



# KADAM RAMKRISHNA HARIDAS

Professor

**M.Sc. Ph.D. (Physics)**

**Birth Date: June 27, 1979**

## ADDRESS (OFFICE)

Department of Physics,  
Shrikrishna Mahavidyalaya,  
Gunjoti, Tq. Omerga,  
Dist. Osmanabad (M.S.)  
India - 413 606

## ADDRESS (HOME)

### PERMENANT

'Manjula' Shivaji Chowk,  
At. P. Jalkot, Tq. Tuljapur,  
Dist. Osmanabad (M.S.)  
India - 413 602

## ADDRESS (HOME)

### PRESENT

Flat No. 07,  
Vitthal Apartment, Opposite  
Lagaskar Building, Behind  
Prajapita Brahmakumari  
meditation center, Old Ausa  
Road, Latur (M.S.) 413 512

## TELEPHONE

09423450152

## E-MAIL

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## LANGAUGES

Marathi  
Hindi  
English

## EDUCATION

- |             |  |               |
|-------------|--|---------------|
| <b>2006</b> | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.<br><i>Title of Thesis: Measurement of a Mass Attenuation Coefficient of Gamma Radiations in Materials.</i> | <b>Ph.D.</b>  |
| <b>2001</b> | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.<br><i>Passed in First Division with subject Physics<br/>Specialization: Nuclear Physics</i>                | <b>M. Sc.</b> |
| <b>1999</b> | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.<br><i>Passed in First Division with subjects Physics, Chemistry and Mathematics</i>                        | <b>B. Sc.</b> |

## PROFESSIONAL EXPERIENCE

- Presently working as Professor in Physics at Shrikrishna Mahavidyalaya, Gunjoti since 28.12.2022
- Worked as an Associate Professor in Physics at Shrikrishna Mahavidyalaya, Gunjoti during 17.10.2019 to 27.12.2022.
- Worked as an Assistant Professor in Physics at Shrikrishna Mahavidyalaya, Gunjoti during 17.10.2007 to 16.10.2019.
- Worked as Lecturer on Contract Basis at Govt. Engg. College, Amravati during January 2006 to July 2006.
- Worked as Lecturer on Contract Basis at Jawaharlal Nehru Engg. College, Aurangabad during August 2005 to January 2006.
- Worked as Contributory Lecturer at Department of Physics, Dr. B. A. M. University, Aurangabad during 2003 to 2005.
- Worked as Contributory Lecturer at Vivekanand College, Aurangabad during 2001 to 2003

## OTHER

- Secured Fourth Merit of the University at M.Sc. Level
- Passed MSCIT with 84% of Marks.
- Recognized PG Teacher of Dr. B. A. M. University, Aurangabad.
- Recognized Ph.D. Guide of Dr. B. A. M. University, Aurangabad.

## MEMBERSHIP (SCIENTIFIC BODIES)

- Life member of Indian Science Congress Association, Kolkatta.
- Life member of Indian Physics Teachers Association, Kanpur

## TRAININGS

Orientations	: 02
Refreshers	: 02
Summer School	: 01
STC	: 03
FDP	: 05

- ❖ Attended FDP (Online) on 'Stress Management' conducted by Punjab University Chandigarh and ATAL Academy during 20.11.2020 to 24.11.2020.
- ❖ Attended FDP (Online) on 'Photonics' conducted by R. S. College, Latur and ATAL Academy during 03.11.2020 to 07.11.2020.
- ❖ Attended FDP (Online) on 'Moodle' conducted by MGM University Aurangabad and IIT Mumbai during 07.05.2020 to 12.05.2020.
- ❖ Attended FDP (Online) on 'SciLab' conducted by R. S. College, Latur and IIT Mumbai during 01.05.2020 to 07.05.2020
- ❖ Attended FDP (Online) on 'ICT Tools' conducted by SRTMU Nanded during 27.04.2020 to 02.05.2020.
- ❖ Attended FDP on 'Cyber Security' at R. S. College, Latur during 16.09.2019 to 21.09.2019.
- ❖ Attended FDP on 'Cyber Security' at Y. C. College, Karad, Dist. Satara during 02.07.2019 to 08.07.2019.
- ❖ Attended STC on 'Gender Sensitization' at HRDC, GNDU, Amritsar during 13.09.2017 to 19.09.2017.
- ❖ Attended a training program 'Train the Trainee' at Infosys, Pune during 12.07.2017 to 19.07.2017.
- ❖ Attended STC on 'Nanoscience and Nanotechnology' at HRDC Aurangabad during 29.08.2016 to 03.09.2016.
- ❖ Attended Refresher Course on 'Disaster Management' at HRDC, Kumaun University, Nainital (Uttarakhand) during 28.09.2015 to 19.10.2015.
- ❖ Attended NSS - Orientation course at ETI-Ahmednagar College, Ahmednagar during 21.08.2015 to 27.08.2015
- ❖ Attended Refresher Course on 'Environmental Studies' at HRDC Aurangabad during 05.08.2013 to 26.08.2013.
- ❖ Attended Summer School on 'Higher Education' at UGC-ASC Aurangabad during 23.07.2012 to 11.08.2012.
- ❖ Attended Two Week Short Term Course on 'Research Methodology' at M. S. Bidve Engg. College, Latur during 25.06.2012 to 04.07.2012.
- ❖ Attended Orientation Course at UGC-ASC Aurangabad during 02.12.2009 to 29.12.2009.

## EXAMINATION WORK

- ❖ Worked as Subject Expert for SARTHI, Maharashtra, Pune.
- ❖ Worked as evaluator for University level AVISHKAR Competition.
- ❖ Worked as Paper Setter at UG and PG level for the subject Physics.
- ❖ Worked as Subject Expert for local appointments in Physics.
- ❖ Worked as Seating Squad for University Examinations.
- ❖ Worked as Flying Squad for University Examinations.
- ❖ Worked as J.C.S. For University Examinations.
- ❖ Worked as External Examiner for examinations of YCMOU, Nasik.
- ❖ Worked as External Examiner for Practical Examinations.
- ❖ Worked as Officer for University D-CAS Center.
- ❖ Worked as Examiner for Ph.D. Thesis evaluation.



## OTHER RESPONSIBILITIES

- ❖ Worked as Chairman/Member of Affiliation Committee for Various Colleges.
- ❖ Worked as Co-ordinator of COP in Information Technology during 2009 to 2014.
- ❖ Worked as Co-ordinator for the Course Domestic Data Entry Operator, run by NSDC, New Delhi.
- ❖ Worked as Program Officer of NSS at College Level during 2015-16 to 2018-19
- ❖ Worked as Area Co-ordinator of NSS for Omerga and Lohara Tahselis for the years 2016-17 to 2018-19.
- ❖ Worked as District Co-ordinator of 'Avishkar' during 2016-2021.
- ❖ Member of Board of Studies for Physics at 'Rajarshi Shahu College' Latur (Autonomous) during 2016-17 to 2017-18 and 2021-22 to 2022-23.
- ❖ Working as Co-ordinator and member of various college committees.
- ❖ Delivered invited talks in National/International conferences.

## AWARDS

- ❖ University level 'Best NSS Program Officer' for the year 2017-18 awarded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ❖ 'Outstanding Contribution in Reviewing' for the year 2015 awarded by Materials Research Bulletin.
- ❖ 'Outstanding Contribution in Reviewing' for the year 2018 awarded by Journal of Magnetism and Magnetic Materials.

## PATENTS

- ❖ Granted Innovation Patent by Government of Australia.  
*Title: 'Composite of Polyaniline and Hexaferrite as a Microwave Absorber Material and Procedure thereof'*  
**Patent No. 2021106396 Date: 22.08.2021 Term: 8 Years**

## RESEARCH ACTIVITIES

### PUBLICATIONS

- ❖ Research Papers Published
  - International Journals :63
  - National Journals :21
  - International/National Conference Proceedings (Full length) :40
  - Abstracts in Conferences :19
- ❖ Books Published :08

### CONFERENCE / SEMINAR / WORKSHOP / SYMPOSIA ATTENDED

- International Conferences :07
- National Conferences :22
- Seminars :18
- Workshops :16
- Symposia :08

### RESEARCH IMPACT

- Documents in International Database :90
- Total Impact Factor :144.8
- Total Citations and 'h' index (Scopus) :1670 (h index: 27)
- Total Citations and 'h' index (Google Scholar) :1977 (h index: 27)
- 'i10' index :41
- Research interest Score (Research Gate) :915

**RESEARCH PROJECTS**

❖ **Major Projects : 01**

❖ **Minor Projects : 04**

Sr. No.	Title of the Project	Funding Agency	Amount Sanctioned	Status
01	Nanocrystalline ferrite Powders: Synthesis, electrical and magnetic properties.	UGC (WRO) Pune	1,40,000/-	Completed
02	Structural and electrical properties of sol-gel synthesized ferrite nano particles.	Dr. B. A. M. University, Aurangabad	10,000/-	Completed
03	Magnetic ordering and hyperfine interactions in magnetic semiconducting nano-particles.	UGC, New Delhi	7,52,719/-	Completed
04	Sol-gel synthesized ferrite nano-particles: Structural and magnetic interactions.	Dr. B. A. M. University, Aurangabad	25,000/-	Completed
05	Studies on structural and electrical behavior of some substituted magnetic semiconducting nano-particles.	Dr. B. A. M. University, Aurangabad	35,000/-	Completed

**RESEARCH GUIDANCE**

❖ Number of students Completed Ph.D. : **07**

❖ Number of Students registered for Ph.D. : **06**

Sr. No.	Name of Student	Topic of Research	Date of Registration	Status
01	<b>Dr. A. R. Biradar</b>	Structural, Electric and Magnetic Properties of sol-gel synthesized ferrite nano-particles.	June-2009	Awarded
02	<b>Dr. A. P. Birajdar</b>	Structural and Magnetic Behavior of Nano-sized ferrite powders prepared through sol-gel auto-combustion technique.	June-2009	Awarded
03	<b>Dr. Kirti Desai</b>	A systematic investigation on the structural, electrical and magnetic properties of some substituted spinel ferrite nano-particles.	June - 2010	Awarded
04	<b>Dr. S. R. Wadgane</b>	Synthesis, characterization and studies on magnetic properties of magneto-electric nanocomposites.	Jan. 2015	Awarded
05	<b>Dr. S. S. Satpute</b>	Sol-Gel synthesis: Structural and Magnetic interactions in Nano Sized Mixed Metal Oxides	Jan. 2015	Awarded
06	<b>Dr. G. B. Todkar</b>	Role of higher magnetic and ionic radii dopants on the structural, magnetic and electrical properties of ferrite compounds.	Jan. 2015	Awarded
07	<b>Dr. S. S. Choudhari</b>	Piezomagnetic - piezoelectric composites: studies on magnetoelectric and dielectric properties.	Jan. 2015	Awarded
08	<b>Mr. Ravi Shitole</b>	Crystallographic, magnetic and electrical properties of doped ferrite nanoparticles fabricated by sol-gel technique.	Jan. 2015	Final Synopsis Submitted
09	<b>Mrs. Arti Ingle</b>	Development of magnetic oxide nano-crystals and characterization for technological applications.	Oct. 2021	In Progress
10	<b>Mr. Sandesh Rathod</b>	Structural, magnetic and electrical properties of trivalent ion substituted yttrium aluminum iron garnet nano-crystals.	Oct. 2021	In Progress



Sr. No.	Name of Student	Topic of Research	Date of Registration	Status
11	<b>Mr. Shivraj R. Manegopale</b>	Study of molecular interactions in liquid mixture using spectroscopic techniques.	Oct. 2021	In Progress
12	<b>Mr. Prakash Ghuge</b>	Study of soft/hard magnetic composites for technological applications.	Oct. 2021	In Progress
13	<b>Mrs. Rashmi A. Thite</b>	Design of pure and substituted ferrite materials for rare earth - free permanent magnet.	Oct. 2021	In Progress

### **EDITORIAL BOARD MEMBER**

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- ❖ Member of Editorial Board of Bio-Nano Frontier (Special Issue) Published in February 2010
- ❖ Member of Editorial Board of Bio-Nano Frontier (Special Issue) Published in January 2011.
- ❖ Associate Editor of International Journal of Basic and Applied Research.
- ❖ Editorial Board Member of Innovations in Corrosion and Materials Science.
- ❖ Editorial Board Member of Current Smart Materials.

### **REVIEWER OF THE JOURNALS**

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- ❖ Journal of Applied Physics
- ❖ Journal of Physics and Chemistry of Solids
- ❖ Journal of Alloys and Compounds
- ❖ Journal of Chemical Engineering and Materials science
- ❖ Journal of Sol-gel science and technology
- ❖ Physica - B
- ❖ Journal of Magnetism and Magnetic Materials
- ❖ Materials Research Bulletin
- ❖ Journal of Molecular Structure
- ❖ Materials Letters
- ❖ Materials Chemistry and Physics
- ❖ Ceramics International
- ❖ International Journal of Hydrogen Energy
- ❖ Materials science and engineering B
- ❖ Journal of Metals, Materials and Minerals

### **CONFERENCE/SEMINARS ORGANIZED**

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- ❖ Member of 'Advisory Committee' of National Conference on 'Innovations in Nanomaterials and Nanotechnology - 2017' at Rajarshi Shahu College, Pathri, Aurangabad.
- ❖ Organizing Secretary of the National Conference on 'Advancement of Nanoscience in Different Technologies ( NCANDT -2010)' held at Shrikrishna Mahavidyalaya, Gunjoti during 10-11 February 2010.
- ❖ Member of Organizing Committee of the National Conference on 'Role of non-agricultural institutions in the improvement of Agricultural technology' held at Shrikrishna Mahavidyalaya, Gunjoti during 22-23 January 2011.
- ❖ Member of Organizing Committee Member of National Conference on 'Innovations in Nanomaterials and Nanotechnology - 2017' at Rajarshi Shahu College, Pathri on 21<sup>st</sup> January 2017.
- ❖ Member of Advisory Board of International Conference on 'Materials Science and nanotechnology' organized during 17-19 December 2020.

## **RESEARCH EXPERTISE AND INTEREST**

Presently, I am interested in the field of Nanoscience and Nanotechnology, especially in the field of nanoscale magnetic materials. Magnetic nanoparticles research, as a field, had always fascinated me right from my under graduate college days. I believe my penchant for this field stems from the fact that nanoparticle research issue are increasing day by day in all over the world. My educational background has instilled in me the qualities required to meet the rigor of this demanding profession. Last twenty years provides me a strong foundation in understanding the structural, morphological, elastic, magnetic, electrical and dielectric properties of pure and substituted metal oxides and ME composites. I have accomplished the structural, morphological, elastic, magnetic and electrical properties by TG-DTA, XRD, XRF, HRTEM, FESEM, EDAX, Color mapping, FTIR, VSM, AC/DC resistivity and dielectric constant measurements. Rietveld refinement of the XRD patterns can be done by using Expert Highscore and FullProf softwares. Having expertise in other softwares such as Powder-X, Image - J, Vista, Origin etc.

**Date: / /2023**

**Place: Gunjoti**

**Dr. R. H. Kadam**