



**DESHBANDHU COLLEGE**  
**(UNIVERSITY OF DELHI)**  
**KALKAJI, NEW DELHI - 110019**  
**Faculty Details Proforma for College Website**

Title	Dr.	First Name	Reeta	Last Name	Photograph
Designation	<b>Assistant Professor</b>				
Address	<b>Physics Department Deshbandhu College University of Delhi</b>				
Phone No. Office					
Residence	<b>9873690463</b>				
Mobile					
Email	<a href="mailto:reeta@db.du.ac.in">reeta@db.du.ac.in</a>				
Web-Page	<a href="https://sites.google.com/db.du.ac.in/reetasingh/home">https://sites.google.com/db.du.ac.in/reetasingh/home</a>				
<b>Educational Qualifications</b>					
Degree	Institution			Year	
Ph.D.	<b>C.C.S. University, Meerut, U.P.</b>			<b>2016</b>	
M.Phil.	<b>NA</b>				
PG	<b>Banasthali Vidyapeeth, Banasthali, Rajasthan</b>			<b>2007</b>	<b>79.68</b>
UG	<b>Bikaner University, Bikaner, Rajasthan</b>			<b>2005</b>	<b>82.86</b>
XII	<b>Board of Secondary Education, Ajmer, Rajasthan</b>			<b>2001</b>	<b>77.08</b>
X	<b>Board of Secondary Education, Ajmer, Rajasthan</b>			<b>1999</b>	<b>78.17</b>
<b>Career Profile</b>					
2 years teaching experience in Maitreyi College, University of Delhi. 8 Years teaching experience in Deshbandhu College, University of Delhi					
<b>Administrative Assignments</b>					
<b>Areas of Interest/Specialization</b>					
<b>Photovoltaic cells.</b> <b>Programing in Scilab, MATLAB, C++</b>					
<b>Subjects Taught</b>					
<b>Thermal and Statistical Physics, Mathematical Physics, Quantum Mechanics</b>  <b>Wave &amp; Optics, Elements of Modern Physics.</b>					
<b>Publications Profile</b>					
<ul style="list-style-type: none"> <li>N. D. Kaushika, Reeta “<i>Simulation model of High efficiency Solar Cells</i>”, Energy Science and Technology (EST), Vol.2, No.1, 2011, pp. 00-09.</li> <li>Reeta, N. D. Kaushika, “<i>Wave mechanical analysis of quantum dot materials for solar cell applications</i>”, International Transactions in Applied Sciences (ITAS), 2014, Vol.6, No.1, pp.55-62</li> <li>Reeta, “<i>Simulation model for triple junction Solar Cells</i>”, International Conference on Photovoltaic (19-21 December, 2012)”, Bhubaneswar, India, pp-125-129</li> </ul>					

- Reeta, N. D. Kaushika “*Advances in the efficiency of solar cells*”, National Conference on Renewable energy (NaCore-2009), Jodhpur (Rajasthan), pp.338-341

#### Conference Organization/ Presentations

- National conference on Renewable Energy (NaCoRE-2009) 5-7 November 2009, organized by Vyas Institute of Engineering and Technology, Jodhpur, Rajasthan.
- Attended a workshop on Advanced Materials for future energy requirements (WAMFER 2012) 29Nov-1 Dec. organized by Department of Physics and Astrophysics, University of Delhi.
- International conference on “Physics, Society and Technology (ICPST-2019)” organized by Deshbandhu College, University of Delhi.
- Participated in “International conference on Bhartiya Women Past, Present and Future” organized by Shaikshik Foundation in association with Deshbandhu college, University of Delhi. 23-24 February, 2019
- One-Week online Faculty development Program on “Development and delivery of MOOCs and E-Content” jointly organized by Deshbandhu College and Central University of Haryana, Mahendergarh from 26 July to 1 June 2020.
- Participated in three days online workshop on “Programming and Software tools for UG courses” from 19<sup>th</sup> -21<sup>st</sup> March, 2021, organized by Department of Physics and Electronics, Rajdhani College, University of Delhi.
- Participated in webinar “Introduction to COMSOL Multiphysics” organized by Department of Physics, Deshbandhu College, University of Delhi on 25 March 2021.
- Participated in webinar “Emerging trends in contemporary Physics” organized by Department of Physics, Deshbandhu College, University of Delhi on 31 March 2021.
- Participated in National webinar “Energy Efficient Innovations and Applications” organized by Department of Physics, Maitreyi, University of Delhi on 30 June 2021.
- Attended one week international faculty Development programme on “Materials characterization: Experimental and Theoretical aspects” organized by Mahatama Hansraj Faculty Development Centre, Hansraj College, University of Delhi from 20-24 September 2021.

#### Research Projects (Major Grants/Research Collaboration)

Innovation Project by University of Delhi in 2015-2016 on “Green approach to synthesize noble metal nanoparticles and their application in Surface Plasmon Raman Spectroscopy.”

#### Awards and Distinctions

- Gargi Prize by Government of Rajasthan in Senior Secondary.
- University 2<sup>ND</sup> rank holder in Graduation from Bikaner University, Rajasthan.
- PG-Merit scholarship by UGC during Post-graduation.
- Gold Medalist in Post-Graduation from Banasthali Vidyapeeth, Rajasthan.
- Awarded INSPIRE Fellowship to pursue doctorate in Physics by Department of Science and Technology (DST).
- UGC-NET qualified in Physics with all India rank-15.
- GATE qualified in Physics.
- Selected as an Assistant Professor by Uttar Pradesh Public Service Commission in February, 2021.

#### Association With Professional Bodies

Reeta

Signature of Faculty  
Member