

**MAGADH MAHILA COLLEGE  
PATNA UNIVERSITY**

***FOR SELF APPRAISAL OF TEACHERS***

**General Information**

Name : Dr. Manish Kumar Verma  
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PAN No. : \*\*\*\*\*872P  
Aadhar No. : \*\*\*\*\* 4385  
Mobile No. : 9650844970  
Phone No. :  
Date of Birth :  
Designation : Head of Department, Assistant Professor  
Department : Physics  
Date of Joining : 21/08/2017  
Date of Conformation :  
Date of Promotion :  
Area of Specialization : Electronics, Physics of Materials



**Academic Qualifications**

Exam Passed	Board/ University	Subjects	Year	Division/ Grade Merit etc.
High School	C.B.S.E.	English, Hindi, Science, Mathematics, Social Science	2000	I
Higher Secondary or Pre-degree	C.B.S.E.	English, Physics, Chemistry, Mathematics, Biology	2002	I
Bachelor's Degree (s)	University of Delhi	Physics (H)	2005	I
Master's Degree (s)	University of Delhi	Physics (Electronics)	2007	I
Research Degree (s)	University of Delhi	Physics of Materials	2013	-
Other Diploma/ Certificates etc.	UGC-CSIR NET-JRF	Physical Sciences	Dec-2006	-

**Research Experience & Training**

Research Stage	Title of work/Theses	University where the work was carried out
Ph. D.	Growth and Characterization of Nanocomposite Thin Films for Sensor Applications	University of Delhi

**Publications**

1. SnO<sub>2</sub>-CuO nanocomposite thin film for fast detection of H<sub>2</sub>S gas, **Manish Verma** and Vinay Gupta, J. Experimental Nanoscience, 8, 3 (2013) 326-331.
2. A Highly sensitive SnO<sub>2</sub>-CuO multilayered sensor structure for detection of H<sub>2</sub>S gas, **Manish Kumar Verma** and Vinay Gupta, Sens. Actuators B 166–167 (2012) 378–385.
3. Enhanced response of Pd nanoparticle activated SnO<sub>2</sub> thin film sensor for H<sub>2</sub> gas, **Manish Kumar Verma** and Vinay Gupta, IEEE Sensors Journal 12 (2012) 2993–2999.
4. Sensing response characteristics towards H<sub>2</sub> with Pt and Pd nanoparticles dispersed on SnO<sub>2</sub>, **Manish Verma** and Vinay Gupta, Sensor Letters 10 (2012) 775-781.
5. Comparison of H<sub>2</sub>S sensing response of hetero-structure sensor (CuO-SnO<sub>2</sub>) prepared by rf-sputtering and pulsed laser deposition, **Manish Verma**, Arijit Chowdhuri, K Sreenivas, and Vinay Gupta, Thin Solid Films 518 (2010) e181–e182.
6. Effect of Dispersal of Pd Nanocatalysts on H<sub>2</sub> Sensing Response of SnO<sub>2</sub> Thin Film Based Gas Sensor, **M.K. Verma**, N. Batra, M. Tomar and V. Gupta, MRS Proceedings, 1494 (2013) 327-332. DOI:10.1557/opl.2013.179.
7. Highly Sensitive ZnO-SnO<sub>2</sub> Composite H<sub>2</sub> Gas Sensor, **M.K. Verma** and V. Gupta, IMCS 2012 – The 14<sup>th</sup> International Meeting on Chemical Sensors, (2012) 787-790, DOI: 10.5162/IMCS2012/P1.0.13
8. Bilayered sensor structures (SnO<sub>2</sub> film-CuO nanolayer) with improved response characteristics for H<sub>2</sub>S gas, **M. Verma**, K. Sreenivas, A. Chowdhuri, V. Gupta, Sensors 2009, IEEE, 1132-1134.

**MAGADH MAHILA COLLEGE  
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**Seminars, Conferences, Symposia Workshops etc. attended**

Sl. No	Name of the Seminar/Conference/ Symposia Workshop, etc.	Name of the Sponsoring Agency	Place and Date
1.	Workshop on Star College Scheme for the Colleges of Bihar and Jharkhand	DBT	Patna Women's College, Patna, 25 January 2018
2.	Workshop on LaTeX and HTML	Department of Mathematics, ANDC, University of Delhi	Acharya Narendra Dev College, University of Delhi, 27 August 2016
3.	International Conference on Emerging Technologies,; Micro to Nano 2013	BITS Pilani, CEERI Pilani, KK Birla Goa Campus,	KK Birla Goa Campus, Goa, 23-24 February 2013
4.	MRS Fall Meeting 2012	MRS	Hynes Convention Center and the Sheraton Boston Hotel, Boston, Massachusetts, 25-30 November 2012
5.	The 14th International Meeting on Chemical Sensors	University of Bayreuth, Department of Functional Materials, AMA	Nuremberg, Germany, 20 – 23 May 2012
6.	International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials-2012	University of Delhi	Department of Physics and Astrophysics, University of Delhi, 13-16 March 2012
7.	23 <sup>rd</sup> Annual General Meeting, Materials Research Society of India, Functional Materials for Sustainable Energy and Advanced Technologies	MRSI	Thapar University, 13-15 February 2012
8.	International Conference on Nanomaterials and Nanotechnology	IAAM, VBRI Press, University of Delhi	Conference Centre, University of Delhi, 18-21 December 2011
9.	2 <sup>nd</sup> International Conference on Advanced Nanomaterials and Nanotechnology	IIT Guwahati	IIT Guwahati, 8-10 December 2011
10.	Indo-European Conference on Quality Assurance in Higher Education	EU, Erasmus Mundus External Cooperation Window 13/15, University of Delhi	Conference Centre, University of Delhi, 6-7 May 2010
11.	International Conference on Materials for Advanced Technologies and International Union of Materials Research Societies- International Conference in Asia-2009	MRS Singapore	Suntec Singapore International Convention and Exhibition Centre, 28 June to 03 July

**MAGADH MAHILA COLLEGE  
PATNA UNIVERSITY**

			2009
12.	Interntional Conference on Nanomaterial Toxicology	INS, IITR	IITR, Lucknow, 5- 7 February 2008
13.	Indo-Australian Symposium on Multifunctional Nanomaterials Nanostructures and Applications 2007	DST India, DEST Australia	Department of Physics and Astrophysics, University of Delhi, 19-21 December 2007
14.	2 <sup>nd</sup> ISSS National Conference on MEMS, Microsensors, Smart Maaterials, Structures and Systems	CSIR, BITS Pilani	CEERI, Pilani, 16- 17 November 2007

**Teaching Experience**

Courses Taught	Name of the University / College / Institution	Duration
U.G. (B.A. /B.Sc., etc. Pass) (B.A. / B.Sc. / etc. Hons.)	1. Department of Physics, Magadh Mahila College, Patna University, Patna	3 Years 6 Months
	2. Department of Physics, Rajdhani College, University of Delhi, Delhi	2 Years
	3. Department of Physics, Deen Dayal Upadhyaya College, University of Delhi, Delhi	3 years, 4 months

**Total Teaching Experience** : 8 Years, 10 Months

Under-graduate (Pass) : 8 Years, 10 Months

Under- graduate (Hons) : 8 Years, 10 Months

**Innovations/Contributions in Teaching :**

- a) Teaching methods : Classroom Lecture, PowerPoint Presentation,
- b) Evaluation methods : Continuous Evaluation, and end Semester exams
- c) Remedial Teaching/ Student Counseling (academic) : Students are invited for their removal of doubts, after the classes

**Participation in Corporate Life:**

**College/University/ Institution:** Participation in all the events organized by the department or college

**Co-curricular Activities :** Secured 2<sup>nd</sup> Position in Men Teachers 100 m race on the occasion of Annual Sports Day 2017-18

**Membership /Participation in Bodies/ Committees:** Head, Department of Physics, Magadh Mahila College; Coordinator PGDCA; NLIST Administrator at Magadh Mahila College, Vice President in Science & IT Society; Member of Editorial group of College Research Journal JIGYASA Asst. Controller, External Examinations; Member of Advisory Committee; Discipline Committee; Library Committee; Assets Verification Committee;, BA/B.Sc. & Self-Financing Courses Sent Up Committee, Time Table Committee

**Any other information** : Worked as Visiting Research Scholar at “Department of Electronic Materials Engineering, Research School of Physical Sciences and Engineering, Australian National University, Australia,” (30 March 2009 - 30 June 2009)



**(Signature of the Teacher)**