

# CURRICULUM VITAE

**PRASHANT KUMAR**  
**Assistant Professor (Temporary)**

Centre for Nanotechnology,  
Central University of Jharkhand,  
Ranchi, India.

[prashantnstpu@gmail.com](mailto:prashantnstpu@gmail.com)

+91-8582087314



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## EDUCATION

2012-2014     **Master of Technology with First Division (7.75 CGPA)**

Nanoscience and Technology, Pondicherry University, Pondicherry, India

**Thesis:** Development of electrospun SiO<sub>2</sub> embedded TiO<sub>2</sub> Nanofibers as a photoanode for Dye Sensitized Solar Cells.

2007-2011     **Bachelor of Engineering with First Division (7.07 CGPA)**

Electronics and Communication, Barkatullah University, Bhopal, India.

**Major project:** Density Based Traffic Light Controller.

## RESEARCH INTERESTS

Electrochemical energy devices and photocatalysis, nanoelectronics and nanophotonics, MEMS and NEMS, Thin film solar cells and batteries, One dimensional nanostructures for nanoelectronics, Electron microscopy and X-ray diffraction techniques, Nano-magnetism and spintronics.

## TEACHING EXPERIENCE

1. Assistant Professor (Temporary) at Centre for Nanotechnology, Central University of Jharkhand, Ranchi since 20 July, 2016 till date.
2. Guest Faculty at Centre for Nanotechnology, Central University of Jharkhand, Ranchi, India, since 22<sup>nd</sup> September, 2014 to 20 May, 2016 (1 year 7 months)
3. Assistant Professor in Electronics and Communication Engineering department at Netaji Subhas Institute of Technology, Amhara, Bihta, Patna, India. (2 months)

## **SKILLS**

**SOFTWARES KNOWN:** Microsoft Office, Origin Pro-8, Materials Studio-4.4, Xpert Highscore and Matlab.

**TECHNICAL KNOW-HOW:** Electrochemical Impedance Spectroscopy (EIS), Powder X-Ray Diffractometer (XRD), Scanning Electron Microscope (SEM), Fourier Transform Infrared Spectrometer (FTIR), Raman Spectroscopy, Photoluminescence Spectrometer (PL), UV-Visible Spectrometer (UV-Vis), Thermo gravimetric Analysis (TGA), Differential thermal Analyzer (DTA), cyclic Voltammetry, electrospinning, Cathode Ray Oscilloscope(CRO), Digital Storage Oscilloscope(DSO), Function Generator.

**COMMUNICATION:** Writing, listening and verbal communication with planning, organization and teamwork.

**LANGUAGES:** English, Hindi and Maithili.

## **PAPER PUBLISHED IN CONFERENCES/JOURNALS**

1. 'Synthesis and fabrication of ceria nanofibers by electrospinning technique for application in electrochemical devices' at International Conference on Material and Characterization Techniques (ICMCT-2014), VIT University, Vellore, India.
2. 'Preparation and Characterization of Electrospun TiO<sub>2</sub>/SiO<sub>2</sub> composite Nanofibers as Newer Photoanode for Dye Sensitized Solar Cells' at International Conference on Energy Materials (ICEM - 2014), Sathyabama University, Chennai, India.
3. Analyzing Time on Sample During Nanoindentation, Material Science Research India, Vol. 13(2), 74-79 (2016)

## **ACADEMIC ACHIEVEMENTS**

1. Qualified in Graduate Aptitude Test in Engineering (GATE)-2014 in Engineering Sciences with All India Rank-367.
2. Secured 1<sup>st</sup> Rank in National level Pondicherry Central University M. Tech. Entrance Examination.
3. Qualified All India Engineering Entrance Examination (AIEEE) – 2007 for admission in bachelor of engineering.

## **COURSES COORDINATED**

- Analytical Techniques and Scientific Presentation in Nanotechnology, Advanced Functional Materials and Devices, Advanced Synthesis Lab, Material Characterization Lab, Nanotechnology for Energy Systems, Nanophotonics, Material Science, Nanocomposite Materials.
- CMOS VLSI Design, Solid State Physics and Devices, Basic Electronics Lab, Analog Electronics (Electronic Devices and Circuits), Electromagnetic Field Theory, Digital Electronics.

## PERSONAL DETAILS

**NAME:** Prashant Kumar

**SEX:** Male

**NATIONALITY:** Indian

**DATE OF BIRTH:** 31-05-1986

**MARITAL STATUS:** Single

**FATHER'S NAME:** Bimal Kant Jha

**MOTHER'S NAME:** Reena Jha

**PERMANENT ADDRESS:** Lorika Village, Madhubani, Pin: 847223, Bihar, India

**HOBBIES:** Listening classical songs, reading scientific articles, walking in my university campus in the evening and teaching my junior students.