

**Dr. Raminder Preet Pal Singh**  
**Registrar**

**Arni University**, Kathgarh, Himachal Pradesh

**Mobile:** 9888599102(O), 9780597319(P)

**E-Mail:** [registrar@arni.in](mailto:registrar@arni.in), [raminder\\_212003@rediffmail.com](mailto:raminder_212003@rediffmail.com)

**Residence:** 101, Suraksha Colony, Sali Road, Pathankot, Punjab

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**Presently Working as**

- **Registrar**, Arni University
- **Associate Professor**, ECE Department, Arni University

**Education Qualification**

- **Ph.D** in Electronics and Communication Engineering.
- **M.Tech** in Electronics and Communication Engineering.
- **B.E** in Instrumentation Engineering.
- **Post Graduate Diploma** in Advanced Digital System Design.
- **Diploma** in Electrical Engineering.

**Professional Experience:** Teaching, Industry and Research = **17 Years**

- **Registrar**, Arni University, 16 Jan 2017 to till date.
- **Controller of Examinations**, Arni University, Sep 2015 to Jan 2017.
- **Associate Professor & HOD**, Arni University, March 2012 to till date.
- **Assistant Professor & HOD**, Arni University, Aug 2010 to Feb 2012.
- **Assistant Professor & HOD**, Sri Sai Institute of Engineering and Technology, Sep 2004 to Aug 2010.
- **Lecturer**, Sri Sai Polytechnic, Jan 2003 to Aug 2003.
- **Lecturer & HOD**, Shaheed Bhagat Singh Polytechnic, Oct 2000 to Dec 2002.
- **Electrical Maintenance Engineer**, Bharat Electricals, Aug 1998 to Sep 2000.

## **Professional Awards & Memberships**

- ISTE Section “**Best Teacher Award**” Nov 2016,
- **Life Member** of Indian Society of Technical Education (ISTE), **New Delhi**.
- **Editorial Member** of Arni International Journal of Management, Engineering and Basic Sciences.

## **Examination Conduct Experience**

### **Conducted Punjab Technical University (PTU) Examinations in top collages of Punjab**

- DAV College of Engineering & Technology (**DAVIET**), **Jalandhar**, in Dec 2004.
- Amritsar Collage of Engineering & Technology (**ACET**), **Amritsar**, in May 2005.
- Beant Collage of Engineering & Technology (**BCET**), **Gurdaspur**, in Dec 2005.
- Lovely Collage of Engineering & Technology (**LIET**), **Jalandhar**, in Dec 2006.
- Sukhjindra Collage of Engineering & Technology (**SCET**), **Gurdaspur**, in Dec 2008.
- Sri Sai Collage of Engineering & Technology (**SSCET**), **Badhani**, in May 2009, 2010 & Dec 2009.

## **Research Interest/ Specialization**

DMS Material for Spintronics Device Applications, VLSI Design Technology, Embedded System Design.

## **Research Activities**

- Design and Synthesis of MAC Architecture using VHDL.
- Effect of Microwave and High Voltage on Resistance, Texture, Color and Growth of the Aloe-Vera Plant.
- Synthesis and Characterization of Transition Metal Codoped ZnO Diluted Magnetic Semiconductors for Spintronic Device Applications.

### **Presently, main focus is to:**

- Synthesis of nanoparticles by co-precipitation and sol-gel method.
- Develop a Diluted Magnetic semiconductor having functionalities suitable for room temperature application i.e. materials for semiconductor spintronics.
- Fabricate thin film and investigate their Structural, Optical and Magnetic and Electrical properties.

## Publication Profile

- International Journal Publications: 28
- International Conference Publications: 03

## Important Publications

- [1] **Raminder Preet Pal Singh**, I. S. Hudiara, Sudhakar Panday & Shashi Bhushan Rana,” **Effect of Ni Doping on Structural, Optical, and Magnetic Properties of Fe-Doped ZnO Nanoparticles**”, *Journal of Superconductivity and Novel Magnetism*, ISSN 1557-1939, Volume 28 Number 12, 2015, pp. 3685-3691, DOI 10.1007/s10948-015-3183-6. **(Springer Journal)**. **Impact Factor: 1.100**
- [2] **Raminder Preet Pal Singh**, I. S. Hudiara, Sudhakar Panday & Shashi Bhushan Rana,” **Effect of Co Doping on Structural, Optical, and Magnetic Properties of Fe-Doped ZnO Nanoparticles**”, *Journal of Superconductivity and Novel Magnetism*, ISSN 1557-1939, Volume 28 Number 12, 2015, pp. 3685-3691, DOI 10.1007/s10948-015-3183-6. **(Springer Journal)**. **Impact Factor: 1.100**
- [3] **Raminder Preet Pal Singh**, I. S. Hudiara & Shashi Bhushan Rana,” **Effect of Calcination Temperature on the Structural, Optical and Magnetic Properties of Pure and Fe doped ZnO Nanoparticles**”, *Materials Science-Poland*, 2016. **Impact Factor: 0.533**
- [4] **Raminder Preet Pal Singh**, I. S. Hudiara, Sudhakar Panday & Shashi Bhushan Rana,” **Influence of Co-doping on the Structural, Optical and Magnetic Properties of ZnO Nanoparticles**”, *International Journal of Nanoelectronics and Materials (IJNeAM), Malaysia*, Volume 9, No. 1, 2016. **(Scopus Indexing)**
- [5] S.B. Rana, **R.P.P. Singh**,” **Investigation of structural, optical, magnetic properties and antibacterial activity of Ni-doped zinc oxide nanoparticles**”, *Journal of Materials Science: Materials in Electronics* (Published Online: 14 May 2016), DOI: 10.1007/s10854-016-4975-6. **(Springer Journal)**. **Impact Factor: 1.798**
- [6] S.B. Rana, **R.P.P. Singh**,” **Structural, optical, magnetic and antibacterial study of pure and Cobalt doped ZnO nanoparticles**”, *Journal of Materials Science: Materials in Electronics* (Published Online: 14 Oct 2016), DOI: 10.1007/s10854-016-4975-6. **(Springer Journal)**. **Impact Factor: 1.798**
- [7] **R.P.P. Singh**, Parveen Kumar, Balwinder Singh,” **Performance Analysis of 32-bit Array Multiplier with a Carry Save Adder and with a Carry Look Ahead Adder**”,

*International Journal of Recent Trends in Engineering, FINLAND*, Volume – 02, pp 83-86.

- [8] Faizan Ahmed Sheikh, **Raminder Preet Pal Singh**, Jang Bahadur Singh, Parveen Lehana, ” **Effect of High Voltage on Texture, Color and Growth of Aloe vera Leaves**”, *Physical Science International Journal*, 6(3):163-168, 2015, Article no.PSIJ.2015.042, ISSN: 2348-0130. [www.sciencedomain.org](http://www.sciencedomain.org).
- [9] Ishan Gupta, **Raminder Preet Pal Singh**, Saleem Khan, Parveen Lehana, Sandeep Arya, ”**Electrochemical Synthesis of Zinc Selenide Nanowires and their Characterization**”, *ChemXpress*, Volume 3 Issue 3 Year: 2014 Pages: 85-129.
- [10] **R.P.P. Singh**, Parveen Kumar, Balwinder Singh, ” **Performance Analysis of Fast Adders Using VHDL**”, Advances in Recent Technologies in Communication and Computing, International Conference on 27-28 OCT 2009, Co-sponsored by the **IEEE-Computational Intelligence Society**, DOI: [10.1109/ARTCom.2009.132](https://doi.org/10.1109/ARTCom.2009.132), Print ISBN: 978-1-4244-5104-3.
- [11] **Raminder Preet Pal Singh**, I. S. Hudiara, Sudhakar Panday & Shashi Bhushan Rana. ” **Effect of Calcination Temperature on the Structural and Optical properties of ZnO Nanoparticles**”, **Presentation at 4th International Conference on Advanced Nanomaterial and Nanotechnology (ICANN-2015)** organized by Centre for Nanotechnology at the **Indian Institute of Technology Guwahati (IITG)**, India during Dec 8-11, 2015.