



Dr. Prashant K. Mehta

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Date of Birth: 12th March 1963

Educational Qualifications:

M. Sc. (Physics) Pt. Ravishankar University Raipur 1982

Ph. D. (Physics) IIT Bombay 1991

Teaching Experience:

22 Years (since September 1991) at UG and PG level

Research Experience:

29 Years (Since July 1984)

Research Field:

Experimental Condensed Matter Physics

Dielectric and ferroelectric material characterization

Thin film preparation and characterization

Multifunctional Ceramics

Conducting Oxides

Nano Ceramics

Current Research Interests:

Detailed Crystal Structure Analysis

Swift Heavy Ion Irradiation

Surface Topography and micro structure studies

High Energy Storage Devices

Impedance Spectroscopy

Relaxor Ferroelectrics

Multiferroics

Microwave ceramics

Delafossites and other similar conducting oxides

Research Projects:

Two Completed: CRS Projects

1. Structure, dielectric and transport study of partial substitution of Eu at A-site in Barium Iron Niobate compounds Funded by UGC-DAE, CSR Indore centre, April 2006 to March 2009
2. Swift Heavy ion beam induced modifications in thin film of the Relaxor ferroelectric dielectrics Funded by Inter University Accelerator Centre New Delhi, April 2007 to March 2010

Research Students:

Dr. Devang D. Shah

Dr. Bhagwati Bishnoi

Mr. Naresh V. Patel

Mr. Nishant J. Barot

List of Journal Publications:

Total No. of papers Published in

- | | |
|---|-----------|
| i. International Journals: | 20 |
| ii. National Journals/ Conference Proceedings: | 34 |

Conferences/Seminar/Workshop Attended

- | | |
|--------------------------|-----------|
| i. International: | 08 |
| ii. National: | 16 |
| iii. State Level: | 08 |

Guest Lectures at Conferences Seminar Workshop:

Invited Talk on “Structure and dielectric behaviour of $A(B'B'')O_3$ type Relaxor materials” during National Seminar on Preparation of Nanomaterials & their Applications Feb 2010, Arts, Commerce and Science College, Nandgaon, Nsik Maharashtra.

International Awards and Recognitions:

- 1. Rietveld XRD analysis data for three samples were selected for Inclusion in International Centre for Diffraction Data (ICDD) (U.S.A)**

National Awards and Recognitions:

1. My Research student Mr. Devang’s Poster presentation was selected as Best paper in 56th DAE Solid State Physics Symposium, in December (2011) held at Chennai.
2. My Research student Mr. Devang’s Oral presentation was selected as Best Presentation in the Third National Seminar on Advances in Materials Science (NSAMS-2009) in March 2009 held at Tirunelveli, Tamil Nadu.
3. My Research student Ms. Bhagwati’s Poster presentation was selected as Best poster in the Third National Seminar on Advances in Materials Science (NSAMS-2009) in March 2009, held at Tirunelveli, Tamil Nadu.

Development of research Instruments and measurement Methodology:

- Our group made programmable Muffle Furness for heating up to 1400 °C
- Our group developed high precision sample holder to carryout Impedance measurements from 80K to 675K as a common facility.

Reviewer of journals:

J. Nano Electron Physics

Current Research Collaborators:

Dr. Ravi Kumar	NIT Hamirpur Himachal Pradesh
Dr. V. Ganesan	UGC-DAE-CSR Indore
Dr. O. G. Sing	UGC-DAE-CSR Indore
Dr. D. M. Phase	UGC-DAE-CSR Indore
Dr. R. J. Chaudhary	UGC-DAE-CSR Indore
Dr. P. K. Khanna	DIAT Pune
Dr. D. G. Kuberkar	Rajkot University Rajkot
Dr. C. J. Panchal	The M. S. University of Baroda
Dr. M. S. Desai	The M. S. University of Baroda
Dr. Bharti Rehani	The M. S. University of Baroda

Life Membership of other bodies:

Indian Physics Association (IPA – BARC),

Nuclear Track Society of India (NTSI – BARC),

Society for Materials Chemistry (SMC – BARC)

Administrative Experience:

- 1) Looking after the Academic programme at the faculty level as a teacher supervisor from Nov. 2000 to July 2011.
 - 2) Prepared and helped faculty to implement annual academic calendar in annual as well as CBCS system.
 - 3) Performed duty as coordinator or co-coordinator F.Y. B.Sc. admissions since 2006.
 - 4) Played an important role in the automation process of admission to exam roll call preparation at the UG & PG level.
 - 5) Member central committee CBCS semester exams 2010-11 & 2011-12.
 - 6) Member central committee MSU Online admissions 2013.
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