

## Curriculum Vitae

**Name** : Dr. Umesh Lalasao Shinde (VU3CDI)

**Date of Birth** : 06/11/1975

**Designation** : Asst. Professor

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### Details of earlier employment:

Organization	Period	Designation	Subject taught
Mudhji College, Phaltan Dist. Satara Maharashtra State	Aug. 99 To March 2001	Lecturer	Properties of matter, Optics, Thermodynamic, Computer Classical Mechanics, Statistical Physics
Dr. B. A. T. University's Institute of Petrochemical Engg. Lonere (Raigad)	Sept. 2001 To May 2002	Lecturer	Applied Physics
Dr. B. A. T. University's Institute of Petrochemical Engg. Lonere (Raigad)	Aug. 2002 To May 2003	Lecturer	Applied Physics
Raigad Military School & Jr. College of Science.	May 2003 To May 2004	Lecturer	Physics
Dr. B. A. Tech. University, Raigad	Aug. 2004 To March 2005	Lecturer	Applied Physics
K. J. Somaiya Institute of Engg. & I. T., Sion, Mumbai.	May 2005 To Till date	Lecturer	Applied Physics

**Academic Qualification:**

Qualification	Subject	School/Board/Univ.	Percentage	Division	Year of Passing
S.S.C	All	Kolhapur Board	76%	Distiction	1991
H.S.C	Physics, Chemistry, Mathematcs	Pune Board	60%	First Class	1993
B. Sc.	Physics	Shivaji University	79.8%	Distinction	1996
Ph. D.	Physics	Dr. B. A. Technological University, Lonere, Maharashtra			2014

**Other qualifications and skills: Diploma in Computer Application****List of projects (both on-going and completed):**

Sr. No.	Title of the project	Funding Agency	Month and Year
1	Synthesis & Characterization of Nd based Nanomanganites	University of Mumbai	2007
2	Synthesis & Structural Studies of Nanostructured Magnetoresistive Oxides	University of Mumbai	2012
3	Synthesis & Characterization of Nanoferrites	University of Mumbai	2012
4	To study the Effect of A Site Doping on Properties of Nanostructured Multiferroic Perovskite	University of Mumbai	2015
5	Development of Arduino Based Nanosatellite	University of Mumbai	2018
6	Development of an Amateur Radio Telescope using inexpensive Software Defined Radio	University of Mumbai	2018
7	Upper Air Sounding System	Under Make in India Initiative for Indian Navy.	In collaboration wiyh Databyte Services & Systems, SAMEER-Mumbai and IMD. Initiated on October 2018
8	Weather Prediction Model	For India Meteorological Department	Initiated on March 2019

### Awards and Recognition:

- 1) Winner of Touch The Jovian Moon Contest Conducted by ISRO from December 2018 to May 2019.
- 2) ARISS-SSTV Award 2019
- 3) HAM CLUB WINS FIRST PRIZE in HOME BREW VHF ANTENNA CONTEST At Lamakaan Amature Radio Convention, Hyderabad

**Main research area of Interest:** Magnetoresistance, Spintronics, Nanomaterials, Upper Air Sounding System

### Research Publications:

#### • Journals

Sr. No	Title of Papers	Name of the Conference/Journals	Volume Issue/ISSN/ISBN & Impact Factor
1	Small polaron transport and magnetoresistance in sol-gel prepared $\text{Nd}_{0.7}\text{Sr}_{0.3-x}\text{Ca}_x\text{MnO}_3$ ( $0 \leq x \leq 0.3$ ) nanomanganite system	Physica B: Condensed Matter, Elsevier Publication	452 Nov. 2014/0921-4526 and 1.352
2	Correlated Polaron Transport and Magnetoresistance in Sol-Gel prepared $\text{La}_{0.7}\text{Sr}_{0.3-x}\text{Ca}_x\text{MnO}_3$ ( $x=0.1, 0.15, 0.2$ ) Nanomanganites	International Journal of Latest Technology in Engineering Management & Applied Science	III/V/2278-2540/3
3	<b>Magnetoresistance and Transport Mechanism in Solgel Prepared <math>\text{Nd}_{0.7}\text{Sr}_{0.3-x}\text{Ba}_x\text{MnO}_3</math> (<math>0 \leq x \leq 0.3</math>) Nanomanganite</b>	Accepted for International Conference "Magnetism & Magnetic Materials"	AIP Publications
4.	<b>Synthesis and Characterization of La doped <math>\text{BiFeO}_3</math> Multiferroics</b>	2019 Joint IEEE-INTERMAG, Washington DC	AIP Publications

#### • Conferences

Sr. No	Title of Papers	Name of the Conference/Journals	Volume Issue/ISSN/ISBN & Impact Factor
1	Synthesis & Characterization of LCMO Manganites	16 AGM of MRSI, 2005, NCL, Pune	--
2	Magnetic, Transport and Electron spin resonance study of $\text{Al}_2\text{O}_3$ and MgO substituted LCMO Manganites	Indo-Singapore Symposium on Advanced Functional Materials, February 24-26, 2006, IIT, Bombay	--

3	Synthesis & Characterization of Mn-Zn Ferrite	National Conference on "Recent Trends in Nano Sciences"	--
3	Transport & Magnetoresistance in $\text{Ln}_{0.7}\text{Sr}_{0.2}\text{A}_{0.1}\text{MnO}_3$ (Ln=La,Nd;A=Ca) Nanomaganits	25 <sup>th</sup> AGM of MRSI, February 12-14, 2014, IISc, Bangalore	--
4	"Effect of Ca ion substitution on Order-Disorder Temperature in Hole Doped $\text{Ln}_{0.7}\text{Sr}_{0.3-x}\text{Ca}_x\text{MnO}_3$ ( $0 \leq x \leq 0.3$ ) Nanomaganite	102nd Indian Science Congress, Mumbai from 03-07 January 2015	--
5	Need to Integrate Humanities for Sustainability of Engineering Graduates in Employment Sector	45 <sup>th</sup> ISTE Annual National Convention & International Conference, January 09-11, 2016	--

**Other relevant information:**

**Professional Body membership**

**1) Life member of ISTE 2) Life member of Indian Science Congress**

**Responsibilities handled at Institute and University level:**

- i) LMC Member of Institute since 2011 to 2018 and CDC member since September 2018.
- ii) Dean, Research & Development Cell
- iii) In-Charge, Examination Cell 2005-2008
- iv) Assisted Principal for Staff Selection Committee and approval of faculty from 2007 to 2012
- v) Coordinator ISTE : Won Best ISTE Chapter Award in 2015
- vi) Coordinator Discipline Committee
- vii) Coordinator Anti Ragging Squad Committee
- viii) Established Students Club:
  - 1: Infinite Loop (Programming & Coding)
  - 2: Vyom Club (Astronomy & Astrophysics)
  - 3: New Leap Initiative: National winner of ISRO Touch The Jovian Moon-Lander Mission Design Contest
- ix) Member of COEPS Cell
- x) Member of Cultural Committee
- xi) Member of Students Project Committee
- xii) Member, Department Quality Circle Committee (DQC)

**Member of Applied Physics Sem.- I & II syllabus revision committee for University of Mumbai for 2012, 2016 and 2018**

**Member of Research and Recognition Committee, University of Pune from March 2018 to March 2020**

**2) Question Paper setter & Examiner for**

- i) Applied Physics – II (Old Course), May 2008 Examination**
- ii) Applied Physics – II (Revised Course), May 2008 Examination**
- iii) Applied Physics – I (Revised Course), December 2011 Examination**
- iv) Examiner, Dr. Babasaheb A. Technological University, Lonere.**

**3) Prepared Study Material for MCA course, University of Mumbai IDOL published by University of Mumbai for following subjects:**

- 1) Operating System 2) System Analysis & Design 3) JAVA Programming
- 4) Object Oriented Programming with C++

**3) Expert Talk delivered/Workshop conducted:**

- i) One Day Workshop for Star College Students under Department of Biotechnology- Star College Scheme on “Hall Effect Instrument and its Applications” on 18<sup>th</sup> February, 2015**
- ii) Expert Talk on “Introduction to Nanotechnology” at K. J. Somaiya College of Science & Commerce on 14<sup>th</sup> September, 2015.**
- iii) Two day Workshop on “Cyber Security & Ethical Hacking” 26 to 27 August at Gogate College, Ratnagiri.**
- iv) One Day Workshop on “Cyber Crime” 03 february 2018 at Junior Science College, Pawas.**
- v) Conducted AICTE-ISTE Sponsered one week Induction program on “Inclusion of Nanotechnology in Varous Commercial Arena” July 02-07, 2018**
- vi) Conducted “Somaiya Space Conclave – 2020” on 28 February 2020.**
- vii) Conducted “Somaiya Game of Codes” in 2018 and 2019**
- viii) Conducted HAM amature Radio Examination in 2018 and 2019.**

**4) Ph. D. Supervisor at Pacific University**

**5) Conference/ Seminars/Workshop/Convention participated**

- i) 6<sup>th</sup> Annual Convention of Maharashtra & Goa Section of ISTE, December 14-15, 2001**
  - ii) Workshop on Characterization of Nanostructured Systems, Organised by UGC-DAE –CSR & Department of Physics, University of Mumbai, June 14-16, 2007**
  - iii) XIII Workshop on Neutron as Probes for Condensed Matter organized by UGC-DAE-CSR & SSPD BARC, January 12-14, 2008**
  - iv) International Symposium on Neutron Scattering organized by BARC, Mumbai, January 15-18, 2008**
  - v) International Conference on Nanomaterials & Applications, organized by Department of Physics, Shivaji University, December 09-11, 2008**
  - vi) INUP Familiarzation Workshop on Nanofabrication Technologies organized by IIT, Bombay, May 26-28, 2014**
  - vii) 102<sup>rd</sup> Indian Science Congress, at University of Mumbai, January 03-07, 2015**
  - viii) 103<sup>rd</sup> Indian Science Congress, at University of Mysore, January 03-07, 2016**
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- ix) UGC SAP National workshop on “Advanced Functional Materials: Synthesis to Applications” organized by Department of Physics, University of Mumbai.
  - x) INUP “Hands on Training Workshop on Nano-Fabrication Technologies” organized by IIT, Bombay, August 22-26, 2016
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