

FACULTY PROFILE



Part-A General Information

1.	Name of the Teacher	:	Dr. RAMESHWAR RAOSAHEB KOTHAWALE
2.	Date of Birth	:	03-05-1968
3.	Date of Appointment	:	19-01-991
4.	Permanent Address	:	805/2/6, 'Deepkunj' Suvarna Nagari Hous. Soci.(Professor Colony), Near Jain Mandir, Kurduwadi Road, Barshi 413411
5.	Email ID .	:	rk19395@yahoo.com , ram220995@gmail.com
6.	Mobile Number	:	8087538884, 9850278943
7.	Designation	:	Professor & Head of Physics and Computer Science Department
8.	Subject taught with Specialization	:	Physics (Solid State Physics, Nano Physics)
9.	Educational Qualification	:	M.Sc., M.Ed., ADCSSAA., Ph.D.

10. Details of Educational Qualification:

Sr. No.	Degree	University	Year/date of Passing	% of Marks	Class
1.	S.S.C.	Aurangabad	1984	67.71	I st
2.	B.Sc.	Dr. B. Ambedkar Marathawada Uni. Chh. Sambhajinagar	1989	57.30	II st with B ⁺
3.	M.Sc.	Dr. B. Ambedkar Marathawada Uni. Chh. Sambhajinagar	1991	60.80	I st

4.	M.Ed.	Shivaji Uni. Kolhapur	1999	59.80	II st with B ⁺
5.	Ph.D.	Dr. B. Ambedkar Marathawada Uni. Chh. Sambhajinagar	2002	-	-
6.	ADCSSAA	MSBT	2005	60.00	I st

Date of appointment in the Sanstha & Exp.: 19.08.1991 (32 Years)

- a) As a Lecturer : : 19.08.1991 to 31.12.2005, Associate Professor
(01.01.2006), Professor (20.01.2020)
- 1) University Approval No. : Acad/affi/change/91-92/31527dated 2
Nov.1991 & SU/Affi/T-3/F-21/ 70509 dt. 22
Dec. 2000
- 2) University Approval as a P.G.
Teacher : Ph.D.-SUL/UTY/BUTR/2318/4457 dt.26 Dec.2007
:P.G. Teacher-SOL/UTY/Affi/357/1045 dt. 7
June 2006
- 3) Professor Approval :Reader.- SOS/PG.BUTR/422 dt.4June 2007
Professor:- PAHSU/TA-1/1511 dt 07. Feb. 2020

11. Teaching Experience:

Sr. No.	Name of the course	Institution	Experience
1.	UG B.Sc. Physics	Karmveer Mamasahab Jagadale Mahavidyalaya, Washi Tq. Washi Dist. Osmanabad	07
2.	UG B.Sc. Physics	Shri Shivaji Mahavidyalaya, Barshi Dist. Solapur.	26
3.	PG M.Sc. Solid State Physics	P.G. Dept. of Physics, Dr. B.A. Marathwada University, Aurangabad	02
4.	PG M.Sc. Nano Physics	Shri Shivaji Mahavidyalaya, Barshi Dist. Solapur.	06
		Total Years of Experience	33 UG + 08 PG

Part-B

12. Representation on various academic bodies (BOS, Subcommittees, faculty, academic council, senate, MC, Setting of question papers for UG/PG program, flying squad, senior supervisor etc) of universities/colleges

Sr. No.	Year/tenure	Name of the body/activity in which teacher participated
1.	2011-16	BOS Member in Computer Science & DRC member to Ph.D.
2.	2017-22	BOS Member in Physics
3.	2018	BOS Subcommittee member for B.Sc. III Physics
4	2021-24	BOS Member Walchand Autonomous College
5	2021	CRC/DRC Member for Ph.D. in Physics
6	2021	BOS Subcommittee Member for B.Sc. III and M.Sc. II
7	2022-27	BOS Member in physics
8	2023	BOS Subcommittee Member for B.Sc. I
9	2024	BOS Subcommittee for B.Sc. III
	2019	M.Sc. II SEM III, SCT 3.1 paper setting
10	2018	Internal squad committee member (29 Oct. -17 Nov. 2018)
11	2021	M.Sc. II SEM III, OET 3.1 paper setting
12	2021	M.Sc. Entrance Paper setting
13	2022	M.Sc. II SEM III, OET 3.1 paper setting
14	2024	M.Sc. II SEM III, OET 3.1 paper setting
15	2024	Rajbhavan AVHAN Financial Management subcommittee member (7-16 Nov. 2024 at Amaravati University)

13. Use of ICT enabled tools (ppts, google classroom, YouTube etc.)

Sr. No.	Name of ICT tool used	Class	Title of the topic
1.	Google Classroom	B.Sc. III	Crystallography (2020-21)
2.	PPT	B.Sc. III sem V	X-Ray diffraction (2020-21)
3.	PPT	B. Sc. II sem III	Transistor Amplifier (2021-22)
4	PPT	B. Sc. I sem I	Career Opportunity in Physics
5	PPT	M.Sc. I SEM I	Introduction to Quantum Mechanics

14. Improvement of academic career:

A. Research Papers Published in Journals:

Sr No.	Title with Page Nos.	Journal	ISSN/ ISBN No	Whether peer Reviewed. Impact Factor, if any	No. of co-authors	Whether you are the main author	Year of Publication
1	Praseodymium substitutional effect on superconductivity in $Y_1Ba_2Cu_3O_7$ high temperature superconducting compounds, p (328-330)	Indian Journal of engineering & material science vol-7	0971-4588 Impact factor 0.641	Peer reviewed	3	Yes	Oct-Dec. 2000
2	Magnetic and superconducting properties of substituted Bi-2223 compounds, p-(7-11)	Dr. B.A. M.U. Journal of science Vol. No XXX no-7-2000	-	Peer reviewed	3	Yes	July-2000
3	The role of praseodymium in $Y_1Ba_2Cu_3O_7$ high temperature superconducting compounds, p-(343-345)	Indian Journal of Physics vol.75 A(4)	0019-5480 Impact factor 0.854	Peer reviewed	3	Yes	july-2001
4	Effect of substitution of Ce on Superconducting properties of $Bi_{1.7}Pb_{0.3}Ca_{2-x}Ce_xCu_3O_{10+\delta}$ System, p-(871-875)	Pramana journal of physics India vol-58 No 5&6	0304-4289 Impact factor 0.72	Peer reviewed	3	Yes	2002

5	Mossbauer studies of ^{151}Eu doped high T_c superconducting $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Ca}_{2-x}\text{Eu}_x\text{Cu}_3\text{O}_{10+\delta}$ System- , p-(79-82)	International journal of advanced sci & technical research Issue-2 vol. 3	2249-9954 Impact factor 3.5	Peer reviewed	3	Yes	June. 2012
6	Fabrication of highly efficient and semitransparent ZnO nano material for solar cell –, p- (633-636)	International journal of advanced Sci & technical research Issue-2 vol. 5	2249-9954 Impact factor 3.5	Peer reviewed	3	Yes	Oct. 2012
7	Synthesis of Doped Nano crystalline Material to fabricate low cost Devices. p. 60--62	Int. Jun. of Advances Mate. Tech. & Engi. Sci. Vol. II Issue 7(III)	2249-7455	Peer reviewed	3	Yes	April 2013
8	Synthesis and Characterization of KDP: Mn Single Crystals. p. 70-73	Int. Jun. of Multidisciplinary Research, Vol. II Issue 3(IV)	2277-9302	Peer reviewed	3	Yes	June 2013 p. 70-73
9	Microstructural studies of Eu doped high T_c superconducting $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Ca}_{2-x}\text{Eu}_x\text{Cu}_3\text{O}_{10+\delta}$ System for SEM and Elastic Moduli -P. 4--47	International Jun. of Adv. Sci. & Tech	2249-9954 Impact factor 3.5	Peer reviewed	3	Yes	July-2014
10	Comparative Study of Ce, Eu, and Gd Substituted High T_c Superconducting BiSCCO_{2223} Compounds -P-374--378	International Jun. of Adv. Sci. & Tech	2249-9954 Impact factor =3.50	Peer reviewed	3	Yes	August -2014

11	Synthesis and characterization of Al doped zinc oxide nanorods for TCO applications, P. 220-226	International Jun. of Adv. Sci. & Tech	2249-9954 Impact factor 2.94	Peer reviewed	3	Yes	Nov-Dec. - 2014
12	Spray Pyrolysis Deposited Nano structures Transparent Window Layer for Photovoltaic Applications. P. 29-31	International Jun. of Sci. Res. Vol.3, Issue-2	2277-8179 Impact factor 1.86	Peer reviewed	3	Yes	December 2014
13	Hybrid ZnO Homo p-n Junction Thin Film for Photovoltaic Applications, p. 1-7	Science park Research Journal	2321-8045 I.F. 2.10	Peer reviewed	3	Yes	Jan. 2015
14	Morphological, Electrical and Optical properties of Al-doped Zinc Oxide Nanorods, p (218-221)	International Journal of Advanced Material Research vol.1110	p-1022-6680 e-1662-8985	Peer reviewed	3	Yes	June.2015
15	Al-doped zinc oxide nanostructures as transparent conductive window layer for photovoltaic application, p-872-876	Indian journal of chemistry Vol. 54A	e-0376-4710 p-0975-975 I.F.-0.851	Peer reviewed	2	Yes	July-2015
16	Significant Enhancement in the conductivity of Al-doped Zinc oxide thin films for TCO Application	Inter. Jour. of nano science vol. 15 No-1 1650011-1	p-219-581x e-1793-5350	Peer reviewed	4	Yes	Feb. 2016

17	Effect of Mn doped on structural and optical behavior of Fe ₂ O ₃ nanopartical, pp-63-67	Int. Joun, M &M Studies, Vol.V, Issue-II,	2394 - 207X www.ijmms.in	Peer reviewed	2	Yes	Feb, 2018
18	Structural Study of Mn dopant and optical behavior of Fe ₂ O ₃ nanoparticle, pp 111-114	Int. Jou. of Scientifi Res. In Sci. & Tech	2395-602X 2395-6011	Peer reviewed	2	Yes	April 2021
19	Gain and Limitations of E-learning and Teaching Methodology in Higher Education during Pre and Post COVID-19 at Rural Area, p.106-109	Aayushi International Interdisciplinary Research Journal	2349-638x Impact Factor 7.149	Peer reviewed	2	Yes	Nov. 2021
20	Novel Kohl based sensors for room temperature detection of LPG and NH ₃ : a comprehensive investigation	J Mater Sci:Mater Electron (Springer)	10854-024-13335	Peer reviewed	7	-	August 2024

B. Articles / Chapters published in Books :

Sr.No.	Title with page nos.	Book Title, editor & publisher	ISSN/ ISBN No	Whether peer Reviewed.	No. of co-authors	Whether you are the main author	Year of Publication
1	BiFeO ₃ thin films for electrochemical capacitor performance,	Bhumi Publishing	ISBN - 978-81-931247-6-5	peer Reviewed	4	yes	Jan. 2018

	Effect of Mn doped on structural and optical behavior of Fe ₂ O ₃ nanopar tical	SFPU and ASC, College, Indapur	ISSN: 2394-207X	peer Reviewed	3	yes	ICANM-2018
	Low temperature Synthesis of ZnO nanorods by weight Chemical method	ICAS-2017, SKSM, Ausa-Latur	Internat ional Within country	peer Reviewed	3	yes	Dec. 2017
	Tailoring Al doped ZnO thin film for highly sensitive ethanol sensor	AMDP-2017 SPPU, Pune	Internat ional Within country	peer Reviewed	3	yes	July-17
	A Novel material for NO ₂ gas sensors : Tungsten Nano particle decorated porous BiFeO ₃ upstanding nanoplates	ICFEFSEM -2016, B.G. College, Sangavi-Pune	Internat ional Within country	peer Reviewed	3	yes	10-12 March 2016
2	Deposited ZnO thin films nanomaterial synthesis & application	Int. Conf. DSPM, K.V. Pendarkar College Dombivli Mumbai	ISBN - 978-81-925842-2-5	peer Reviewed	3	yes	Jan. 2015

	Structural and optical properties of cadmium sulfide (CdS) nano crystalline thin films synthesized by spray pyrolysis method.	ICFMNCC-2015) K.B.P. College, Pandharpur	International Within country				2015
	Preparation and characterization of cuprous oxide thin film as a active layer for solar cell.	ICFMNCC-2015) K.B.P. College, Pandharpur	International Within country				9-11 March 2015
	Structural and optical properties of Mn doped octahedral Fe ₂ O ₃ nanoparticle for artificial photosynthesis .	ICFMNCC-2015) K.B.P. College, Pandharpur	International Within country				9-11 March 2015
	Synthesis and Study of Morphological, Electrical and Optical properties of AZO Nanorod-	7 th International AMDP 2014 , BUSAN, KOREA	International (Abroad) KOREA				2014

	Synthesis and Characterization of KDP nanocrystalline by Modified conventional mixing method	Shivaji University, Kolhapur ICPM-MDF-2014	International Within country				
	Rare Earth Tb ³⁺ ions substitution effect on the Structural & magnetic properties of nanocrystalline cobalt ferrite	UGC & SSM, Barshi EHBCN-2013	International Within country				
	Microstructural studies of Eu doped high T _c superconducting Bi _{1.7} Pb _{0.3} Ca _{2-x} Eu _x Cu ₃ O _{10+δ} System for SEM and Elastic Moduli., Ps-26 & page NO-44	NTAFM 2013 MRSI & NCL PUNE	International Within country				July 24-25 . 2013
	Synthesis and Characterization of KDP: Mn Single Crystals., p-54	International (Abroad) BANGKOK THAILAND					20-21 June 2013

	Effect of substitution of Ce on Superconducting properties of Bi _{1.7} Pb _{0.3} Ca _{2-x} Ce _x Cu ₃ O _{10+δ} System- 28-28 September 2001 pp 202	ISASMM2 D-2002, TIFR, Mumbai & Manglore Huversity, MANGLORE	International Within country				
	Structural study of Y _{1-x} P _x Ba ₂ Cu ₃ O _{7-δ} high temperature superconducting compounds- pp-86-95 (2000)	FACSSID -2000 MIT Channai	ISBN 81-7764-025-9				2000

C. Full Papers in Conference Proceedings:

Sr.No.	Title with page nos.	Details of Conference Publication	ISSN/ ISBN No	Whether peer Reviewed	No. of co-authors	Whether you are the main author	Year of Publication

D) Books Published as single author / editor/co-author:

Sr. No.	Title of the Book	Details of Publisher	ISSN/ ISBN No	Whether peer Reviewed	No. of co-authors	Whether you are the main author	Year of Publication

1.	Text book of Physics B.Sc. III Sem-VI, Paper-I	Sai Printing Press. Barshi	ISBN-978-9-35- 126788-1	Yes	3	Yes	Dec. 2013
2	Text book of Physics B.Sc. I Sem-I, Paper-I	Phadke Prakashan Kolhapur	ISBN -978-93- 84123-55-0	Yes	3	Yes	July 2014
3	Text book of Physics B.Sc. I Sem-I, Paper-II,	Phadke Prakashan Kolhapur	ISBN-(978-93- 84123-50-5	Yes	3	Yes	July 2014
4	Text book of Physics B.Sc. I Sem-II, Paper- III	Phadke Prakashan Kolhapur	ISBN -978-93- 84123-84-0	Yes	3	Yes	Dec. 2014
5	Text book of Physics B.Sc. I Sem-I, Paper-I	Phadke Prakashan Kolhapur	ISBN -978-81- 933070-0-7	Yes	3	Yes	July 2016
6	Text book of Physics B.Sc. I Sem-I, Paper-II, ,	Phadke Prakashan Kolhapur	ISBN -978-81- 933070-1-4	Yes	3	Yes	July 2016
7	Text book of Physics B.Sc. I Sem-II, Paper- III	Phadke Prakashan Kolhapur	978-81- 934102-4-0	Yes	3	Yes	Nov. 2016
8	Text book of Physics B.Sc. I Sem-II, Paper- IV	Phadke Prakashan Kolhapur	ISBN -978-581- 934102-5-7	Yes	3	Yes	Nov. 2016
9	Text book of Physics B.Sc. II Sem- III, Paper-V	Phadke Prakashan Kolhapur	ISBN -978-93- 86766-00-7	Yes	3	Yes	July 2017
10	Text book of Physics B.Sc. II Sem-III, Paper- VI	Phadke Prakashan Kolhapur	ISBN – 978-93- 86766-01-4	Yes	3	Yes	July 2017
11	Text book of Physics B.Sc. II Sem-IV Paper- VII	Phadke Prakashan Kolhapur	ISBN -978-93- 86766-36-6	Yes	3	Yes	Dec.2017

12	Text book of Physics B.Sc. II Sem-IV, Paper- VIII	Phadke Prakashan Kolhapur	ISBN -978-93- 86766-43-4	Yes	3	Yes	Jan. 2018
13	Text book of Physics B.Sc. I Sem-I, Paper-I	Phadke Prakashan Kolhapur	ISBN -978-93- 86766-89-2	Yes	3	Yes	July 2019
14	Text book of Physics B.Sc. I Sem-I, Paper-II	Phadke Prakashan Kolhapur	ISBN -978-93- 86766-90-8	Yes	3	Yes	July. 2019
15	Text book of Physics B.Sc. I Sem-II, Paper- III	Phadke Prakashan Kolhapur	ISBN -978-93- 89343-09-0	Yes	3	Yes	Dec. 2019
16	Text book of Physics B.Sc. I Sem-II, Paper- IV	Phadke Prakashan Kolhapur	ISBN -978-93- 89343-10-6	Yes	3	Yes	Dec. 2019
17	Text book of Physics B.Sc. II Sem-III, Paper- V	Phadke Prakashan Kolhapur	ISBN -978-93- 89343-34-2	Yes	3	Yes	September 2020
18	Text book of Physics B.Sc. II Sem-III, Paper- VI	Phadke Prakashan Kolhapur	ISBN – 978-93- 89343-35-9	Yes	3	Yes	September- 2020
19	Text book of Physics B.Sc. II Sem-IV Paper- VII	Phadke Prakashan Kolhapur	ISBN -978-93- 89343-48-9	Yes	3	Yes	January 2021
20	Text book of Physics B.Sc. II Sem-IV, Paper- VIII	Phadke Prakashan Kolhapur	ISBN- 978-93- 89343-49-6	Yes	3	Yes	January 2021
21	Text book of Physics B.Sc. I Sem-I, Paper-I	Phadke Prakashan Kolhapur	ISBN – 978-93- 92336-25-6	Yes	3	Yes	Sept. 2022

22	Text book of Physics B.Sc. I Sem-I Paper-II	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-26-3	Yes	3	Yes	Sept. 2022
23	Text book of Physics B.Sc. I Sem-II Paper-III	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-44-7	Yes	3	Yes	Jan. 2023
24	Text book of Physics B.Sc. I Sem-II Paper-IV	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-45-4	Yes	3	Yes	Jan. 2023
25	Text book of Physics B.Sc. II Sem-III Paper-V	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-74-4	Yes	3	Yes	Nov. 2023
26	Text book of Physics B.Sc. II Sem-III Paper-VI	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-J 493	Yes	3	Yes	Oct. 2023
27	Text book of Physics B.Sc. II Sem-IV Paper-VII	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-97-3	Yes	3	Yes	Feb. 2024
28	Text book of Physics B.Sc. II Sem-IV Paper-VIII	Phadke Prakashan Kolhapur	ISBN -978-93- 92336-68-3	Yes	3	Yes	Feb. 2024
29	Text book of Physics B.Sc. I Sem-I Paper-DSC 1.1	Phadke Prakashan Kolhapur	ISBN -978-93- 89343-90-8	Yes	2	Yes	July 2024

E) Completed Research Projects and Consultancies :

Sr. No	Title	Funding Agency	Period	Grant/ Amount Mobilized	No. of co- Investigators	Whether you are the Principal Investigator
1.	Fibre Optic Temperature and Pressure Sensor and Its Applications F.No.47-89/05 (WOR) dt-16.01.2006.	UGC	3 years	Rs.80,000/-	-	Yes
2	UGC (FIP) contingency grant	UGC	2 years	Rs.22000/-	-	Yes

F) Research Guidance: (Ph.D./PDF/MPhil)

Course	Name of research student	Date of registration	Ongoing/ Date of award
Ph.D.	Mr. Kadam Dheeraj Dhananjay	1 st Jan. 2022	Ongoing
Ph.D.	Mr. Raddi Ajay Kakasaheb	1 st Jan. 2022	Ongoing
Ph.D.	Mr. Rajure Rajkumar Kashinath	1 st Jan. 2021	Ongoing
Ph.D.	Mrs. Shinde Vidya sarjerao	1 st Jan 2021	Ongoing
Ph. D.	Mr. Pawar Sachin	1 st July 2014	Ongoing
Ph. D.	Mr. Mohite ajkumar	1 st July 2012	Feb. 2016

G) Participation in Short Term/Orientation/ Refresher courses/FDP etc.:

Sr.No.	Course	Subject	Organizing Agency	Duration
1	Orientation Course	Science	UGC&. B.A. Marath. University Aurangabad	07/03/1994 to 31/03/1994
2	Refresher Course	Physics	UGC &. B.A. Marath. University Aurangabad	03/11/1997 to 29/11/1997
3	Refresher Course	Physics	UGC & Shri Shivaji University, Kolhapur	22/02/1999 to 15/03/1999
4	NSS Orientation Course	NSS related	HRD Youth and Sport Mini. TOC Ahamadnagar	18-09-1995 to 27-09-1995
5	NSS Orientation Course	Water shade management for sustainable development	HRD Youth and Sport & TOC Tata Institute Mumbai	15-07-2003 to 24-07-2003
6	West Zone Mega Camp	National Integration	Mumbai University & G.J. College, Ratnagiri	27-10-2006 to 6-11-2006
7	National Adventure Training Program.	Adventure Training	HRD Youth and Sport & RGSA Center Manali (H.P.)	13-06-20010 to 22-06-2010
8	Gender Equity Trainers Training	Gender Equity	HRD Youth and Sport & Rajiv Gandhi Training Center Sriperumbudur & RC Pune	1-12-2012 to 07-12-2012
9	ISTE Short Term Training Programme	Engineering Physics	HRD Mini. IIT, Pawai & Walchand Institute of Technology, Solapur	08-12-2015 to 18-12-2015
10	FDP on Virtual Lab	Virtual Lab	Sangmeshwar College, Saolapur & IIT Mumbai	19 th Jan. 2019
11	FDP in Physics	Modern Physics & Material Science	Govt. Holkar (Model, Autonomous)) Science College, Indore (M.P.) [Online]	26-30 May 2020
12	OBS Advanced Course Training Programme.	Computer OBS	Knowledge Bridge Ahemdagar	16-06-2021 to 26-06-2020
13	PMMMNTAT Short Term	ICT Enhanced Teaching MOOCs	HRD Mini. And Shivaji College, N. Delhi	18-08-2020 o 25-08-2020

H) Papers presented in Conferences, Seminars, Workshops, Symposia:

Sr. No.	Date	Title of Paper	Venue	Level & Theme
1	4-6 Dec. 1999, p. 37	The role of praseodymium in $Y_1Ba_2Cu_3O_7$ high temperature superconducting compounds.	Indian Association of Cultivation of Science (JACS), CULCUTTA	National Symposium on Condensed Matter Physics
2	3-7 Jan. 2000- p-23-24	Structural Studies of Praseodymium substituted $Y_1Ba_2Cu_3O_{7-δ}$ high T_c superconducting compounds-	ISCA and Pune University PUNE-	National Eighty Seventh Session of Indian Science Congress
3	3-5 Feb. 2000, p 79	The role of praseodymium in $Y_1Ba_2Cu_3O_7$ high T_c superconducting compounds.	M.S.& S.P. University Vallabh Vidyanagar- BRODA	National, Material Research Society of India
4	24-25 Feb. 2000, Op2-01	Praseodymium substitutional effect on superconductivity in $Y_1Ba_2Cu_3O_7$ high temperature superconducting compounds	(MSTF2000) Sant Longowal Inst. Of Engi. & Technology, SANGRUR (Panjab)	National Material Science:, Trends & Future (MSTF2000)
5	22 March 2000 , p. 86-24	Structural study of $Y_{1-x}P_xBa_2Cu_3O_{7-δ}$ high temperature superconducting compounds	MIT and Anna University CHANNAI	International First Asian Conference on Solid State Ionic Devices & Technology
6	15-16-March 2001- Poster-p-2	Substitutional Effect of Ce on high T_c superconducting Properties of $Bi_{1.7}Pb_{0.3}Ca_{2-x}Ce_xCu_3O_{10+δ}$ System---	UGC and Panjab University, CHANDIGARH	National Conference on Recent Development in Disordered Materials
7	25-28 September 2001 pp 202	Effect of substitution of Ce on Superconducting properties of $Bi_{1.7}Pb_{0.3}Ca_{2-x}Ce_xCu_3O_{10+δ}$ System-	TIFR, Mumbai & Manglore University, MANGLORE	International Symposium Advances in superconductivity& magnetism Material, Mechanism & Devises
8	21&22 Oct.2002- pp-11	Substitution effect of Gd on Superconducting properties of $Bi_{1.7}Pb_{0.3}Ca_{2-x}Gd_xCu_3O_{10+δ}$ System.	UGC & SMM AKLUJ	National Seminar on NSEMCDs 2002

9	14-16 Nov. 2002 pp-19	A PC Based Test laboratory for piezoelectric & pizoceramic devices used in biomedical and electronic instruments	UGC, IAPT & Sarna . Bashweshwar College of Science, GULBARGA	National 17 th IAPT Convention & Theme Symposium
10	14-16 Nov. 2002, 29-O pp-22	A Modified approach for experimental demonstration using VL simulation tool and PC interfacing	UGC & IAPT & Sarna . Bashweshwar College of Science, GULBARGA	National 17 th IAPT Convention & Theme Symposium.
11	11-13 Feb. 2003- p-173	Substitutional Effect of Ce on high T_c superconducting Properties of $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Ca}_{2-x}\text{Ce}_x\text{Cu}_3\text{O}_{10+\delta}$ System	Material Research Society of India And Bhabha Atomic Research Centre MUMBAI	National 1 4 th Annual General Meeting and Theme Symposium on Novel Polymeric Materials
12	24-26 March 2003, O-3	The Effect of Europium Substitution in Bismuth (2223) High Temperature Superconductors.	ICC & Jadhvpur University, KOLKATA	19 th National Symposium on Cryogenic NNSC-2003
13	24-26 Sept. 2004- p-51	Substitutional Effect of Eu on high T_c superconducting Properties of $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Ca}_{2-x}\text{Eu}_x\text{Cu}_3\text{O}_{10+\delta}$ System-	Panjab University, UGC and DAV College AMRITSAR-	National Conference on Advanced Materials and Technology.
14	28-29 Dec. 2005 p-23	Studies of SEM, Porosity and Bulk density of Eu substituted Bi_{2223} high T_c Superconducting Compounds	UGC & Shri Shivaji Mahavidyalaya, BARSHI	State level Seminar on Recent Materials, Devices & Tech in Physics and Ele. RMDT-2005.
15	28-29 Dec. 2005 p-23	High T_c Superconducting Materials–Some Challenging Problems	UGC & Shri Shivaji Mahavidyalaya, BARSHI	State level Seminar on Recent Materials, Devices & Tech. in Phy. and Elec. RMDT-2005
16	21-23 Oct. 2006 p-78-82	Computer Interface with Physics Experiments in Laboratory	IAPT & Rama Devi Women Autonomous College, BHUBANESHWAR	National IAPT Symposium on Impact of Information Technology on Physics Education

17	29-31 Jan. 2007 P-52	Mossbauer studies of ^{151}Eu doped high T_c superconducting $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Ca}_{2-x}\text{Eu}_x\text{Cu}_3\text{O}_{10+\delta}$ System- NCMRT-2000	UGC and Dr. B. A. M. University, AURANGABAD.	National conference on current Trends in Materials Research for Advance Technology
18	27-29 Oct. 2007 P-26	Creation of E-contents for Basic Course in Physics	IAPT & Himachal Pradesh University SIMALA.	17 th Annual IAPT Convention & Seminar on New Direction of Physics Education in the New Millennium.
19	17-19 Oct. 2008P-106 -108	Simulation of Digital Logical Gates using Mulley Operated Electrical Switching System	IAPT & Indian Academic Degree College, BENGALORE,	National Seminar on Impact of Physics on Biological Sci.
20	23-24 Jan.2009 P.55	“New Approach of Fiber Optics Temperature Sensor” Souvenir -	UGC & Rajarshi Shahu Mahavidyalaya, Rajarshi Shahu Mahavidyalaya, LATUR	National seminar on Photonic materials and Nanotechnology
21	21-23- Oct. 2010 P-365-366	Effective Teaching of Physics through Demonstration (Third Best Paper Award)	IAPT & Saurashtra University RAJKOT	National 25 th Annual IAPT Convention & Seminar on Frontiers of Astronomy and Astrophysics
22	2-4 Nov. 2012 -p7- 15	Studies on Growth and Optical Properties of KDP: Mn Photonic Single Crystal	IAPT & International School of Photonic cochin University, COCHIN	National 27 th Annual IAPT Convention & Seminar on Recent Trends in Photonic
23	18 -03- 2013 – Oral-12 p- 27	Synthesis of Doped Nano crystalline Material to fabricate low cost Devices.	INAAR, Indo global, Asia & Indapur College held at PUNE	1 st International Conf. on Phy, Math & Engi. Science
24	20-21 June 2013 , p-54	Synthesis and Characterization of KDP: Mn Single Crystals.	INAAR, Indo globe & Inadapue college held at <u>BANGKOK</u> <u>THAILAND</u>	International Conf. on Materials, Chemical & Life Sciences
25	July 24-25 . 2013, Ps-	Microstructural studies of Eu doped high T_c superconducting $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Ca}_{2-x}\text{Eu}_x\text{Cu}_3\text{O}_{10+\delta}$	NTAFM 2013 MRSI & NCL PUNE	International

	26& pageNO-44	System for SEM and Elastic Moduli.		Workshop on nano technology & Advanced Functional Material
26	28-30 Nov.13, PP-75 p.No-87	Effect of Eu doped high T _c superconductor in Bi _{1.7} Pb _{0.3} Ca _{2-x} Eu _x Cu ₃ O _{10+δ} System for SEM and Elastic Moduli	UGC and Shri Shivaji Mahavidyalaya , BARSHI ,	International Conference, EHBCN-2013
27	28-30 Nov. 2013, PP- 86 p.No-98	Rare Earth Tb ³⁺ ions substitution effect on the Structural & magnetic properties of nanocrystalline cobalt ferrite	UGC and Shri Shivaji Mahavidyalaya , BARSHI ,	International Conference, EHBCN-2013
28	28-30 Nov.2013, PP-95 p.No-107	Development & Characterization of Zinc Oxide Nanoparticles by CBD	UGC and Shri Shivaji Mahavidyalaya , BARSHI ,	International Conference, EHBCN-2013
29	13-15 January 2014- p-87	Synthesis and Characterization of KDP nanocrystalline by Modified conventional mixing method	Shivaji University KOLHAPUR	International- ICPM-MDF-2014
30	17-20 July 2014 Op-129	Synthesis and Study of Morphological, Electrical and Optical properties of AZO Nanorods.	Korea Maritime & Ocean University, BUSAN, KOREA	International 7 th AMDP-2014
31	22-23 Dec. 2014	Structural and Electrical properties of Al doped ZnO nanomaterial.	UGC & Sangola college, SANGOLA	National seminar on Recent trends in nanomaterial and their applications.
32	5-6 Jan.2015 p-17	Influence of indium doping on the properties of spray deposited zinc oxide thin films	UGC, DST & K.V. Pendharkar College, DOMBIVLI, MUMBAI	Inter. conference on Nanomaterial for Sust' Green Technology. (ICNSGT-2015)
33	9-11 March 2015 p-116	Structural and optical properties of Mn doped octahedral Fe ₂ O ₃ nanoparticle for artificial photosynthesis.	UGC, DST & K.B.P. College, PANDHARPUR	International conference on functional materials @ Nanoscale Concern and challenges

34	9-11 March 2015 p-123	Preparation and characterization of cuprous oxide thin film as a active layer for solar cell.	UGC, DST & K.B.P. College, PANDHARPUR	International conference on functional materials @ Nanoscale Concern and challenges (ICFMNCC-
35	9-11 March 2015 p-146	Structural and optical properties of cadmium sulfide (CdS) nano crystalline thin films synthesized by spray pyrolysis method.	UGC, DST & K.B.P. College, PANDHARPUR	International conference on functional materials @ Nanoscale Concern and challenges (ICFMNCC- 2015)
36	10-11 March 2016 p-111	Structural and Electrical properties of Aluminum doped Zinc oxide thin film by Spray pyrolysis method pp-074-111	UGC & B.G. College Sangvi PUNE	International conference on functional eco-friendly smart emerging materials
37	10-11 March 2016 p-33	A Novel material for NO ₂ gas sensors : Tungsten Nano particle decorated porous BiFeO ₃ upstanding nanoplates op 17-33	UGC & B.G. College Sangvi PUNE	International conference on functional eco-friendly smart emerging materials
38	15-17 July- 17	Tailoring Al doped ZnO thin film for highly sensitive ethanol sensor, pp	SPPU, Pune	International AMDP-2017
39	21-22 Dec. 2017	Low temperature Synthesis of ZnO nanorods by weight Chemical method	SKSM, Ausa-Latur	International ICAS-2017
40	18 Jan. 2018	Effect of Mn doped on structural and optical behavior of Fe ₂ O ₃ nanoparticle	SFPU and ASC, College, Indapur	International ICANM-2018,
41	9-10 April 2021	Structural Study of Mn dopant and optical behavior of Fe ₂ O ₃ nanoparticles	Sangola Mahavidyalaya, Sangola	Online International Conf. on nano material and Nano technology (ICNM-2018)

D) Attended Seminars/Workshops/Conferences etc. :

Sr. No.	Title of Conference / Seminar	Organized by	Level (International National etc.)	Duration	Mode of Participation
1	2 Days workshop on Educational Video Making	D.B.F. Dayanand & Rotary Club Solapur	State	13-14 Oct. 2018	Participant
2	International workshop on Untold History of United states & concept of Nuclear Energy	PAHS, University, Solapur	International	4 Jan 2019	Participant
3	One day National Conference on NTAC	DBAMU & ACS, College Kille-Dharur	National	14 th Feb. 2019	Paper Presented
4	International workshop on LIGO-India	IUCAA, Pune, ISRO, Bengaluru & SRTMU, Nanded	International	15-16 Dec. 2019	Participant
5	Interaction Meet of Physics-Electronics Teacher & Students	School of Phydical Science, PAHSU, Soalpur	University	9 th Jan. 2020	Participant
6	International Conference on RAPCS	Sangola College Sangola	International	22th Jan. 2020	Online Participant
7	Laboratory Safety & Disaster Management	Dept. of Physics, SSM, Barshi	State	25 th Feb. 2020	Co convener
8	National Webinar on E-Content Creation & E-Learning	Shivaji University, Kolhapur	National	29-30 May 2020	Online Participant

	through MOOCsS				
9	One Day National Webinar on Changes in Hig. Edu. & Roll of NAAC : Post Covid-19	PAHSU, Solapur	National	10 th June 2020	Online Participant
10	Teachers Training on Edu. in Digital Era: Tools & Techniques	Digi Bharati & Comp. Sci. Dept., SPPU, Pune	National	11-12 June 2020	On line Trained
11	2 Day National Webinar on Role of NSS in the Preparedness Amidst Disasters	RD, NSS, Pune, NSS cell Govt. of Maha. & KBCNMU, Jalgaon	National	12-13 June 2020	Online participant
12	National Webinar on Learning Physics: Opportunities in Difficulties	DBF Dayanand College of Arts & Science, Solapur	National	26 th June 2020	Online participant
13	Workshop on RTI	SSM, Barshi & Yashada, Pune	State	10 th Oct. 2021	Participant
14	Workshop on NEP-2020	BPSCC, Barshi	University	8 th Sep. 2022	Participant
15	Workshop on Syllabus discussion at B.Sc.III (Physics)	PAHSUS & DF Dayanand College Solapur	University	8 th Jan. 2022	Participant & Resource Person
16	Value of Arts in Life	MSFDA and J. J. School of Art, Mumbai	State	10-12 June 2022	Participant

17	Rational Thinking Cell	MSFDA, Pune	State	13-15 Nov. 2022	Participant & Team Leader
18	State Level NSS PO, Conference	NSS cell Govt. of Maha. & NSS SPPU, Pune	State	26-27 May 2023	Organizer

J) Invited Lectures and Chairmanships, Speaker, Chief Guest at national or international conference/seminar /Others etc. :

Sr. No	Title of Lecture/ Academic Session	Title of Conference / Seminar etc	Organized by	Whether international / national	Date
1	Synthesis and Characterization of Nano Material for Solar Cell Applications	Nanomaterials and their Applications Critical	Arts, Science and Commerce College, Kille-Dharur Dist. Beed	National	14 February 2019
2	Session Chairman	RTNA-2021	Vidnyan Mahavidyalaya, Sangola Dist. Solapur	International	9 October 2021
3	Scientific Attitude and Proper use of Advance Technology	National Science Day	College of Education, Barshi	University	28 February 2022
4	National Service Scheme and Youth Role	Seminar	T. J. Arts, Commerce and Science College, Khadaki Pune	National	24 January 2023
5	Cleanliness is the Service	Cleanliness is the Service Orientation Programme and Rally	Jaykranti Arts, Science and Commerce Sr. College, Latur	University	30 September 2023

6	Role of Volunteer in NSS Regular and Camp Activities	NSS Annual Camp Inauguration Function Chief Guest	Arts, Science and Commerce College, Indapur Dist. Latue	University	23 January 2024
7	Overall Development of Volunteer and NSS	NSS Annual Camp Valedictory Function Chief Guest	S. M. G. R.G. Shinde Mahavidyalaya, Paranda Dist. Dharashiv	University	14 February 2024

1. **Chairperson for international conference on Advanced Materials Development & Performance at Korea Maritime and Ocean University, Busan- KOREA. .**
2. **Chairperson on National seminar on Recent trends in nanomaterial and their applications at Sangola Mahavidyalaya, Sangola.**
3. **Chairman International e-conference on Advanced Nanomaterial and Techniques Organized by IQAC, VM, Sangol on 22 April 2021**
4. **Organizing Committee Member for State Level Conference on Recent Materials, Devices & Technology in Physics and Electronics held at Shri Shivaji Mahavidyalaya, Bardhi.**
5. **Organizing Coordinator for State level workshop on Agricultural-Problems, Development and progress at Shri Shivaji Mahavidyalaya, Barshi.**
6. **Organizing Secretary for State level selection Camp on Pre-State level Republic day Selection and Training Camp at Shri Shivaji Mahavidyalaya, Barshi.**
7. **Organizing Coordinator for State level workshop on Effect of Global Warming and Its Remedy held at Shri Shivaji Mahavidyalaya, Barshi.**
8. **Organizer for Regional One day work shop for Red Ribbon Club (RRC) Members On HIV-AIDS held at Shri Shivaji Mahavidyalaya, Barshi**
9. **Organizing Committee Member for State level AVHAN Training camp on Disaster management held at Solapur University, Solapur.**
10. **Organizing Committee Member for State level Utkrsh Cultural competition on Social and Cultural Activity for NSS Volunteers held at Solapur University, Solapur.**
11. **Organizing Coordinator for State level workshop on Effect of Global Warming and Its Remedy, Leadership Development and Disaster Management held at Shri Shivaji Mahavidyalaya, Barshi.**
12. **Organizing Co-coordinator for International conference on EHBCN-2013 held at Shri Shivaji Mahavidyalaya, Barshi.**
13. **Organizer for one day workshop on Self Defense Training for Women in Shri Shivaji Mahavidyalaya, Barshi.**

General talk/ Lectures:

1. Delivered a Lecture on the subject 'Me and My Role in NSS' in Leadership Development and Disaster Management Training Workshop held at C. B. Khedagi College, Akkalkot.
2. Delivered a Lecturer on the subject 'Types of Disaster and its remedy' in 3 day Workshop held at Shri Shivaji Mahavidyalaya, Barshi.
3. Delivered a Lecturer on the subject 'Journey to KOREA and their Culture and Technology' in Staff Academy at Shri Shivaji Mahavidyalaya, Barshi.
4. Delivered a Lecturer on 'Nano Technology and Its application to the Society' in Institute Research Meet.
5. Delivered a Lecture on the Subject Krantiveer Bhagt Shing and youth to the Bhagat Shing Vidhyarthi Parishad Barshi Branch.
6. Delivered a Lecture on National Science Day in (C.V. Raman Lecture Series) in S.M.G. R.G. Shinde Mahavidyalaya, Paranda Dist. Osmanabad.
7. Delivered a Lecture on Planning of Social Service Campaign in College of Education Barshi
8. Delivered a Lecture on Nano Material for Solar cell Applications in National Conference held at Arts, Commerce and Science College Kille-Dharur Dist Beed.
9. Delivered a Lecturer on Research Methodology to P.G. Science Students of Arts, Science and Commerce College Indapur Dist. Pune
10. Delivered a lecturer on 'Proper use of Science and technology' to B.Ed. students on occasion of Science Day 28 Feb. 2021 in the College of Education Barshi.

K) Service to Community/ Social Work :

Sr. No.	Type of social Service	Date/year
1	Worked as State Liaison Officer and Officer on Special Duty NSS, HTED, Govt. Maharashtra, Mumbai	20 January to 16 October 2023

- Participation in Pulse Polio Immunization Programme from 2000 to 2015.
- Participation in Blood donation camp and organized Blood donation Camp in College.
- Participation in Aids awareness Rally at Barshi.
- Participation and Organization of Street play on AIDS, Farmer, Save Girl, Cleanliness and save trees at Barshi and adopted villages.
- Participation in Sant Gadage Baba Swachhata Abhiyan at Barshi and adopted villages.
- Worked as an Examiner in Sanstha level Science Exhibition at Barshi.

Contribution to Shri Shivaji Shikshan Prasarak Mandal, Barshi.

- **Member of Disciplinary, Volunteers, Stage Committee of Karmveer Jayanti Mahotsav.**
- **Member of Research Committee of SSPM, Barshi**
- **Coordinator for Blood donation camp organized on the occasion of Karmveer Jayanti.**
- **Chairman for Volunteers batches committee of Karmveer Jayanti Mahotsav.**
- **Chairman for Examiner committee Karmveer Jayanti Mahotsav rally (Samaj Din).**

Visit and worked at Reputed Institutes in India

1. **Tata Institute of Fundamental Research (TIFR), Mumbai**
2. **Bhabha Atomic Research Centre (BARC), Mumbai**
3. **National Physical Laboratory (NPL), New Delhi**
4. **Defense Metrological Research Laboratory (DMRL), Hyderabad**
5. **Osmania University, Hyderabad (Department of Physics)**
6. **Indian Institute of Science and Education (IISER), Pune**
7. **National Chemical Laboratory (NCL), Pune**

Social Responsibility in COVID-19 pandemic Situation

150 Mask were distributed free of cost with awareness program regarding use of Mask, Sanitizer and Physical distance to 1. Z. P. Primary School Kothalwadi 2. Z.P. Primary School Paradhi Vasti (S.T.), Kothalwadi and honored Covid-19 front worker Kothalwadi Tq. Kallam. Also awareness program to our college students regarding use of Mask at crowd places, use of sanitizer time to time, keeping Physical distance everywhere and Vaccination awareness. In pandemic situation Economical help to CM fund (Rs.5000). Matrubhumi Pratisthan for Oxygen cylinder (Rs.5000), Annapurna Yogena (Rs.2000) with 50 kg wheat & 50 kg Onion they provided food in hospital needy people in lockdown period free of cost. I served there for food packing and distribution.

In pandemic situation specially rural area I had prepared COVID-19 Awareness 'DAWANDI' also wrote family experience regarding to cure COVID-19 by online treatment on face book and what's up social media

L) Achievement / Awards:

Sr. No.	Title of the award	Name of awarding agency	Year of award
1	Environment Messenger Award	NSS, PAHS University, Solapur and Harit Mitra Parivar Lok Vidyapith, Pune	2023
2	Certificate of Excellence	India-International Cooperation and Friendship Forum	2021
3	Best Teacher Award	PAHS University, Solapur	2017
4	Mahatma Phule Best Teacher Award	Dr. Panjabrao Deshmukh National Teacher Council	2016
5	Best NSS Programme Officer Award	Higher & Technical Education Maharashtra Government	2013
6	Bharat Shikshan Ratna Award	Global Society for Health & Education Growth, New Delhi	2012
7	Best NSS Programme Officer First Prize Award	PAHS University, Solapur	2011-12
8	Best NSS Programme Officer First Prize Award	PAHS University, Solapur	2008-09
9	Appreciation Award Excellent Achievement in Research	Rotary Club, Barshi Branch	2002

M) Member of professional bodies, NGOs, associations etc(June 2018 to May 2024)

Sr. No.	Name of the professional bodies, NGOs, associations etc	Year of membership	Type of membership (yearly/life member)
1.	Matrubhumi Pratisthan, Barshi	2018	Life Member
2.	Nisarg va Samajic Paryavaran Pradushan Nivaran Mandal, Maharashtra	2023	Life member

- **Life Member of Indian Science Association (ASCA).**
- **Life Member of Indian Association Physics Teacher (IAPT)**
- **Life member of Red Cross Society of India, Barshi Branch**
- **Life member of Vidnyan Marathi Parishad**
- **Life member of Marathi Sahitya Parishad Barshi Branch**
- **Member of Miboli Mandal Barshi**
- **Member of Matrubhumi Pratisthan, Barshi**
- **Member of Akhil Bharatiya Rashtriya Shikshak mahasangh Affiliated to PAH Solapur University, Solapur**

N) Promotions under CAS

Sr. No.	AL-11/12/13A/14	Date of promotion
1	Professor 13A-14	20-01-2020
2	Associate Professor	1-1-2006
3	Sr. Scale Lecturer	2004



Dr. Rameshwar Kothawale
HOD Physics & Computer Science