

## CURRICULUM VITAE

**Name:** Dr. Pranab Jyoti Dihingia

**Current Designation:** Assistant Professor & H.O.D., Department of Physics, Dibrugarh College, Dibrugarh, Assam.

**Date of joining:** 05/10/2016

**Father's Name:** Mr. Ranjit Kumar Dihingia

**Mother's Name:** Mrs. Santana Dihingia

**Qualification:** M. Sc. (Physics), M. Phil. (Physics), Ph.D. (Physics)

**NET/SLET Qualification:** SLET

**University:** Dibrugarh University, Dibrugarh, Assam

**Specialization in M.Sc.:** Electronics and Condensed Matter Physics

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### Other Personal Details:

Gender: Male

Date of Birth: 24/07/1982

Nationality: Indian

Marital Status: Married

### Permanent Address:

Vill: 108 No. Khowang Grant (Opp. Tiloi Gramya Bazar),  
P.O: Tiloinagar  
PIN: 785675,  
P.S: Moran,  
Dist: Dibrugarh (Assam).

**M. Phil.: From Department of Physics, Dibrugarh University (2009)**

**Dissertation Title:** "Conversion of GPS slant TEC to VTEC using a computerized tomographic method for Indian zone ionosphere."

**Ph. D.: From Department of Physics, Dibrugarh University (2014)**

**Thesis Title:** "Synthesis, Characterization, Optoelectronic Studies of Some Rare-Earth and Transition Metal-Doped Semiconductor Nanomaterials."

**Other Qualifications:** 6MCCA (Six Months Certificate Course in Computer Application) from Centre for Computer Studies, Dibrugarh University, Dibrugarh (Assam).

**Computer Programming Knowledge:** Programming in FORTRAN/C/C++/MATLAB, etc.

**Research Activities:**

**Papers Published:**

1. “Synthesis of TiO<sub>2</sub> nanoparticles and spectroscopic upconversion luminescence of Nd<sup>3+</sup>-doped TiO<sub>2</sub>-SiO<sub>2</sub> composite glass”, **P. J. Dihingia**, S. Rai\*, *Journal of Luminescence* 132 (2012) 1243-1251.
2. “Effect of CdS nanoparticles on fluorescence from Sm<sup>3+</sup> doped SiO<sub>2</sub> glass”, S. Rai\*, L. Bokatial, **P. J. Dihingia**, *Journal of Luminescence* 131 (2011) 978-983.
3. “Photoluminescence of Eu<sup>3+</sup>-doped TiO<sub>2</sub>-SiO<sub>2</sub> glass derived by sol-gel method”, **P. J. Dihingia**, S. Rai\*, *Asian Journal of Spectroscopy Special Issue* (2012) 253-257.
4. “Optoelectronics of Cu<sup>2+</sup>-doped TiO<sub>2</sub> films prepared by sol-gel method”, S. Rai and **Pranab J. Dihingia**, Chapter 72; **Advances in Optical Science and Engineering Springer Proceedings in Physics**, volume: 166, 2015, pp581- 589, DOI: 10.1007/978-81-322-2367-2\_ Print ISBN: 978-81-322-2366-5, Online ISBN: 978-81-322-2367-2, Series ISSN: 0930-8989, Publisher: Springer.

**Book Chapters:**

1. “Application of TiO<sub>2</sub> and Dye Coated TiO<sub>2</sub> Thin Films for Solar Energy Conversion for Sustainable Alternative Energy Source”, S. Rai and **P. J. Dihingia**, Chapter 36; **Book: Management of Natural Resources for Sustainable Development**, ISBN: 978-93-82880-95-0, Excel India Publishers, New Delhi, India.
2. “Photoluminescence upconversion of Ho<sup>3+</sup>-doped TiO<sub>2</sub>-SiO<sub>2</sub>”, P. J. Dihingia and S. Rai; Book Name: **Advances in Chemical, Geological & Physical Sciences**, Year of Publication: 2023, Publisher: Kaustabh Prakashan, Dibrugarh, ISBN/ISSN: 978-81-963781-8-9.
3. “Synthesis and upconversion properties of rare-earth co-doped composite phosphors”, S. Rai and P. J. Dihingia, Chapter 10; Book Name: **Upconversion Nanocrystals for Sustainable Technology**, Year of Publication: 2024, Publisher: **Elsevier**, ISBN/ISSN: 978-0-443-15830-8.

### **Conference Presentations: 10**

**Recent one:-** CMDAYS-2017 (29-31 August, 2017), Organized by Department of Physics, Tezpur University; Paper title: “*Structural Characterization of TiO<sub>2</sub> nanoparticles prepared in-situ in SiO<sub>2</sub> gel matrix*”.

### **Recent Workshop Attended:**

Workshop On “Implementation Of Four Year Undergraduate Programme (FYUGP) in colleges under Dibrugarh University”, Organized by Dibrugarh University, Dibrugarh in collaboration with IQAC, Dibru College, Dibrugarh (June 06, 2023).

### **Other Research Highlights:**

1. One of our research articles (*Journal of Luminescence 132 (2012) 1243-1251*) has the distinction of being included in the **top 25 hottest** articles of Science Direct between April to June 2012.

2. The important findings of the research work in the paper *Journal of Luminescence 132 (2012) 1243-1251* have also been included in the **book ADVANCES IN NANOTECHNOLOGY (2012 Edition). Now, available in Google Books.**

### **Short Term Course:**

One Week Short Term Course on Computer Programming in Physics, organised by the Department of Physics & Academic Branch, Dibrugarh University from 1<sup>st</sup> July to 7<sup>th</sup> July, 2019.

### **FDP:**

One Week National Level Online Faculty Development Programme on Online Class Management, organized by IQAC, Dibru College, Dibrugarh from July 06 to July 11, 2020.

### **Orientation Course:**

“4 week Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education “.

(June 26-July24, 2020)

Obtained grade: A

Organizing Institute: Teaching Learning Centre, Ramanujan College, University of Delhi, Under the aegis of Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

### ***Refresher Course:***

Two week refresher course in “PHYSICS” (30<sup>th</sup> August – 13<sup>th</sup> September, 2023)

Obtained grade: A+

Organizing Institute: Teaching Learning Centre, Ramanujan College, University of Delhi, in collaboration with Bhaskaracharya College of Applied Sciences, University of Delhi And Deshbandhu College, University of Delhi, Under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

### **TEACHING EXPERIENCE:**

1. As **Assistant Professor** of Physics (**Permanent**) from 05/10/2016 onwards at Dibru College, Dibrugarh, Assam.
2. Three (3) year contractual teaching as a lecturer in the Dept. of Physics, Moran College, Moranhat, Assam (16<sup>th</sup> July, 2013 to 5<sup>th</sup> August, 2016).
3. Assistant Professor on contract basis from February, 2012 to December, 2012 in the Dept. of Physics, Dibrugarh University, Dibrugarh, Assam.

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