



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



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## 1. Personal Profile

Title: **Dr.** First Name: **MANISHA** Last Name: **TYAGI**

Designation: **ASSISTANT PROFESSOR** Mobile No. -----

Phone No. (Office) **9654962360** Phone No. (Residence): -----

Email: **manishatyagi733@kmc.du.ac.in** Webpage: -----



Facebook: ----- Twitter: -----

LinkedIn: ----- Instagram: -----

Youtube: ----- Research Gate Link: <https://www.researchgate.net/profile/Manisha-Tyagi-4>

Google Scholar Link: <https://scholar.google.com/citations?user=ieKK84sAAAAJ&hl=en&oi=ao>

Address: -----

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
Ph.D	Department of Physics and Astrophysics, University of Delhi	2014
M.Sc(Physics)	Miranda House, University of Delhi	2009
B.Sc(Physics)	Miranda House, University of Delhi	2007

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	24.Jul.2013 - Till date	
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS MIRANDA HOUSE, DELHI	03.Jan.2013 - 23.Jul.2013	
CAREER PROFILE	ASSISTANT	PHYSICS UNIVERSITY OF DELHI, DELHI	01.Aug.2009 - 02.Jan.2013	



ADMINISTRATIVE ASSIGNMENTS	CONVENER	PHYSICS kirori Mal College, University Of Delhi	20.Jul.2023 - 30.Jun.2024	Convener: Physics seminar society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PROCTOR & DISCIPLINE COMMITTEE kirori Mal College, University Of Delhi	20.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ALUMNI COMMITTEE kirori Mal College, University Of Delhi	06.Apr.2024 - 06.Apr.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	G20 COMMITTEE kirori Mal College, University Of Delhi	16.Nov.2023 - 17.Nov.2023	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ROVER CLUB kirori Mal College, University Of Delhi	20.Jul.2023 - 30.Jun.2024	

#### 4. Other Profiles

##### Other Profile Name/ Description

##### SUBJECTS TAUGHT

1. Analog Systems and Applications
2. Solid State Physics
3. Mechanic
4. Electromagnetic theory
5. Numerical Analysis
6. Quantum Mechanics Scilab
7. Elements of Modern Physics
8. Statistical Mechanics Scilab

##### AWARDS AND DISTINCTIONS

1. Qualified **NET-JRF (CSIR)** held on December 2008.
2. Got **SPM (Shyama Prasad Mukherjee fellowship)** call in physics.
3. Awarded **University Teaching Assistance ship (UTA)** in the department of Physics and Astrophysics, University Of Delhi, Delhi in 2009.
4. Got **all India rank of 15** in “Graduate Aptitude Test in Engineering (**GATE**)” in 2009.
5. Got **all India rank of 41** in “Joint Entrance Screening Test (**JEST**)” in 2009.
6. Cleared Entrance exam of “**Bhabha Atomic Research Centre (BARC)**” in 2009.
7. Got **2<sup>nd</sup> rank in Miranda House, University of Delhi and 4<sup>th</sup> rank in University of Delhi, in B.Sc. (Physics)**, 2007.
8. Among the **top 10 students of MSc. Department of Physics and Astrophysics** in 2009.
9. Got **meritorious award** fellowship during BSc. & MSc.**Meera Singla Memorial scholarship in B.Sc.** for obtaining highest marks in mathematical physics.

#### 5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
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## 6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
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## 7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month- Year)
JOURNAL PAPER (International)	Trap assisted space charge conduction in p-NiO/n-ZnO heterojunction diode	Materials Research Bulletin	Manisha Tyagi (First Author)	<a href="https://dx.doi.org/10.1016/j.materresbull.2015.02.015">https://dx.doi.org/10.1016/j.materresbull.2015.02.015</a>	February 2015
JOURNAL PAPER (International)	Fabrication of an efficient GLAD-assisted p-NiO nanorod/n-ZnO thin film heterojunction UV photodiode	Journal of Materials Chemistry C	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1039/C3TC32030H">https://doi.org/10.1039/C3TC32030H</a>	January 2014
JOURNAL PAPER (International)	Glad assisted synthesis of NiO nanorods for realization of enzymatic reagentless urea biosensor	Biosensors and Bioelectronics	Manisha tyagi (First Author)	<a href="https://doi.org/10.1016/j.bios.2013.08.020">https://doi.org/10.1016/j.bios.2013.08.020</a>	February 2014
JOURNAL PAPER (International)	Analysis of the i-v characteristics of the in/p-nio/pt/si schottky diode	Advanced Science Letters	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1166/asl.2014.5452">https://doi.org/10.1166/asl.2014.5452</a>	May 2014
JOURNAL PAPER (International)	NiO nanoparticle-based urea biosensor	Biosensors and Bioelectronics	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1016/j.bios.2012.07.062">https://doi.org/10.1016/j.bios.2012.07.062</a>	March 2013



JOURNAL PAPER (International)	Postdeposition annealing of NiOx thin films: A transition from n-type to p-type conductivity for short wave length optoelectronic devices	Journal of Materials Research	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1557/jmr.2012.443">https://doi.org/10.1557/jmr.2012.443</a>	March 2013
JOURNAL PAPER (International)	P-N junction of NiO thin film for photonic devices	IEEE Electron Device Letters	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1109/LED.2012.2223653">https://doi.org/10.1109/LED.2012.2223653</a>	January 2013
JOURNAL PAPER (International)	Influence of hole mobility on the response characteristics of p-type nickel oxide thin film based glucose biosensor	Analytica Chimica Acta	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1016/j.aca.2012.03.027">https://doi.org/10.1016/j.aca.2012.03.027</a>	May 2012
JOURNAL PAPER (International)	Influence of post-deposition annealing on structural, optical and electrical characteristics of NiO/ZnO thin film hetero-junction	MRS Online Proceedings Library	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1557/opl.2012.475">https://doi.org/10.1557/opl.2012.475</a>	December 2012
JOURNAL PAPER (International)	Optical properties of NiO thin films: A potential material for optoelectronic devices	Advanced Materials Research	Manisha Tyagi (First Author)	<a href="https://doi.org/10.4028/www.scientific.net/AMR.488-489.103">https://doi.org/10.4028/www.scientific.net/AMR.488-489.103</a>	February 2012



RESEARCH PAPERS (International)	Enhanced electron transfer properties of NiO thin film for the efficient detection of urea	Materials Science and Engineering	Manisha Tyagi (First Author)	<a href="https://doi.org/10.1016/j.mseb.2018.10.015">https://doi.org/10.1016/j.mseb.2018.10.015</a>	January 2019
RESEARCH PAPERS (International)	High gain NiO/ZnO heterojunction photodiodes operated in Deep-ultraviolet region	Thin Solid Films/Elsevier	Manisha Tyagi, V. Bhasker Raj, Monika Tomar (First Author, Corresponding Author)	<a href="https://doi.org/10.1016/j.tsf.2024.140389">https://doi.org/10.1016/j.tsf.2024.140389</a>	May 2024
RESEARCH PAPERS (International)	Analysis of interface states in Zn/p-NiO Schottky barrier diode	Journal of Material Science: Material of Electronics	Manisha Tyagi and V. Bhasker Raj (First Author, Corresponding Author)	<a href="https://doi.org/10.1007/s10854-024-13266-0">https://doi.org/10.1007/s10854-024-13266-0</a>	July 2024

## 8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
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## 9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	University	Workshop on “Vedic Mathematic”	11.Mar.2023 - 13.Mar.2023
2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	University	Workshop on “Arduino Programming”	24.Mar.2023 - 25.Mar.2023
2023	REFRESHER COURSE ATTENDED	PARTICIPANT	National	Online Two-week Refresher Course in "PHYSICS"	27.Feb.2023 - 13.Mar.2023
2022	FACULTY INDUCTION PROGRAM ATTENDED	PARTICIPANT	National	4-Week Induction/Orientation Program for “Faculty in Universities/Colleges/Institutes of Higher Education”	21.Dec.2022 - 19.Jan.2023
2022	REFRESHER COURSE ATTENDED	PARTICIPANT	National	Inter-Disciplinary Two Week Refresher Course on “Managing Online Classes & Co-creating MOOCS 21.0”	07.Dec.2022 - 21.Dec.2022



2024	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	University	NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME	07.May.2024 - 16.May.2024
2024	SEMINAR ATTENDED	PARTICIPANT	University	Internationalisation of Higher Education	13.Jan.2024 - 13.Jan.2024

**Dr. MANISHA TYAGI**