

## Faculty Details proforma for Gargi College

Title	First Name Manui	Last Name	Tak	Dhotograph
Designation	Assistant Professor (Adboc)			Photograph
Addross	E-79 LIG-1 Dilshad colony Delbi-110095			-
Address				
Phone No Office				
Residence*	9354281168		-	
Mohile*	9354281168		-	
Email	manvi du@vahoo.com			
Web-Page				-
Educational Qualifications				
Degree	Institution			Year
Ph.D	Department of Phys	ics and Astrophysic	cs/	2016
	University of Delhi			
M.Sc.	Miranda House/University of Delhi			2010
B.Sc. (H)	Miranda House/University of Delhi			2007
Career Profile				
Currently teaching as Assistant professor in Physics Department, Gargi college (DD) since 2019.				
Administrative Assignments				
Material science (Physics)				
Subjects Taught				
Thermal physics, Mechanics, Basic instrumentation skills, scilab, Nuclear and particle physics, Solid state				
Physics.				
Research Guidance				
<u>Nil</u>				
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## Recent Publications

1. "Zinc oxide-multiwalled carbon nanotubes hybrid nanocomposite based urea biosensor", Manvi Tak, Vinay Gupta, Monika Tomar, *Journal of Materials Chemistry B*, 14, (2013), 1871. ISSN no. 2050-7518. Impact factor: 4.72.

2. "Flower-like ZnO nanostructure based electrochemical DNA biosensor for bacterial meningitis detection", Manvi Tak, Vinay Gupta, Monika Tomar, *Biosensors & Bioelectronics*, 59, (2014), 200. ISSN no.: 0956-5663. Impact factor: 5.43.

3. "A highly efficient urea detection using flower-like zinc oxide nanostructures", Manvi Tak, Vinay Gupta, Monika Tomar, *Material science and Engineering C*, 57, (2015), 38. ISSN no. 0928-4931. Impact factor: 3.08.

4. "Realization of zinc oxide-carbon nanotubes nanocomposite based glucose biosensor", Manvi Tak, Vinay Gupta, Monika Tomar, *Science letters, 4, (2015), 70*. ISSN no. 2454 – 7239.

5. "A mediator-less urea biosensor based on Ni doped ZnO thin film", Manvi Tak, Vinay Gupta, Monika Tomar, *Advanced science letters, 20, (2014), 1005.* ISSN no. **1936 – 6612.** Impact factor: 1.25.

6. "Hydrothermally synthesized flower-like zinc oxide nanostructured matrix for amperometric biosensors with enhanced response", Manvi Tak, Vinay Gupta, Monika Tomar, *Advanced science letters*, 20, (2014), 1337. ISSN no. 1936 – 6612. Impact factor: 1.25.

7."ZnO-CNT nanocomposite based electrochemical DNA biosensor for Meningitis detection", Manvi Tak, Vinay Gupta, Monika Tomar, *RSC Advances, 6, (2016), 76214.* ISSN no. 2046 – 2069. Impact factor: 3.28.

8. "An electrochemical DNA biosensor based on Ni doped ZnO thin film for meningitis detection", Manvi Tak, Vinay Gupta, Monika Tomar, *Journal of electroanlytical chemistry*, *792, (2017), 8 – 14.* ISSN no. 1572 – 6657. Impact factor: 2.82.

## Conference Organization/ Presentations

- Presented an oral/poster on **"ZnO nanoflowers based matrix for Glucose Biosensor"** in International Conference on Nanomaterials & Nanotechnology held at University of Delhi (2012).
- Presented an oral/poster on **"ZnO nanoflowers based Biosensor for Urea detection"** in 23rd Annual General Meeting Materials Research Society of India (AGM-MRSI) held at Thapar University, Patiala, (2011).
- Delivered an oral presentation on "ZnO nanoflowers based Biosensor for Urea detection" in the National Seminar – "The Human Mystique: Contemporary Discourses" at University of Delhi, (2012)
- · Attended one-day workshop on Nanostructured Ceramics and Other Nanomaterials during

International Conference held at Department of Physics & Astrophysics, University of Delhi, (2012).

- Presented an oral/poster on "ZnO thin film based matrix for efficient Glucose detection" in 1<sup>st</sup> winter workshop on Engineering at Nanoscale, From Materials to Bio-sensors held at IIT, Indore (2012).
- Presented an oral presentation on **"ZnO nanoflowers based matrix for efficient Glucose detection"** in Nanostructured Ceramics and Other Nanomaterials during International Conference held at Department of Physics & Astrophysics, University of Delhi, (2012).
- Presented an oral presentation on **"A mediator-less urea biosensor based on Ni doped ZnO thin film"** in International Conference on Nanoscience & Nanotechnology held at Babasaheb Bhimrao Ambedkar University, Lucknow, (2013).
- Presented a poster presentation on **"Hydrothermally synthesized flower-like zinc oxide nanostructured matrix for amperometric biosensors with enhanced response"** in International Conference on National conference on Nanotechnology and Renewable energy (NCNRE) held at Jamia Millia Islamia, Delhi, (2014).
- Attended one-day workshop on "Advances in Radiation Biodosimetry" of DRDO held at Institute of Nuclear Medicine & Allied Sciences (INMAS), Delhi, (2014).
- Presented an oral presentation on **"Fabrication of Ni doped ZnO based glucose biosensor with enhanced biosensing response characteristics"** in the 9<sup>th</sup> National on Solid State Chemistry and Allied Areas (ISCAS-2015) held at University of Delhi.
- Presented a poster presentation on **""Flower-like ZnO nanostructures based DNA biosensor for meningitis detection"** in the 6<sup>th</sup> International symposium on Integrated Functionalities (ISIF-2017) held at Shangri-La's Eros Hotel, New Delhi, India (2017).

Research Projects (Major Grants/Research Collaboration)

Nil

Awards and Distinctions

NET-JRF (UGC), 2010

## Association With Professional Bodies

Nil

Other Activities

Nil