN 2008-9244, Impact Factor 1.004 https://link.springer.com/article/10.1007/s40097-019-0302 ,
7	Physico-electrochemical investigation of electrodeposited nanocrystalline Sb₂Te₃ thin films. J. B. Thorat, S. V. Mohite, S. B. Madake, S. K. Shinde, D. S. Lee, J. Jung, K. Y. Rajpure, T. J. Shinde, V. J. Fulari & N. S. Shinde	<i>IJRAR-International Journal of Research and Analytical Reviews</i> International Conference on Advances in Pure and Applied Sciences ICAPAS-2019. UGC Approved: 43602, eISSN 2348–1269, Print ISSN 2349-5138: Impact Factor: 5.75 http://ijrar.com/
8	X-Ray Diffraction Analysis Of Ni-Cu-Zn Nano-Ferrite Synthesized By wet Chemical Route. B. B. Patil, A D. Pawar, D. B. Bhosale, S. V. Godase, J. S. Ghodake, J. B. Thorat & T. J. Shinde	<i>IJRAR-International Journal of Research and Analytical Reviews</i> International Conference on Advances in Pure and Applied Sciences ICAPAS-2019. UGC Approved: 43602 eISSN 2348–1269, Print ISSN 2349-5138: Impact Factor: 5.75 http://ijrar.com/

09	Nano-ferrite synthesized by microwave assisted technique' S. S. Barate, L. S. More, A. D. Pawar, S. S. Patil, S. V. Godase, S. R. Bhongale, J. B. Thorat, J. S. Ghodake, and T. J. Shinde,	<i>AIP Conference Proceedings</i> 2265, 030152 (2020); https://doi.org/10.1063/5.0017630
10.	Spray deposited multimetal Cu-Ni-Zn ferrite for gas sensing application. SB Madake, JB Thorat, KY Rajpure 01 November 2021.Pages-112919.Volume-331	<i>Journal of Sensors and Actuators A: Physical</i> (2021) Impact Factor: 4.29; ISSN 0924-4247 01 November 2021.Pages-112919.Volume-331Publisher-Elsevier https://doi.org/10.1016/j.sna.2021.112919
11.	Chemiresistive gas sensing properties of copper substituted by Zn Ferrite thin films deposited by spray pyrolysis technique, S. B. Madake, M. R. Hartale, J. B. Thorat, R. S. Pednekar, K. Y.Rajpure	<i>Journal of Electronic Materials</i> Impact factor: 1.676 (2018) Print ISSN 0361-5235
12.	Effect of electron beam irradiation on EIS and photoelectrochemical performance of electrodeposited nanocrystalline Bi₂Te₃ thin films. Jayavant B. Thorat, Namdev S. Harale, Indrajeet A. Dhole, S.K. Shinde, M.C. Rath, Tukaram J. Shinde, Nitin S. Shinde, Vijay J. Fulari.	<i>Journal of Materials Science: Materials in Electronics</i> 32, pages20031–20046 (2021) Impact Factor: 2.220 (2019) Print ISSN: 0957-4522 https://doi.org/10.1007/s10854-021-06290-x
13.	Impact of La³⁺ substitution on electrical, magnetic, dielectric and optical properties of Ni_{0.7}Cu_{0.1}Zn_{0.2}La_xFe_{2-x}O₄ (0< x< 0.035) system. BB Patil, AD Pawar, SS Barate, JS Ghodake, JB Thorat, TJ Shinde.	<i>Journal of Rare Earths</i> (2022), 06 April 2022, ISSN: 10020721, Impact Score: 4.37 Publisher: Chinese Rare Earth Society https://doi.org/10.1016/j.jre.2022.03.023
14.	The influence of nickel substitution on the structural and gas sensing properties of sprayed ZnFe₂O₄ thin films SB Madake, AR Patil, RS Pedanekar, NA Narewadikar, JB Thorat, KY Rajpure	<i>Journal of Materials Science: Materials in Electronics</i> (2022), 30 Jan. 2022. Volume-33. Issue-9 Publisher- Springer US. Pages- 6273-6282 https://doi.org/10.1007/s10854-022-07802-z
15.	Studies on Structural Properties of Ytterbium (Yb³⁺) Substituted Mg–Cu–Zn Nano-ferrites. Prakash S Patil, Amol D Pawar, Bajrang B Patil, Leena S More, Dheeraj B Bhosale, Shruti S Barate, Jeevan S Ghodake, Jayavant B Thorat, Tukaram J Shinde	<i>Journal of Macromolecular Symposia</i> (2021), 22 December 2021 Publisher- Wiley-VCH Verlag Volume-400 Pages-2100131 https://doi.org/10.1002/masy.202100131
16.	Synthesis, Structural And Morphological Analysis Of Silar Synthesized Cdse Thin Films. V.V. Killedar V.S.Raut, P.P. Jadhav, D.K. Dhongade, C.R. Bobade, J.B. Thorat, C.D. Lokhande	<i>Journal of Bulletin of Environment, Pharmacology and Life Science</i> (2022), Publication -27 Feb. 2022 Volume-235. Publisher-Academy for Environment and Life Sciences, India ISSN No. 2277-1808
17	A Study of NO₂ gas concentration on response of CdO thin films prepared by novel reflux method P.A. Desai, A.A. Admuthe, R.H.Patil, V.S. Jamdade, S.G. Pawar, S.J. Rajoba, S.S. Kumbhar, S.H. Pisal, J.B. Thorat, I.A. Dhole	<i>Journal of Nano-and Electronic Physics Submitted (Under Review)</i>

14. NUMBER OF PAPERS PRESENTED/ATTENDED CONFERENCES/ SEMINARS:

Sr. No.	Details of Activity	:	Count
1.	Paper Presented at International Conference	:	12
2.	Paper Presented at National Conference	:	04
3.	Participation in International Conference	:	07
4.	Participation in National Conference/ Seminars	:	35
6.	Participation in Uni. level Workshops/Seminar	:	17
7.	Convener for International Conference	:	02
8.	Convener for National Conference	:	02
9.	Organizer for National Conference	:	03
10.	Organizer for Workshops	:	08
11.	Resource Person for Workshop/Conference	:	08
12.	Chairperson for Workshop/Conference	:	04
13.	Examiner for International/National Conference	:	05
	Total	:	107

**15. DETAILS OF CONVENER/ORGANIZER/ PRESENTED PAPER,
POSTER / ATTENDED IN NATIONAL AND INTERNATIONAL
(CONFERENCES/SEMINARS/WORKSHOPS):**

Sr. No.	Title of Lecture /Academic Session	Title of Conference /Seminar etc	Organized by	Whether International/ National/ State or University level
1	Biotechnology In Agro-Industry And Environment. Member of Organizing Committee	S.U.K. Sponsored Conference on BIOTECHNOLOGY IN AGRO-INDUSTRY AND ENVIRONMENT	A.S.C. College, Lonand. 27 Dec. 2002	University level
2	B.Sc. Part- I (Physics) Revised Syllabus. Participation	Two Day Workshop on B.Sc. Part- I (Physics) Revised Syllabus	Department of Physics, Shivaji University, Kolhapur. 24-25 Sep. 2003	University level
3	ENERGY RESOURCES & ENVIRONMENT. Participation	One Day Seminar on ENERGY RESOURCES & ENVIRONMENT.	Shajiraje Mahavidyalaya, Khatav. 28 Sep. 2003	University level
4	Draft Syllabus B.Sc. Part- II (Physics). Participation	Workshop on Draft Syllabus B.Sc. Part- II (Physics) Revised Syllabus	Shajiraje Mahavidyalaya, Khatav. 20 Jan. 2004	University level
5	New Horizons In Physics. NS-NHP-07. Participation	National Seminar on NEW HORIZONS IN PHYSICS. NS-NHP-07	Y. C. I. S. Satara 20-21 Jan. 2007	University level
6	Teaching Methodology For Technical Subjects. Participation	Two Day Workshop on Teaching Methodology For Technical Subjects	Rayat Shikshan Sanstha's, Karmveer Vidya Prabodhini. 30-31 Jul. 2008	University level
7	Application of Solid State Materials Participation	Seminar	S.P. Mahavidyalaya, Lonand, 04 & 05 Dec. 2009	National level
8	Solar Energy. Participation	National Level Seminar on Solar Energy	M. J. S. Mahavidyalaya, Shrigonda, Ahmednagar. 01-02 Feb. 2010	National Level

9	Astrophysics and cosmology. Organizing Secretary	One day State Level Seminar on Astrophysics and cosmology	A. S. C. College, Ramanandnagar 10 Feb. 2010	State level
10	Advanced Materials-2010 Participation	National Level Seminar on Advanced Materials-2010 (NSAM-2010)	Department of Physics, Shivaji University, Kolhapur. 19-20 Mar. 2010	National Level
11	Developments in Thin Film Processing and Characterization Technology. Participation	UGC Sponsored National Level Seminar on Developments in Thin Film Processing and Characterization Technology	Department of Physics, Yashwantrao Mohite College, Pune-38 08-09 Oct. 2012	National Level
12	Revised Syllabus of Physics (B.Sc. Part- III, Sem-VI). Participation	One Day Workshop on Revised Syllabus of Physics (B.Sc. Part- III, Sem-VI)	P. D. V. P. Mahavidyalaya, Tasgaon. 10 Aug. 2012	University level
13	Workshop on Revised Practical Syllabus of Physics. Participation	Workshop on Revised Practical Syllabus of Physics (B.Sc. Part- III)	B. D. College, Patan. 13 Aug. 2012	University level
14	Recent Developments and Measurement Techniques in Astronomy and Astrophysics. Participation	National Seminar on Recent Developments and Measurement Techniques in Astronomy and Astrophysics.	Shajiraje Mahavidyalaya, Khatav. 16-17 Jan. 2013	National Level
15	Workshop on Initial Stages of Research and Research Mind Set. Participation	State Level Workshop on Initial Stages of Research and Research Mind Set.	Balwant College, Vita. 15 Mar. 2013	State level
16	Workshop on Revised Syllabus of Physics (B.Sc. Part- III, Sem- V and VI). Participation	One Day Workshop on Revised Syllabus of Physics (B.Sc. Part- III, Sem- V and VI)	K. N. P. College, Walawa. 21 Aug . 2013	University level
17	Workshop on Revised Syllabus of B.Sc.Part- I, Physics Sem- II. Participation	One Day Workshop on Revised Syllabus of B.Sc. Part- I, Physics Sem- II	K. W. C. College,Sangli. 13 Sep . 2013	University level
18	Studies on Solution Combustion Synthesis and Characterization of Lanthanum Magnites. Poster Presented	2 nd International Conference on Physics of Materials and Materials Based Fabrication (ICPM-MDF-2014)	Department of Physics, Shivaji University, Kolhapur. 13-15 Jan. 2014	International level

19	Workshop on Revised Theory Syllabus of Physics (B.Sc. Part- III, Sem- V). Resource Person	One Day Workshop on Revised Theory Syllabus of Physics (B.Sc. Part- III, Sem- V)	Y. C. Warana Mahavidyalaya, Warananagar. 22 Aug . 2015	University level
20	Workshop on Revised Theory Syllabus of Physics (B.Sc. Part- III, Sem- VI). Resource Person	One Day Workshop on Revised Theory Syllabus of Physics (B.Sc. Part- III, Sem- VI)	K. N. P. College, Walawa. 25 Aug . 2015	University level
21	Workshop on AISHE/MIS Year: 2015-16 Nodal Officer	One Day Workshop on AISHE/MIS Year: 2015-16	Dr. Patangrao Kadam Mahavidyalaya, Sangli. 27 Aug. 2015	University level
22	Workshop on Revised Practical Syllabus of Physics (B.Sc. Part- III, Sem- VI). Chair Person	One Day Workshop on Revised Practical Syllabus of Physics (B.Sc. Part- III, Sem- VI)	Y. C. I. S. Satara 28 Aug. 2015	University level
23	Challenges and Opportunities Before 21 st Century India in the Fields of Social Sciences, Sciences, Management and Technology. Presented Paper on Characterization Techniques	Two Day International Conference on Challenges and Opportunities Before 21 st Century India in the Fields of Social Sciences, Sciences, Management and Technology	Rajarshi Chhatrapati Shahu College, Kolhapur. 06-07 Feb. 2016	International level
24	Studies on Solution Combustion Synthesis and Characterization of Lanthanum Magnites. Poster Presented	International Conference on Materials Science and Ionizing Radiation Safety & Awareness.	Department of Physics, Shivaji University, Kolhapur. 28-30 Jan. 2016	International level
25	Theme of NAAC 3 RD CYCLE ASSESMENT. Participation	Seminar on the Theme of NAAC 3 RD CYCLE ASSESMENT	IQAC of A.S.C. College, Ramanandnagar 14 Oct. 2016	University level
26	Prime Minister's Fellowship Scheme For Doctoral Research. Participation	One Day Workshop on PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH	D. Y. Patil Education Society, Kolhapur. 25 Nov. 2016	University level
27	Inovative Research In Chemical Sciences Presented Paper	National Conference On Inovative Research In Chemical Sciences	Department of Chemistry, Shivaji University, Kolhapur. 1,2 Feb. 2017	National level

28	Bi ₂ Te ₃ Thin Films for Photoelectrochemical Application. Presented Paper	National Conference On Recent Trends In Nanomaterials	Y.C. I. S. Satara 28 Sep. 2017	National level
29	Nano crystalline Bi ₂ Te ₃ Thin Films for Photoelectrochemical Application Synthesized by Electrodeposition. Presented Paper	3 rd International Conference on Innovative Research in Science and Technology	G. K. G. College, Kolhapur 7-8 Nov. 2017	International level
30	Nano crystalline Bi ₂ Te ₃ Thin Films for Photoelectrochemical Application Synthesized by Electrodeposition. Presented Paper	International Conference on Nanotechnology Addressing The Convergence of Materials Science, Biotechnology and Medical Science.	D. Y. Patil University, Kolhapur 9-11 Nov. 2017	International level
31	Characterization and PEC performance of Electrodeposited crystalline Bi ₂ Te ₃ Thin Films. Presented Poster	International Conference on Applied Nanotechnology and Nanoscience	Tuljaram Chaturchand College, Baramati. 7-9 Dec. 2017	International level
32	Nano crystalline Bi ₂ Te ₃ Thin Films by Electrodeposition. Presented Paper	National Seminar on Recent Trends in Synthesis and Applications of Nanomaterials	Dada Patil Mahavidyalaya Karjat, Dist.-Ahmednagar. 8-9 Dec. 2017	National level
33	PEC & EIS Study of Electrodeposited Bi ₂ Te ₃ Thin Films. Presented Poster	National Conference on Recent Advances in Physics AND Natural Sciences	K.B.P.College, Islampur Jan.23, 2018	National level
34	Surface Deformation Studies of Electrodeposited Bi ₂ Te ₃ Thin Films. Presented Paper	International Conf. on Advanced Research In Life Sciences	S. G. M. College, Karad Mar.27-28, 2018	International level
35	B.Sc.- I Theory Syllabus Resource Person	One Day Workshop	Y. C. College, Karad Aug. 20, 2018	University level
36	Surface Deformation Studies of Electrodeposited Bi ₂ Te ₃ Thin Films. Presented Poster	1st International Conf. on Materials and Environmental Science	S.Y.P.S. College, Solankur Dec.07-08, 2018	International level
37	Project On Water Level Indicator Demonstration	Rayat Inspire Project Exhibition	S. G. M. College, Karad 10 Dec. 2018	University level
38	All India Survey of Higher Education 2018-19. Participation	One Day Workshop on AISHE/MIS	Willington College, Sangli. Jan. 03, 2019	University level

39	Physico-electrochemical Investigation of Electrodeposited Sb_2Te_3 Thin Films. Presented Poster	International Conference on Advances in Pure and Applied Sciences (ISAPAS-2019)	Department of Physics, Baiwant College, Vita Jan. 05-06, 2019	International level
40	Characterization, PEC & EIS Study of Electrodeposited Bi_2Te_3 Thin Films. Presented Poster	4 th International Conference on Physics of Materials and Materials Based Device Fabrication	Department of Physics, Shivaji University Jan. 10-11, 2019	International level
41	B.Sc.-I; Theory and Practical Syllabus. Chairman, BOS in Physics Coordinator	One Day Workshop New Autonomous Syllabus	S. G. M. College, Karad July 31, 2019	University level
42	M.Sc.-I; Theory and Practical Syllabus. Chairman, BOS in Physics Coordinator	One Day Workshop New Autonomous Syllabus	S. G. M. College, Karad July 31, 2019	University level
43	B.Sc.-II; Practical Syllabus Participation	One Day Workshop New Changed Syllabus (CBCS)	Y. C. College, Karad Aug. 21. 2019	University level
44	B.Sc.-II; Theory Syllabus Paper V and VI. Participation	One Day Workshop New Changed Syllabus (CBCS)	A. S. C. College, Ramanandnagar Aug. 23. 2019	University level
45	B.Sc.-II; Theory Syllabus Paper VIII. Participation	One Day Workshop New Changed Syllabus (CBCS)	R. C. S. College, Kolhapur Sep. 16, 2019	University level
46	B.Sc.-II; Theory Syllabus Paper VII. Participation	One Day Workshop New Changed Syllabus (CBCS)	D. P. B.College, Koregaon Oct.. 11, 2019	University level
47	Surface deformation study of Electrodeposited Sb_2Te_3 Thin Films by Double Exposer Holographic Interferometry Presented Paper	National Conference on Conservation & Biodiversity Banking	A.S.C. College, R,nagar(Burli) 17 Jan. 2020	University level
48	Project On Power Generation from Water Supply Demonstration	Rayat Inspire Project Exhibition	S. G. M. College, Karad 18 Dec. 2019	University level
49	Characterization and Electrochemical Study of Electrodeposited Nanostructured Sb_2Te_3 Thin Films Presented Paper	Fourth International Conference on Advances in Materials Science (ICAMS-2020)	Raje Ramrao Mahavidyalaya Jath Jan. 20-21, 2020	International level
50	Characterization, PEC & EIS Study of Electrodeposited Bi_2Te_3 Thin Films Presented Paper	International Con. on Multifunctional and Hybrid Materials for Energy and Env. (MHMEE-2020)	Y.C.I.S. Satara Jan. 29-31, 2020	International level

51	International Con. on Multifunctional and Hybrid Materials for Energy and Environment Examiner for Oral and Poster Presentation	International Con. on Multifunctional and Hybrid Materials for Energy and Environment (MHMEE-2020)	Y.C.I.S. Satara Jan. 29-31, 2020	International level
52	Revised Accreditation Framework of NAAC. Participation	Two Days National Seminar on Revised Accreditation Framework of NAAC	S. G. M. College, Karad Feb 04-05, 2020	National level
53	ICT enabled Innovative Pedagogy. Participation	Two Days National Workshop on ICT enabled Innovative Pedagogy	S. G. M. College, Karad Feb 17-18, 2020	National level
54	Preparation of IIQA and SSR Convener	Two Days National Workshop on Preparation of IIQA and SSR	S. G. M. College, Karad March 14-15, 2020	National level
55	Nanomaterial Synthesis is Emerging Facet of the World Participation	One Day International E-Conference on Nanomaterial Synthesis is Emerging Facet of the World	Late P. P.Arts and Science College, Risod, Washim (MS) May. 20, 2020	International level
56	Basic Electrodynamics Participation	Online Quiz	S.G.M. College, Karad 07 May 2020	University level
57	Towards Excellence in Higher Education Participation	Online Webinar	S.S.T. College of Arts & Commerce, Mumbai 10 May 2020	University level
58	Role of Review of Related Literature in the Research Participation	Online Webinar	G.P. Patil College of Arts & Science, Kon, Mumbai 15 May 2020	National level
59	Handling Online Classes & Cocreating MOOCS Participation	National Online Workshop	A.S.C. College, Ramanandnagar, 28 May 2020	University level
60	Covid-19: Prevention Awareness Quiz-2020 Participation	Online Quiz	S.G.M. College, Karad 31 May 2020	National level
61	Quiz on Physics Participation	Online Quiz on Physics	K.R.P. Kanya Mahavidyalaya, Islampur 31 May 2020	National level
62	NAAC Revised Accreditation Framework Participation	One Day Workshop	Y.C.I.S. Satara, 01 June 2020	University level

63	Nanomaterial for Smart and Sustainable Energy Solutions. Participation	One Day International E-Conference on Nanomaterial for Smart and Sustainable Energy Solutions.	Mahatma Phule A. S. C. College, Panvel, Raigad (MS). June 08, 2020	International level
64	Efficient Measures for Writing Research Papers, Its Publication & Access to E-Resources Participation	One Day Webinar	S.G.M. College, Karad 13 June 2020	National level
65	Master Class on Data Driven Digital Marketing 4.0 for Business Participation	Online Webinar	S.D. Patil Institute of Management & Business School, Pune 17 June 2020	National level
66	Type SET Research studio tool Participation	Online Webinar	MIT World Peace University, Pune 18 June 2020	National level
67	Advances in Synthesis Techniques and Characterization of Materials. Participation	National Webinar on Advances in Synthesis Techniques and Characterization of Materials.	T. C. College, Baramati (MS). Jun. 24-29, 2020	National level
68	Learning Physics: Opportunities in Difficulties Participation	National Webinar on Learning Physics: Opportunities in Difficulties	D. B. F. Dayanand College of Arts and Science, Solapur 26 June 2020	National level
69	Recent Trends in Nanostructured Materials Based Devices and Their Applications. Participation	International Web-Seminar on Recent Trends in Nanostructured Materials Based Devices and Their Applications.	D. P. Bhosale College, Koregaon, Satara (MS) July 18, 2020	International level
70	Novel Applications of Nanomaterials Participation	International Webinar	Prof. Dr. N.D. Patil Mahavidyalaya, Malkapur 18 July 2020	International level
71	Emerging Trends in Physical Sciences NCETPS-2020 Participation	National Conference on Emerging Trends in Physical Sciences NCETPS-2020	A. S. C.College, Ramanandnagar (MS). Jul.22, 2020	National level
72	Materials for Energy Participation	National Webinar on Materials for Energy.	Y. C. College of Science, Karad Jul. 25, 2020	National level
73	Preparation of Physics NET/SET Exam Coordinator	Five Days National Virtual Workshop on Preparation of Physics NET/SET Exam	S. G. M. College, Karad July 29- Aug 02, 2020	National level

74	Advanced Functional Nanomaterial's Their Device Applications. Participation	International E-Conference on Advanced Functional Nanomaterials Their Device Applications.	Krishna Mahavidyalaya, Rethare Bk., Satara (MS) Aug. 10, 2020	International level
75	Recent Trends in Physics Participation	National Webinar	A.C.S. College, Palus 20 Aug. 2020	National level
76	Cutting Edge Smart Materials & Nanotechnology Convener	Two Days International E-Conference on Cutting Edge Smart Materials & Nanotechnology	S. G. M. College, Karad Aug 20-21, 2020	International level
77	Recent Advances in Chemical Sciences Participation	National E-Seminar on Recent Advances in Chemical Sciences	Krishna Mahavidyalaya, Rethare Bk., Satara (MS) Aug. 29, 2020	National level
78	The Role of Mathematics & Computer Science in AI & ML Participation	E-Seminar	Krishna College, Rethare BK 31 Aug. 2020	National level
79	Recent Perspectives In Modern Physics. Participation	National Webinar on Recent Perspectives In Modern Physics.	R. B. N. B. College, Shrirampur (MS) Sep. 10, 2020	National level
80	Advanced Nanostructured materials for Energy Generation, Storage and Smart Applications. Participation	International Web-Conference on Advanced Nanostructured materials for Energy Generation, Storage and Smart Applications.	Sharadabai Pawar Mhila Arts, Commerce and Science College, Baramati (MS) Oct. 09-10, 2020	International level
81	API and CAS Promotion to Professorship Participation	One Day Workshop on API and CAS Promotion to Professorship	Shivaji Uni. Teachers Association (SUTA) 03 Jan. 2021	University level
82	Workshop on New Changed Syllabus (CBCS) of B.Sc.-III Physics Practical. Resource Person	One Day Workshop on New Changed Syllabus (CBCS) of B.Sc.-III Physics Practical	Balwant College, Vita. 01 Feb. 2021	Uni. level
83	Workshop on New Changed Syllabus (CBCS) of B.Sc.-III Physics Theory Paper- IX & XII. Resource Person	One Day Workshop on New Changed Syllabus (CBCS) of B.Sc.-III Physics Theory Paper- IX & XII.	R.C.S. College, Kolhapur. 03 Feb. 2021	Uni. level
84	Online Workshop on Career Opportunities in Higher Education. Participation	One Day Online Workshop on Career Opportunities in Higher Education	Kirshna Mahavidyalaya, Rethare Bk. 05 Feb. 2021	Uni. level

85	Emerging Trends and Technology in Electronics. Participation	National Webinar on Emerging Trends and Technology in Electronics.	T. C. College, Baramati. 06 Feb. 2021	National level
86	National Webinar on Astronomy. Participation	One Day National Webinar on Astronomy.	S.D. B.S. College, Miraj. 22 Feb. 2021	National level
87	Workshop on New Changed Syllabus (CBCS) of B.Sc.-III Physics Theory Paper- X & XVI. Chair Person	Workshop on New Changed Syllabus (CBCS) of B.Sc.-III Physics Theory Paper- X & XVI.	D. P. Bhosale College, Koregaon. 24 Feb. 2021	Uni. level
88	One Day National Seminar On CAREER OPPORTUNITIES IN PHYSICS Convener	CAREER OPPORTUNITIES IN PHYSICS	S. G. M. College, Karad 06 March 2021	National level
89	International Conference on Nanomaterials & Nanotechnology ICONN-2021 Participation	International Conference on Nanomaterials & Nanotechnology	Dept. of Physics, University of Mumbai 25-27 Mar.2021	International level
90	International Conference on Advances in Material Sciences and Applied Biology ICAMSAB-22 Presented Paper	Study of Physical, Chemical and Electrical Properties of $\text{Co}_x\text{Cu}_{(1-x)}\text{Fe}_2\text{O}_4$ Synthesized by Coprecipitation Method	Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) 27-28 Jan. 2022	International level
91	One Day Workshop on Advanced Skills In Synthesis of Materials by Different Methods. Organizer	Advanced Skills In Synthesis of Materials by Different Methods.	Dept. of Physics, S. G. M. College, Karad 05 March 2022	Uni. level
92	National Conference on Advances in Functional and Sustainable Materials Organizer	Advances in Functional and Sustainable Materials	Dept. of Physics, S. G. M. College, Karad in collaboration with KRP Islampur 08 April 2022	National level
93	Workshop of Indian Association for Radiation Protection (IARP) Organizer	Beneficial Effects of Radiation and Indian Nuclear Energy Programme.	Dept. of Physics, S. G. M. College, Karad in collaboration with KRP Islampur 30 April 2022	National level
94	Workshop on An Orientation of NAAC Criterion –VII Institutional Values and Best Practices Participated	An Orientation of NAAC Criterion –VII Institutional Values and Best Practices	IQAC Cell S. G. M. College, Karad 22 April 2022	National level
95	Workshop on National Education Policy-2020 Participated	National Education Policy-2020	IQAC Cell S. G. M. College, Karad 23 July 2022	National level

96	One Day State Level Conference Resource Person	Challenges In Implementing National Education Policy	IQAC & Dept. of History, S. G. M. College, Karad 01 Oct. 2022	State Level
97	One Day Workshop Quality Education Organizer	Quality Education	Department of Physics & IQAC S. G. M. College, Karad . 23 Nov. 2022	State Level
98	A Two Day Residential Faculty Development Program Participated	Enhancement Effective Communication Skill	IQAC S. G. M. College, Karad 24, 25 Dec. 2022	State Level
99	National Conference RAFTN-2022 Chairperson	Recent Advances I FabricationTechnologyo f Nanomaterials-2022	Balwant College,Vita 28 Dec. 2022	National Level
100	National Conference RAFTN-2022 Examiner for Poster	Recent Advances I FabricationTechnologyo f Nanomaterials-2022	Balwant College,Vita 28 Dec. 2022	National Level
101	A Two Day International Conference Organizer	Innovation in Smart And Technomaterials	Dept. of Physics, S. G. M. College, Karad 16,17 Jan. 2023	International Level
102	One Day Workshop Under Lead College Activity Organizer	Characterization Techniques	Dept. of Physics, S. G. M. College, Karad 06 Feb. 2023	University level
103	One Day International Conference Participation	Recent Trends in Fabrication of Nanomaterials and Their Applications (ICRTFNA-2023)	Dept. of Physics and IQAC Cell, R. C. S. College, Kolhapur. 15 March 2023	International Level
104	Two Day International Conference Examiner, For Oral Session	Recent Trends in Pure and Applied Sciences (ICRTPAS-23)	Dept. of Physics and IQAC Cell, K. R. P. Kanya Maha. Islampur 24 & 25 March 2023	International Level
105	Two Day National Conference Presented Paper	Physics of Materials & Materials based Devices Fabrication 2023 (NCPM-MDF-2023)	Dept. of Physics, Shivaji University, Kolhapur. 25&26 Nov. 2023	National Level
106	Two Day National Conference Examiner, For Oral Session Examiner, For Poster Session	Physics of Materials & Materials based Devices Fabrication 2023 (NCPM-MDF-2023)	Dept. of Physics, Shivaji University, Kolhapur. 25&26 Nov. 2023	National Level
107	One Day Workshop Under Lead College Activity Convener	Energy Harvesting Devices	Dept. of Physics, S. G. M. College, Karad 29 Dec. 2023	University Level

16. INVITED TALKS:

Sr. No.	Title of Lecture	Date of Invited Lecture/ Seminar etc.	Organized by	Whether International (Abroad/within country)/ National / State/ University
Invited lectures/Guest lectures: 2015				
1	Classical Mechanics: Lagrangian Formulation	Invited lecture 03 Aug. 2015	S.G.M. College, Karad	Uni. level
2	Classical Mechanics: Applications of Lagrangian Formulation	Invited lecture 07 Sep. 2015	S.G.M. College, Karad	Uni. level
3	Classical Mechanics: Hamiltonian Formulation	Invited lecture 05 Oct. 2015	S.G.M. College, Karad	Uni. level
4	Electrodynamics: Maxwell's Equations	Invited lecture 17 Dec. 2015	S.G.M. College, Karad	Uni. level
Invited lectures/Guest lectures: 2016				
5	Career Counseling for Science Students	Invited lecture 11 Jan. 2016	S.G.M. College, Karad	Uni. level
6	Electrodynamics: Boundary Conditions	Invited lecture 29 Jan. 2016	S.G.M. College, Karad	Uni. level
7	Electrodynamics: Maxwell's Equations	Invited lecture 22 Feb. 2016	S.G.M. College, Karad	Uni. level
8	Nuclear Physics: Nuclear Energy Levels	Invited lecture 10 Mar. 2016	S.G.M. College, Karad	Uni. level
9	Classical Mechanics: Lagrangian Formulation	Invited lecture 08 Aug. 2016	S.G.M. College, Karad	Uni. level
Invited lectures/Guest lectures: 2017				
10	Classical Mechanics: Lagrangian Formulation	Invited lecture 05 Jan. 2017	S.G.M. College, Karad	Uni. level
11	Maxwell's Equations and Electromagnetic Waves	Invited lecture 16 Jan. 2017	Smt.K.R.P.Kanya Mahavidyalaya, Islampur	Uni. level
12	Time dependent potentials and Fields in Electrodynamics	Invited lecture 27 Feb. 2017	Smt. K.R.P. K. Mahavidyalaya, Islampur	Uni. level
13	Opportunities in Physics after B.Sc.	Invited lecture 27 July. 2017	Balawant College, Vita	Uni. level
14	Opportunities in Physics after B.Sc.	Invited lecture 10 Aug. 2017	S.G.M. College, Karad	Uni. level
15	Opportunities in Physics after B.Sc.	Invited lecture 24 Aug. 2017	Smt. K.R.P. K. Mahavidyalaya, Islampur	Uni. level
16	Classical Mechanics: Lagrangian Formulation	Invited lecture 18 Sep. 2017	Balawant College, Vita	Uni. level
17	Classical Mechanics: Lagrangian Formulation	Invited lecture 27 Sep. 2017	Smt.K.R.P.K. Mahavidyalaya, Islampur	Uni. level

18	Classical Mechanics: Variational Principle	Invited lecture 16 Oct. 2017	Smt. K.R.P. K. Maha., Islampur	Uni. level
19	Classical Mechanics: Hamiltonian Formulation	Invited lecture 11 Dec. 2017	Balawant College, Vita	Uni. level
20	Maxwell's Equations and Electromagnetic Waves	Invited lecture 14 Dec. 2017	Smt. K.R.P. K. Mahavidyalaya, Islampur	Uni. level
21	Classical Mechanics: Lagrangian Formulation	Invited lecture 28 Dec. 2017	S.G.M. College, Karad	Uni. level
Invited lectures/Guest lectures: 2018				
22	Atomic and Nuclear Physics	Invited lecture 06 Jan. 2018	Balawant College, Vita	Uni. level
23	Maxwell's Equations and Electromagnetic Waves	Invited lecture 22 Jan. 2018	Smt. K.R.P. K. Mahavidyalaya,	Uni. level
24	Time dependent potentials and Fields in Electrodynamics	Invited lecture 26 Feb. 2018	Smt. K.R.P. K. Mahavidyalaya, Islampur	Uni. level
25	Classical Mechanics: Lagrangian Formulation	Invited lecture 22 Mar. 2018	Smt. K.R.P. K. Mahavidyalaya, Islampur	Uni. level
26	Concepts in Semiconductor Physics and Electronics	Invited lecture 09 Jul. 2018	S.G.M. College, Karad	Uni. level
27	Classical Mechanics: Variational Principle	Invited lecture 20 Jul. 2018	Smt. K.R.P. K. Mahavidyalaya, Islampur	Uni. level
28	Opportunities in Physics after B.Sc.	Invited lecture 20 Aug. 2018	S.G.M. College, Karad	Uni. level
29	Opportunities in Physics after M.Sc.	Invited lecture 11 Sep. 2018	Smt. K.R.P. K. Maha., Islampur	Uni. level
30	Mechanics	Invited lecture 25 Sep. 2018	S.G.M. College, Karad	Uni. level
31	Classical Mechanics	Invited lecture 22 Oct. 2018	S.G.M. College, Karad	Uni. level
32	Atomic and Nuclear Physics	Invited lecture 10 Dec. 2018	S.G.M. College, Karad	Uni. level
33	Maxwell's Equations and Electromagnetic Waves	Invited lecture 21 Dec. 2018	Smt. K.R.P. K. Mahav., Islampur	Uni. level
Invited lectures/Guest lectures: 2019				
34	Atomic and Nuclear Physics	Invited lecture 21 Jan. 2019	S.G.M. College, Karad	Uni. level
35	Atomic and Nuclear Physics	Invited lecture 25 Feb. 2019	S.G.M. College, Karad	Uni. level
36	Classical Mechanics: Variational Principle	Invited lecture 20/07 /2019	Smt.K.R.P.K. Maha., Islampur	Uni. level
37	Classical Mechanics	Invited lecture 07 Aug. 2019	A.S.C.College, Ramanandnagar	Uni. level
38	Classical Mechanics	Invited lecture 29 Aug. 2019	A.S.C.College, Ramanandnagar	Uni. level

39	Classical Mechanics	Invited lecture 11 Sep. 2019	A.S.C.College, Ramanandnagar	Uni. level
40	Atomic and Nuclear Physics	Invited lecture 30 Sep. 2019	A.S.C.College, Ramanandnagar	Uni. level
41	Nuclear Physics	Invited lecture 03 Dec. 2019	A.S.C.College, Ramanandnagar	Uni. level
42	Nuclear Physics	Invited lecture 27 Dec. 2019	A.S.C.College, Ramanandnagar	Uni. level
Invited lectures/Guest lectures: 2020				
43	Nuclear Physics	Invited lecture 09 Jan. 2020	A. S.C. College, Ramanandnagar	Uni. level
44	Nuclear Detectors	Invited lecture 13 Jan. 2020	A. S.C. College, Ramanandnagar	Uni. level
45	Nuclear Physics: Accelerators	Invited lecture 17 Jan. 2020	Krishna Maha. Rethare Bk.	Uni. level
46	Maxwells Equations	Invited lecture 31 Jan. 2020	A. S.C. College, Ramanandnagar	Uni. level
47	Nuclear Physics	Invited lecture 13 Feb. 2020	A. S.C. College, Ramanandnagar	Uni. level
48	Elementary Particles	Invited lecture 20 Feb. 2020	A. S.C. College, Ramanandnagar	Uni. level
49	Nuclear Physics: Nuclear Energy Levels	Invited lecture 27 Feb. 2020	Krishna Maha., Rethare Bk.	Uni. level
50	Superconductivity	Invited lecture 12 Mar. 2020	Krishna Maha., Rethare Bk.	Uni. level
51	Timer IC 55	Invited lecture 14 Mar. 2020	A. S.C. College, Ramanandnagar	Uni. level
Invited lectures/Guest lectures: 2021				
52	Opportunities in Physics after B.Sc.	Invited lecture 29 Jan. 2021	M.B.S.K. Kanya Ma., Kadegaon	Uni. level
53	Opportunities in Physics after B.Sc.	Invited lecture 18 Feb. 2021	Balwant College, Vita	Uni. level
54	Opportunities in Physics after B.Sc.	Invited lecture 27 Feb. 2021	A. S. C. College, Ramanandnagar	Uni. level
55	Classical Mechanics: Lagrangian Formulation	Invited lecture 22 Oct. 2021	Balwant College, Vita	Uni. level
56	Classical Mechanics: Newtonian and Lagrangian Formulation	Invited lecture 29 Oct. 2021	M.B.S.K. Kanya Ma., Kadegaon	Uni. level
57	Classical Mechanics: Lagrangian Formulation	Invited lecture 25 Nov. 2021	Dr.Patangrao Kadam Maha. Ramanandnagar	Uni. level
Invited lectures/Guest lectures: 2022				
58	Research Methodology-Publication of Research paper and Poster	Invited lecture 24 Mar. 2022	Balwant College, Vita	Uni. level
59	Research Methodology-Publication of Research paper and Poster	Invited lecture 12 Apl. 2022	Dr.Patangrao Kadam Maha. Ramanandnagar	Uni. level
60	Advanced Skills in Research	Invited lecture 18 May. 2022	M.B.S.K.Kanya Mahavidyalaya, Kadegaon	Uni. level

61	Career Guidance and Poster Competition-2022	Invited lecture 21 May. 2022	Smt. K.R.P. K. Maha., Islampur	Uni. level
62	Research Methodology Importance of research in Higher Education	Invited lecture 28 Jun. 2022	M.B.S.K.Kanya Mahavidyalaya, Kadegaon	Uni. Level
Invited lectures/Guest lectures: 2023				
63	Personality Development	Invited lecture 12 Jan. 2023	M.B.S.K.Kanya Mahavidyalaya, Kadegaon	Uni. Level
64	Project Preparation and Presentation	Invited lecture 01 Feb. 2023	Smt. K.R.P. Kanya Mahavidyalaya, Islampur	Uni. level
65	Interview Skills	Invited lecture 27 Feb. 2023	M.B.S.K.Kanya Mahavidyalaya, Kadegaon	Uni. level
66	Job Opportunities and Higher Studies in Physics After B.Sc.	Invited lecture 11 Mar. 2023	M.B.S.K.Kanya Mahavidyalaya, Kadegaon	Uni. level

17. SOCIAL RESPONSIBILITIES :

i) सामाजिक व्याख्याने-

अ.क्र.	विषयाचे नाव	दिनांक	ठिकाण
१	विज्ञान व तंत्रज्ञान	१२ डिसेंबर २०१९	बॅ. पी. जी. पाटील स्पर्धा परीक्षा मार्गदर्शन केंद्र, स.गा.म. कॉलेज, कराड
२	व्यक्तिमत्व विकास	२१ जानेवारी २०२१	बॅ. पी. जी. पाटील स्पर्धा परीक्षा मार्गदर्शन केंद्र, स.गा.म. कॉलेज, कराड
३	अंधश्रद्धा निर्मूलन – विवाह पत्रिकेतील विविध दोष	२७ मार्च २०२२	ग्रामपंचायत कालवडे
४	मुलाखत कौशल्य	१४ सप्टेंबर २०२२	बॅ. पी. जी. पाटील स्पर्धा परीक्षा मार्गदर्शन केंद्र, स.गा.म. कॉलेज, कराड
५	बेटी बचाव बेटी पढाओ	१७ नोव्हेंबर २०२२	ग्रामपंचायत कालवडे
६	व्यसनमुक्ती	१६ डिसेंबर २०२२	ग्रामपंचायत बनवडी
७	युवा पिढीसमोरील समस्या व जनजागृती	२२ डिसेंबर २०२२	ग्रामपंचायत कालवडे
८	महिला सबलीकरण	१० जानेवारी २०२३	ग्रामपंचायत बनवडी

ii) देणगी-

- अ) रयत शिक्षण संस्थेच्या, छत्रपती शाहू बोर्डिंग हाऊस शाखा नं-१ सातारा या वस्तीगृहास देणगी रु. ११,०००/- (रु. अकरा हजार) दि. ८ मे २०२३ दिली.
- आ) डॉ.पतंगराव कदम महाविद्यालय, रामानंदनगर याठिकाणी देणगी कमिटीचा प्रमुख म्हणून सन २०१८-१९ या शैक्षणिक वर्षात दि.०१ ते ३१ऑगस्ट २०१८ या कालावधीत काम केले आणि रु.१०,५१,०९५/- (रु. दहा लाख एकावन्न हजार पंच्यान्नव) एवढी रक्कम देणगी म्हणून मिळविली.
- इ) रयत शिक्षण संस्थेच्या, छत्रपती शाहू बोर्डिंग हाऊस , सातारा या शाखेच्या अमृत महोत्सव निधीकरिता रु.५५६/- एवढी रक्कम दि. २०/०६/२००१ रोजी देणगी म्हणून दिली.
- ई) रयत शिक्षण संस्थेच्या, छत्रपती शाहू बोर्डिंग हाऊस , सातारा या शाखेच्या अमृत महोत्सव निधीकरिता रु. १०३२/- एवढी रक्कम दि. २६/०७/२००१ रोजी देणगी म्हणून दिली.
- उ) रयत शिक्षण संस्था - कर्मवीर स्मारक करिता देणगी म्हणून रु. १००/- दि. ३१/०३/१९९१ रोजी दिले.
- ऊ) शरदचंद्र पवार महाविद्यालय, लोणंद याठिकाणी दि. ०१/१२/२००८ ते दि. १६/०६/२००८ या कालावधीत काम करत असताना श्री.पाटणकर बंधू ,लोणंद यांचेकडून देणगीरूपाने महाविद्यालयास "जनार्दन जलकुंभ "या नावाने विद्यार्थ्यांसाठी पिण्याच्या पाण्याची सोय व्हावी म्हणून पाण्याची टाकी बांधून घेतली.
- ऋ) दि. ०१ /०३/१९९६ रोजी महात्मा फुले महाविद्यालय ,पुणे या महाविद्यालयास व्यक्तिगत रु. १२७९९/- एवढी रक्कम देणगी म्हणून दिली.
- ल) दहिवडी महाविद्यालय, दहिवडी या महाविद्यालयास दि. १५/१०/ १९९९ रोजी रु. ५००/- एवढी देणगी दिली.
- एँ) रयत शिक्षण संस्था-कृतज्ञता निधी करिता देणगी म्हणून रु. ११००/- दि.३१/०३/२००६ रोजी दिले.
- ऐ) सन २००५-०६ पासून व्यक्तिगत एकूण पगाराच्या १% इतकी रक्कम दरमहा पगारातून रयत शिक्षण संस्थेस कृतज्ञता निधी देत आहे.
सन २०२२ कृतज्ञता निधी रु. ३०२३२/-
सन २०२३ कृतज्ञता निधी रु. ३५०३५/-
- ए) कर्मवीर निधी -(२२ सप्टेंबर) दरवर्षी सप्टेंबर महिन्याच्या पगारातून पूर्ण एक दिवसाचा पगार रयत शिक्षण संस्थेस देणगी म्हणून देत आहे.
सन २०२२ कर्मवीर निधी रु. ८०७८/-
सन २०२३ कर्मवीर निधी रु. ९८९०/-

ऐ) सौ.लक्ष्मीबाई भाऊराव पाटील कन्या विद्यालय, रामानंदनगर (बुर्ली) या शाळेस दि. १३/०३/२०१५ रोजी रु. ५००/- एवढी देणगी दिली.

ऑ) रयत माउली निधी- (फेब्रुवारी) दरवर्षी फेब्रुवारी महिन्याच्या पगारातून संस्थेच्या आदेशानुसार रयत माउली निधी म्हणून रयत शिक्षण संस्थेस देणगी देत आहे.

18. ACADEMIC RESPONSIBILITIES AND OTHER CHARGE:

1. Working as a **Dean, Science and Technology** at SGM College, Karad.
2. Working as a **Chairman, Board of Studies in Physics** at SGM College, Karad.
3. Working as a **Member, Board of Studies in Physics** at Shivaji University, Kolhapur.
4. Working as **Head**, Department of Physics, SGM College, Karad
5. Working as **Coordinator** for M. Sc. Physics, SGM College, Karad
6. Working as **Coordinator of KPI Committee**, SGM College, Karad.
7. Working as **Coordinator of AAA Committee**, SGM College, Karad for Rayat Shikshan Sanstha, Satara and Shivaji University. Kolhapur.
8. Working as a **Chairman, College Website Committee**, SGM College, Karad.
9. Working as **Member** of Examination Committee, SGM College, Karad.
10. Working as a **Reviewer** for Materials Today: Proceedings.
11. Worked as **Chairman** for conference and seminar committee, SGM College, Karad
12. Working as **Chairman** for paper setter and examiner panel of Physics, SGM College, Karad.
13. Working as **Coordinator** for M.A./M.Sc. Entrance Examination of SGM College, Karad.
14. Worked as **Cap-Coordinator**, of Examination for Autonomous SGM College, Karad.
15. Worked as **Coordinator** for Entrance Examination of Shivaji Uni., Kolhapur in 2020-21.
16. Worked as External **Seniour Supervosor** for OCT./Nov. 2020-21 S.U. K. Examination.
17. Worked as **External Seniour Supervosor** for Mar./Apl. 2020-21 S.U. K. Examination.
18. Worked as **Examination Director** for OCT./Nov. 2019 Exam. of S.G.M. College, Karad.
19. Worked as **Coordinator** for Entrance Examination of 2022-23 of K.B.P.Uni. Satara.
20. Worked as **Coordinator** for Entrance Examination of 2023-24 of K.B.P.Uni. Satara.
21. Worked as **Head**, Department of Information Technology, SGM College, Karad
22. Worked as **Head**, Department of Physics, A. S. C. College, Ramanandnagar(Burli).
23. **Worked as Acting. Principal at A. S. C. College, Pusegoan.**
24. Worked as **Nodal Officer for NIRF (MIS, AISHE)** at ASC College, Ramanandnagar(Burli).

25. Worked as **LIC Member** of Committee for affiliation of Colleges of Shivaji University, Kolhapur at BABASAHEB CHITALE MAHAVIDYALAYA, BHILAWADI.
26. Worked as **LIC Member** of Committee of Shivaji University, Kolhapur (संदर्भ -जा.क्र.शिवाजी वि./संलग्नता/टी. -२/२०२३-२४/नं.५७४ /३१ मे २०२३) at KAKASAHEB CHAVAN COLLEGE, TALMAVALE, TAL.-PATAN.
27. Worked as **LIC Member** of Committee of Shivaji University, Kolhapur (संदर्भ -जा.क्र.शिवाजी वि./संलग्नता/टी. -२/B. K./ नं.10680 /15/01/2016) at S.G.M. College, Karad
28. Worked as **sub-committee member meeting held on 27/01/2020** in designing of B. Sc. – III syllabus 2020 of Shivaji University, Kolhapur (Out No. S.U./A.M./Science/ No. 0731/ dt. 20 Jan. 2020)
29. Worked as a **Member Of Selection Committee for selection of Lecturer in Physics** appointed by SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE PANHALA DIST. KOLHAPUR.
30. Worked as a **Member Of Selection Committee for selection of Lecturer in Physics** appointed by KRANTIAGRANI G. D. BAPU LAD MAHAVIDYALAYA, KUNDAL on 09/06/2019
31. Worked as **Program Committee Member** for International Conference on Materials Science and Ionizing Radiation Safety & Awareness (ICMSIRSA-2016) January 28-30, 2016 Shivaji University, Kolhapur.
32. Worked as **Examiner** for Poster and Oral presentation in 1st International conference on “Multifunctional and Hybrid Materials for Energy and Environment” (MHMEE-2020), 29-31 Jan. 2020, Department of Physics, Yashavantrao Chavan Institute of Science, Satara, M.S. India.
33. Worked as **Organizing Secretary** for one day National Seminar on Astrophysics and Cosmology at ASC College, Ramanadnagar held on 1st Feb 2010.
34. Worked as **Senior Supervisor at Mar./Apl. 2011 of Shivaji University Exam. 2011** at A. S. C. College, Ramanandnagar during the period 11/03/2011 to 30/04/2011.
35. Worked as **Resource Person for workshop of B.Sc.-III Syllabus for Laboratory Experiments Gp I – VI** organized by Balwant College, Vita on the day 01/02/2021.
36. Worked as **Resource Person for for workshop of B.Sc.-III Syllabus Paper IX Mathematical Physics of B.Sc.- III** on 02/02/2021 at Rajarshi Chhatrapati Shahu College, Kolhapur.
37. Worked as a **Organizer for NET/SET/GATE coaching workshop-**
Academic year 2019-2020; 10-02-2020 to 12-02-2020
Academic year 2020-2021; 29-07-2020 to 02-08-2020.

Academic year 2021-2022; 23-08-2021 to 27-08-2021.

Academic year 2022-2023; 10-05-2022 to 12-05-2022.

Academic year 2023-2024; 13-02-2023 to 17-02-2023.

38. Worked as a **Subject Expert for the selection of CHB Assistant Professor in Physics** on 25-11-2021 at Balasaheb Desai College, Patan.
39. Worked as a **Member of CAS Committee as a subject expert for selection of Associate Professor and Professor** on 05-05-2022 at Shivaji University, Kolhapur.
40. Worked as a **Subject Expert for the selection of CHB Assistant Professor in Physics** on 19-09-2022 at Krishna Mahavidyalaya, R. Budruk.
41. Worked as a **Member Of Selection Committee as a subject expert of S. U. Kolhapur for selection of Assistant Professor in Physics** on 22-01-2023 at K.B.P. College, Islampur.
42. Worked as a **Member of MOCK NAAC PEER Team** on 08-06-2023 at B.D. College, Patan.
43. Worked as a **Member of AAA Committee** of Rayat Shikshan Sanstha, Satara on 10-08-2022 at Prof. N.D. Patil Mahavidyalaya, Malkapur.
44. Worked as a **Member of AAA Committee** of Shivaji University, Kolhapur on 13-05-2022 at Arts & Commerece College, Undale.
45. Worked as **Resource Person** for workshop on Project Formulation, Poster preparation & its presentation on 01-01-2023 at K.R.P. Kanya Mahavidyalaya, Islampur.
46. Worked as **Resource person** for workshop on Research Methodology on 28-06-2022 at M.B.S.K. Kanaya Mahavidyalaya, Kadegaon.
47. Worked as a **NSS Program Officer** during the academic year 1989-90 to 1991-92 at S.P. Mahavidyalaya, Lonand.
48. Worked as a **NSS Program Officer** in the academic year 2010-11 at Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar.
49. Worked as a **Member of CAS Committee as a subject expert** for selection of Associate Professor in Physics on 19-01-2023 at K.B.P. University, Satara.
50. Worked as a **Examiner for Oral session at International Conference** held on 24 & 25 March 2023 at Smt. K.R.P. Kanya Mahavidyalaya, Islampur.
51. Worked as a **Examiner for Poster presentation at National Conference RAFTN-2022** held on 28-12-2022 at Balwant College, Vita.
52. Worked as a **Chairperson Of Technical Session At National Conference** held on 28-12-2022 at Balwant College, Vita.
53. Worked as a **Subject Expert for Senior Research Fellowship of SARTHI**, Pune on 22-12-2021 at Smt. K.R.P. Kanya Mahavidyalaya, Islampur.

54. Worked as a **Examiner for Poster & Model Exhibition** organized on Science Day on 09-03-2022 at Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar.
55. Worked as a **Member Of Syllabus Designing Committee** for designing syllabus of Classical Mechanics M.Sc. I of Shivaji University, Kolhapur.
56. Worked as **Convener** for Two Days International E-Conference on Cutting Edge Smart Materials & Nanotechnology organized by Department of Physics & IQAC of S.G.M. College, Karad on 20 - 21 Aug 2020.
57. **Organizer**, for One Day Workshop on Advanced Skills In Synthesis of Materials by Different Methods organized by Dept. of Physics, S. G. M. College, Karad 05 March 2022.
58. **Organizer**, for National Conference on Advances in Functional and Sustainable Materials organized by Dept. of Physics, S. G. M. College, Karad in collaboration with KRP Islampur 08 April 2022.
59. **Organizer**, for Two Days International Conference on Innovations in Smart and Technomaterials organized by Dept. of Physics, S. G. M. College, Karad
60. **Organizer**, Hands on Training for Instrumental Analysis 07-12 Nov. 2022.
61. **Organizer**, One Day E-Workshop on Intellectual Property Rights and Awareness organized on 15/01/2022.
62. **Convener**, One Day National Seminar on Carrier Opportunities held on 06/03/2021.
63. **Organizer**, One Day Workshop on Characterisation Techniques held on 06/02/2023.
64. **Organizer**, for Workshop of Indian Association for Radiation Protection (IARP) on Beneficial Effects of Radiation and Indian Nuclear Energy Programme organized by Dept. of Physics, S. G. M. College, Karad in collaboration with KRP Islampur ,**30 April 2022..**
65. **Member** of Materials Research Society of India (MRSI). -(No document)
66. **Member** of Indian Associate of Physics Teachers. -(No document)
67. Worked as **Head**, Dept of Physics, S. P. College, Lonand. -(No document)
68. Worked as **Head**, Dept. of Physics, N. D. Patil Mahavidyalaya Malkapur. -(No document)
69. Worked as **Head**, Dept. of Physics, A. S. C. College, Pusegaon. -(No document)
70. Worked as **CAP Director** for Uni. Examinations at ASC College, R'Nagar. -(No document)
71. Worked as **committee member** of NAAC at ASC College, R'Nagar. -(No document)
72. Worked as **Chairman** for NAAC Criteria – VII (Innovative Practices) at ASC College, R'Nagar. -(No document)
73. Worked as **Resource Person** at Smt. K. R. P. Kanya Mahavidyalya, Islampur on 08 August 2023 and delivered invited talk on NEP-2020: STRUCTURE AND FRAMEWORK FOR HIGHER EDUCATION

74. Worked as **University Subject Expert in Physics** on 14/07/2023 at KOYANA EDUCATION SOCIETY, PATAN, DIST.- SATARA. (Letter No. 205/2023-24 dt. 14/7/2023)
75. Worked as **Shivaji University Subject Expert in Physics** on 04/08/2023 at AMADAR SHASHIKANT SHINDE MAHAVIDYALAYA, MEDHA, TAL.- JAWALI, DIST.- SATARA. (Letter No. 1319/7/ dt. 19/7/23).
76. Worked as **Member of LIC Committee of KBP University**, Satara for Affiliation of Research Lab and Research Center of YCIS, Satara on 04/07/2023 (Letter No. 662/2023-24 dt. 04/07/2023)
77. Worked as a **Member of MOCK NAAC PEER TEAM** for **IVth Cycle NAAC** of BALASAHEB DESAI COLLEGE, PATAN.(Ref. No. 117/2023-24 dt. 22/07/2023)
78. Worked as **Member of LIC Committee of KBP University, Satara** for Affiliation of New Subjects and Additional Divisions from academic year 2023-24 at YCIS, Satara on 11/08/2023 (Letter No. KBPU/ESTD/2023-24/222/ DT. 662/2023-24 dt. 04/08/2023)
79. Worked as a **Member of MOCK NAAC PEER TEAM** for **IVth Cycle NAAC** of BALAWANT COLLEGE, VITA (Ref. No. 449/2023-24 dt. 07/08/2023).
80. Worked as a **Member of MOCK NAAC PEER TEAM** for **IIIrd Cycle NAAC** of KRISHNA MAHAVIDYALAYA, RETHARE BK II, TAL.- KARAD, DIST.- SATARA 09 Sep. 2023 (Ref. No. 449/2023-24 dt. 07/08/2023).
81. Worked as a **Member of RESEARCH SCORE CHECKING COMMITTEE for Principal Post (API)**(Ref. No. SU/AFFI./T1/API/SDM/1131 Dt. 06 Sep. 2023) on 18/09/2023 at SUK.
82. Worked as a **VICE CHANCELLOR NOMINATED SUBJECT EXPERT IN PHYSICS** for interview of Asst. Professor on 25 Sep. 2023 at KARMVEER VITTHAL RAMAJI SHINDE SHIKSHAN SANSTA, WAI. Dist.- Satara.(KVRSSS/62/2023-24, DT. 14 SEP. 2023).
83. Worked as a **VICE CHANCELLOR NOMINATED SUBJECT EXPERT IN PHYSICS** for interview of Asst. Professor on 26 Sep. 2023 at JANATA SHIKSHAN SANSTA, WAI. Dist.- Satara. (Out No.61/2023 dt. 04 Sep. 2023).
84. Worked as a **VICE CHANCELLOR NOMINATED SUBJECT EXPERT IN PHYSICS for API checking committee of S. U. Kolhapur for Associate Professor** held on 26 Dec. 2023. (जा.क्र. एसयु/संलग्नता/स्थान/टे.१/लाड/१७२७/दि. २२ डिसेंबर २०२३).
85. Worked as a **VICE CHANCELLOR NOMINATED SUBJECT EXPERT IN PHYSICS for INTERVIEW OF ASSOCIATE PROFESSOR** held on 28 Dec. 2023 at Shivaji University, Kolhapur. (जा.क्र. एसयु/संलग्नता/स्थान/टे.१/लाड/ १७३१ /दि. २३ डिसेंबर २०२३).

86. Worked as a VICE CHANCELLOR NOMINATED SUBJECT EXPERT IN PHYSICS for INTERVIEW OF ASSISTANT PROFESSOR held on 05 & 06 February 2024 at Swami Vivekanand Sanstha, Kolhapur
87. Out of total service, 11 years worked as Associated Professor since 16 June 2008 to 16 June 2019 at A. S. C. College, Ramanandnagar (Burli) and contributed actively and devotedly in preparation of IInd and IIIrd cycle of NAAC.
88. Out of total service, 14 years worked as Asst. & Asso. Professor from 22/08/1988 to 26/08/1992 and from 01/12/1998 to 16/06/2008 at Sharadchandra Pawar College, Lonand and contributed actively and devotedly in preparation of Ist cycle of NAAC.

I hereby declare that all the information given above is correct to the best of my knowledge.

Yours Sincere

Date- 01 July 2023

[Prof. (Dr.) J. B. Thorat]