

**Dr.Ragini Niles Pathare(Dhokne)**  
**M. Sc.(Physics) B Ed Ph. D.**  
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9011084355

## **CURRICULUM VITAE**

### **Academic Identity**

<b>Orchid ID</b>	<b>Scopus ID</b>	<b>Google Scholar ID</b>	<b>Vidwan ID</b>	<b>Web of Science Researcher ID</b>
0000-0002-4401-5162	13407221100	O-3lCQYAAAAJ	418265	JAX-8003-2023

### **Achievement in Career**

- **Academic Career**
  1. Selected by MPSC for STI Exam (2001).
- **Scholarship and Fellowship**
  1. Ekalvya Scholarship by Govt. of Maharashtra in M.Sc I, II year (2000-01, 2001-02).
- **Research Career**
  1. Fourteen International Papers Published.
  2. One Patent Granted Patent No. 291615
  3. Fifteen International and National Conferences Attended.
  4. One Student Awarded Ph D under my guidance at RTMNU Nov 2019
  5. Editorial Board Member, Journal of Research Update in Polymer Science (JRUPS) ISSN (online): 1929-5995 Published by: Lifescience Global Scopus indexed
- **Teaching Experience**
  1. Presently working as Assistant Prof. in Physics Shri Shivaji Education Society's Amravati, Science College Nagpur
  2. **M F A C and S C Science College Warud** from 20/09/2019 to 24/06/2021
  3. Eight year teaching experiences **G H Raison Institute of Engineering and Technology, Nagpur** from **22/07/2011 to 19/09/2019**
  4. One year of teaching experience in KDK College of Engg.Nagpur(2009-2010).
  5. Five years of teaching experience in Govt. Vidarbha Institute of Science and Humanities (G.V.I.S.H.) Amravati,(2003-2008).
- **Induction and Refresher courses**
  1. Guru-Dakshta Faculty Induction Programmes 27/07/2020 to 25/08/2020 HRDC Gujarat University, Ahmedabad
  2. **Refresher Course on 'Advance in Mathematical and Physical Sciences' (RC9-21)** scheduled to be held from **16<sup>th</sup> – 30<sup>th</sup> November, 2021**
  3. **NPTEL Faculty Development Program** online course Structural Analysis of Nanomaterial's Aug- Sept 2018 (**Four week course**) IIT, Roorkee.

4. **NPTEL Faculty Development Program** online course “Experimental Physics II” IIT, Khargpur (12 week)
5. One-week Training Program on “**Computer Interfaced Science Experiments**” from May 06 to 11, 2024 at Inter-University Accelerator Centre, New Delhi

- **Workshop/FDP/STTP**

1. Curriculum Development Program for subject Applied Physics and Advanced Engg Materials at Cummins College of Engineering for Women, Nagpur on 18<sup>th</sup> June 2019
2. **Python Workshop** organized by Teaching Learning Center at IIT Bombay on 22 June 2019
3. Workshop on “Moodle Learning Management System” organized by Teaching Learning Center at IIT Bombay on 15 March 2019
4. **NPTEL Faculty Development Program** online course Structural Analysis of Nanomaterial’s Aug- Sept 2018 (**Four week course**) IIT, Roorkee.
5. **Short Term Course** on Advance in Optical Fiber Communication Technology at NITTTR Chandigarh 5-9 March 2018
6. **AICTE sponsored Faculty Development Program** on The Multidisciplinary Nature of Environment, Environmental Ethics and Issues at G H Raison Institute of Engineering and Technology Nagpur on 07/11/2017 to 16/11/2017
7. **Short Term Training Program(STTP)** on Materials Synthesis to Diverse Applications (MSDA-2013) held at VNIT, Nagpur on 9-13 Dec 2013
8. Attended Workshop on Advance Physics syllabus design Held at Suryodaya College of Engg Nagpur on 4<sup>th</sup> Feb 2013.
9. Attended Workshop on Advance Characterization Techniques Held at Dept of Metallurgical Engg and Material Science, IIT Bombay on 3<sup>rd</sup> May 2012.
10. Attended Workshop on Research Methodology Held at GHRIETW, Nagpur on 07-09 Dec 2011.
11. Attended Workshop on Scope & Limitations of B.Sc. III (Physics) Syllabus. Held at Department of Physics, Amravati University, Amravati on 30<sup>th</sup> Jan 2005.

- **Membership**

1. Indian Science Congress,(ISC) Kolkata.
2. Indian Society for Technical Education,(ISTE)
3. Physical Society of India, Amravati.
4. The Indian Association of Physics Teachers (IAPT).

- **Contribution to Student Leadership**

1. Secretary of Physics Society in GVISH Amravati (2000-2001).
2. President of Physics Society in GVISH Amravati (2001-2002).

**Educational Qualification Details:-**

Exam Passed	Board/Univer sity	Year of Passing	Percentage	Division
B. Sc.	Amravati	Summer-2000	74.47%	I
M. Sc.(Physics)	Amravati	Summer-2002	65.70%	I
B. Ed.	Amravati	Summer 2003	72.22%	I
Ph. D.	Amravati	20-Feb-2008		

**Ph.D. Thesis Title :-** *Characterization and Thermally Stimulated Discharge Conductivity (TSDC) Study of Naphthalene Doped Polystyrene (PS) and Polymethyle- Methacrylate (PMMA) Blend.*

**Patent Details**

**Title of invention:-** “Process for Preparation of Naphthalene Doped Polystyrene Packaging Material” Published on IPR Journal Dated 05/10/2012.

**Patent No :-** 291615    **Application No :-** 2501/MUM/2012

**Ph D Supervisor:**

1. Supervisor for Miss Shital More- Structural and Electrical characterization of doped PVA thin films (Registered on 23/01/14 Thesis submitted on 25/08/2017 Awarded vide Notification RTMNU/Ph D (CELL)/14/733 28 Nov 2019
2. Supervisor for Miss Amrapali Patil - Development of Composites Polymer Phosphors for Fabric Designing (Registered RTMNU/PH.D CELL/RRC/2022/R1/951 Dated 23/05.2022

## Details of Research Publication:-



## Journal Paper Details

Sr. No	Title, Publisher, Volume no., Year, Page no., Impact Factor, No. of Citation
1	Structural and Dielectric Properties of Polyvinyl Alcohol-TiO <sub>2</sub> Doped Thin Films <a href="https://doi.org/10.1002/masy.202100014">https://doi.org/10.1002/masy.202100014</a> <i>Macromol. Symp.</i> <b>2021</b> , 400, 2100014 22 December 2021
2	Structural properties and temperature dependence dielectric properties of PVA-Al <sub>2</sub> O <sub>3</sub> composite thin films <i>Polym. Bull.</i> DOI link.springer.com/article/10.1007/s00289-017-2069-0 Vol 25 Page No 909-923 2018 Publisher Springer-Verlag Berlin Heidelberg 2017 online 19 May 2017
3	Structural and dielectric relaxation study of polyvinyl-alcohol titanium dioxide composite films AIP Conference Proceedings 2104, 020030 (2019); <a href="https://doi.org/10.1063/1.5100398">https://doi.org/10.1063/1.5100398</a>
4	Dielectric relaxation and electric modulus of polyvinyl alcohol-Zinc oxide composite films <i>Mater. Res. Express</i> 4 (2017) 055302 <a href="https://doi.org/10.1088/2053-1591/aa6b26">https://doi.org/10.1088/2053-1591/aa6b26</a> Science Publishing
5	Characterization of nanocrystalline cadmium telluride thin films grown by successive ionic layer adsorption and reaction (SILAR) method. <i>Bull Mater Sci.</i> , Vol 29, No. 2, 2006, pp165-168. <b>Springer Publisher</b>
6	Structural characterization and thermally stimulated discharge conductivity (TSDC) study in polymer thin films. <i>Bull. Mater Sci.</i> Vol. 30, No.2, 2007, 163-167 <b>Springer Publisher</b>
7	Thermally stimulated discharge conductivity in polymer composite thin films. <i>Bull. Mater. Sci.</i> Vol 29, No. 4, 2006, 413-416 <b>Springer Publisher</b>
8	Biodegradability and Photodegradability of Starch Filled LDPE Thin Film. <i>Journal of Polymer Material</i> Vol 26, No. 4, 2009, 361-380 <b>Impact Factor 0.33 MD Publication Pvt. Ltd. Source of Publication Web of Science SCI (Science citation Index)</b>
9	Study on Structural Characterization and Dielectric Properties of PVA-TiO <sub>2</sub> Composite <i>IOSR Journal of Applied Physics (IOSR-JAP)</i> e-ISSN: 2278-4861. Volume 8, Issue 3 Ver. III (May-Jun. 2016), PP 28-32

10	Structural characterization and electrical conductivity of naphthalene doped polyblend. Indian Journal of Physics 82(10) 1309-1318, 2008 Impact Factor <b>1.166</b> Publisher Indian Association for Cultivation of science, Jadvpur, Kolkata <b>Springer Publisher</b>
11	Ultra-violet weathering of LPDE and Wood floor filled LDPE thin films. Journal of Polymer Material Vol 25 (4) Dec 2008, 563-575
12	Mechanical properties and morphology of non degraded, Biodegradeand UV irradiated starch filled LDPE thin films International Journal of Plastics Technology Vol 11 Aug 2007 819-834 ISSN 0972-656X Publisher Springer India
13	Bandgap determination of PVC-charcoal composite thin film from UV measurements. ActaCienciaIndicaVol XXXII P.No.4, 477-482 (2006) Publisher PragatiPrakashan
14	OPTIMIZATION FOR ENERGY CONSUMPTION OF VAPOUR COMPRESSION REFRIGERATION SYSTEM IN DINSHAWS FOOD LIMITED, NAGPUR Vidyabharati International Interdisciplinary Research Journal Special Issue of National E- Conference on Role of Nanotechnology for Sustainable Future ISSN 2319-4979 31 Aug 2021

### Research Papers Presented in Conferences:-

1. Anomalous Behaviour of DC electrical conductivity of PVC-carbon composites. 92<sup>nd</sup> Indian Science Congress Jan 3-7, 2005 held at Ahmedabad
2. Characterization and Electrical conductivity of naphthalene doped polymethyl-methacrylate thin films. National Conference on Recent Advances in Material Science, 21-22, Jan, 2006 held at Department of Physics DrAmbedkar College, Deekshabhoomi, Nagpur..
3. Thermally stimulated discharge conductivity in PMMA- activated charcoal composite thin films.National Conference on Recent Advances in Material Science, 21-22, Jan, 2006 held at Department of Physics Dr. Ambedkar College, Deekshabhoomi, Nagpur.
4. Structural characterization and thermally stimulated discharge conductivity (TSDC) study in polymer thin films. 94<sup>th</sup> Indian Science Congress January 3-7, 2007, Annamali University,Chidambaram.
5. X-RD, IR and TSDC study of naphthalene doped polyblend (PS:PMMA) thin films.International Conference on Advanced and Applications, Department ofPhysics, Shivaji University, Kolhapur 2007
6. Photovoltaic Properties of polyaniline- based schottky cellsProceedingsof NationalConference on Physics of Semiconductor Devicesand Smart Materials (NC-PSDSM-07),Department of Physics, KarmaveerBhauraoPatil College, Vashi, Navi Mumbai.
7. Mechanical properties and Morphology of Non-degraded, Bio-degraded and UV irradiated starch-filled LDPE thin films.Proceedings of National Conference onPhysics of Semiconductor Devicesand Smart Materials (NC-PSDSM-07), Department of Physics, KarmaveerBhauraoPatil College, Vashi, Navi Mumbai.
8. Optical Characterization of Naphthalene doped PMMA thin film.100<sup>th</sup> Indian ScienceCongress Kolkata University Kolkata.

9. Study of AC Electrical conductivity of PVA- TiO<sub>2</sub> Doped polymer films.  
International conference on Computer, Electrical & Electronics Engineering  
IETE Cynosure-2013 held at DrBabasahebAmbedkar Technology University  
Lonere Dec 26<sup>th</sup>-27<sup>th</sup>, 2013
10. Study of Structural and Electrical of Polyvinyl Alcohol TiO<sub>2</sub> Doped thin films.  
National Conference on Recent Innovation In Science, National  
National Conference on Recent Innovation In Science, Engineering and  
Technology 18<sup>th</sup> - 19<sup>th</sup> March 2016 held at G H Raison Institute of Engineering  
and Technology for Women, Nagpur.
11. Dielectric relaxation and electric modulus study of PVA/ZnO composite films. 2nd  
National Conference on “Recent Innovations in Science Engineering &  
Technology” NCRASET-2017 ISBN978-935268-408-3
12. Study on structural properties and AC electrical conductivity of Poly-vinyl alcohol-  
Zinc oxide composite films. 3rd National Conference on Recent  
Innovations in Science Engineering and Technology 22 March 2018 GHRIET,  
Nagpur.
13. Structural & dielectric relaxation study of Polyvinyl alcohol- Titanium dioxide  
composite films International conference on Multidimensional Role of Basic  
Science in Advanced Technology held at 14<sup>th</sup> to 15<sup>th</sup> December 2018 at K D K  
college of Engineering, Nagpur
14. Structural and Electrical Properties of Polyvinyl Alcohol-TiO<sub>2</sub> Doped Thin Films  
International conference advance in Physical, Chemical and Mathematical  
Sciences held at Department of Physics RTMNU Nagpur 13th to 16 th Feb 2020.
15. Photoluminescence of Eu<sup>3+</sup> Doped Strontium Calcium Penta Boroaluminate  
Phosphors , National Seminar on Advanced Functional Materials (AFM-2022)  
October 18, 2022, VNIT, Nagpur
16. Review on Electrospinning for Photoluminescent polymer fibers, International  
Conference on Advanced Sustainable Futuristic Materials organized by Kamala  
Nehru Mahavidyalaya, Nagpur, Sharda University Greater Noida and CSIR-  
National Environmental Engineering Research Institute (NEERI), Nagpur April 25-  
27, 2024.
17. Dielectric Characteristics of Nanoparticles Doped Polyvinyl Alcohol, DST-SERB,  
Sponsored International Conference on Material Physics and Electronics for  
Sustainable Development ICMPE-2024 organized by Government Vidarbha  
Institute of Science and Humanities, Amravati, July 01-02, 2024

**Personal Particulars:-**

**Name** :- Dr Ragini Nilesh Pathare

**Father's Name** :- Dr Janardanrao D Dhokne

**Date of Birth** :- 29-06-80

**Caste** :- O.B.C. (Kunbi-Patil)

**Marital Status** :- Married

**Language Known** :- English, Marathi, Hindi.

**Nationality** :- Indian

**Permanent Address** :- Shri Nilesh Pathare, Plot No 119A,  
Shivashakti Layout No 1 Sonegao Khamala Road Nagpur

**Contact No.** :- M-9011084356, 9011084355

**Hobbies** :- Keenly interested in travelling and meeting different people.

I declare that above information furnished by me is true and correct to the best of my knowledge and belief.

**Date:-**

**Place :-**

**(Dr Ragini N Pathare)**