



**DESHBANDHU COLLEGE**  
**(UNIVERSITY OF DELHI)**  
**KALKAJI, NEW DELHI - 110019**  
**Faculty Details Proforma 2022**

Title	Ms.	First Name	SITAKSHI	Last Name	GUPTA	Photograph
Designation	Assistant Professor					
Address	Hauz Khas, New Delhi-110016					
Phone No. Office						
Residence Mobile	9625884901					
Email	<a href="mailto:sitakshi.gupta19.sg@gmail.com">sitakshi.gupta19.sg@gmail.com</a> , <a href="mailto:sgupta2@db.du.ac.in">sgupta2@db.du.ac.in</a>					
Web-Page	<a href="https://sites.google.com/db.du.ac.in/sitakshi-gupta/home">https://sites.google.com/db.du.ac.in/sitakshi-gupta/home</a>					
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	Currently pursuing <b>Ph.D in Physics</b> from <b>Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi</b> in collaboration with <b>Department of Physics &amp; Astrophysics, University of Delhi</b>				N/A	
PG	<b>M. Sc. Physics</b> from <b>Jamia Millia Islamia University, Delhi</b>				<b>2015</b>	
UG	<b>B. Sc. Hons. Physics</b> from <b>Hansraj College, University of Delhi, Delhi</b>				<b>2013</b>	
Any other qualification	<b>CSIR-UGC National Eligibility Test (NET) Qualified</b>				<b>2016</b>	
	<b>GATE Qualified</b>				<b>2016</b>	
<b>Career Profile</b>						
S.No	Designation	Institution		Time Period	Nature of Appointment	
1.	Assistant Professor	Deshbandhu College, University of Delhi		28 <sup>th</sup> Nov 2022-present	Permanent	
2.	Assistant Professor	Daulat Ram College, University of Delhi		January 2022-Oct 2022	Ad-hoc	
3.	Assistant Professor on Guest Basis by New Selection Committee	Miranda House, University of Delhi		September 2019-December 2021	Guest	
4.	Guest Faculty	Hansraj College, University of Delhi		February 2019-April 2019	Guest	
5.	Guest Faculty	Zakir Hussain Delhi College, University of Delhi		February 2019-April 2019	Guest	
5.	Teaching cum Research Fellow (IGDTUW JRF+SRF)	Indira Gandhi Delhi Technical University for Women, Delhi		October 2016-January 2019	Stipend-based	

6.	Guest Faculty	Indira Gandhi Delhi Technical University for Women, Delhi	August 2015-September 2016	Guest
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#### Administrative/Academic Assignments

##### Academic Assignments

1. External Examiner in the End-Semester Practical Examinations (May 2022) at Bhagini Nivedita College, appointed by Department of Physics & Astrophysics, University of Delhi.
2. End-semester answer sheet evaluation in the years 2019 and 2022 at University of Delhi.
3. OBE Online Invigilation and Evaluation for End-Semester Examinations at University of Delhi, 2019-2020, 2020-2021. Received the Certificate of Appreciation for timely evaluation of OBE held in June 2021, Dec 2021 and March 2022.
4. Question Paper Setter in the Board of Examiners appointed for End-Semester Examinations May-June 2019 at Department of Physics & Astrophysics, University of Delhi.

##### Contribution to Activities/Committees (at DRC)

1. Member of Women's Development Cell (Pragati, WDC) in session 2022-23.
2. Member of Enabling Unit (Equal Opportunity Cell) in session 2022-23.
3. Website Committee Representative from Physics department for the current session 2022-23.
4. Team Manager for the Physics department first year student team for Intra-college Fresher's Sports Meet 2022.
5. Member (from Physics Department) of team for India Today MDRA Best Colleges Ranking (Science) Work in 2022.

#### Areas of Interest/Specialization

Experimental Material Science, Nanomaterial synthesis & applications, Metal oxide semiconductors, Graphene, Laser & Spectroscopy

#### Subjects Taught

S.No	Course	Subject Taught	Semester	Year
1.	B.Sc. (H) Physics	Mathematical Physics-II (Th+Lab)	III	2022
2.	B.Sc. (H) Physics	Advanced Mathematical Physics (Th+Lab)	V	2022
3.	B.Sc. (H) Physics	Waves & Optics (Th+Lab)	II	2022
4.	B.Sc. (H) Physics	Mathematical Physics-I & III (Th+Lab)	I	2022
5.	B.Sc. (H) Physics	Classical Dynamics	VI	2022
6.	B.Sc. (H) Physics	Mechanics (Th+Lab)	I	2021, 2020
7.	B.Sc. (H) Physics	Linear Algebra & Tensor Analysis	V	2021
8.	B.Sc. (H) Physics	Electromagnetic Theory	VI	2020, 2021

9.	B.Sc. (H) Physics	Digital Systems & Applications (Th+Lab)	III	2019		
10.	B.Sc. (H) Physics	SEC- Electrical Circuit & Network Skills (Th+Lab)	IV	2019		
11.	B.Sc. (H) Maths	GE- Mechanics (Th+Lab)	II	2019		
12.	B.Sc. Physical Sciences	SEC- Computational Physics Skills (Th+ Fortran Lab)	VI	2019		
13.	B.Tech. Mechanical & Automation Engineering	Applied Physics-I/II (Th+Lab)	I/II	2015, 2016, 2017, 2018		
<b>Research Guidance</b>						
N/A						
<b>Publications Profile</b>						
S.No	Publication details (Authors, Title of article, Journal, Volume, Issue, Year, Page range of article, URL/DOI)	Month/Year of Publication	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No	ISSN No
1.	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur, One-pot wet chemical synthesis of reduced graphene oxide-zinc oxide nanocomposites for fast and selective ammonia sensing at room temperature, Sensors and Actuators A: Physical, Volume 333 (2021) 112965. <a href="https://doi.org/10.1016/j.sna.2021.112965">https://doi.org/10.1016/j.sna.2021.112965</a>	November 2021	4.2	Yes	SCI & Scopus	0924-4247
2.	Sitakshi Gupta, Chhaya Ravikant, Reduced Graphene Oxide-Zinc Oxide Nanocomposites for Gas Sensing Applications (Review), Advanced Materials Proceedings, Volume 3 (2018) 193-198. <a href="https://10.5185/amp.2018/025">https://10.5185/amp.2018/025</a>	April 2018	N/A	No	N/A	2002-4428
3.	Sitakshi Gupta, Chhaya Ravikant; Nanocomposites of Reduced Graphene Oxide-Tin Oxide for Air- Pollution Monitoring by Toxic Gas Detection: A Review; Annals of Multidisciplinary Research; Volume 8 (2018)	2018	N/A	No	N/A	2249-8893
<b>Conference Organization/ Presentations</b>						
<b>Research Paper Presentations (as presenting author)</b>						

S. No	Type of Conference	Name of Conference	Venue of conference	Date of conference	Authors	Title of paper presented
1.	E-International Conference	International Conference on Nanotechnology- Opportunities & Challenges (ICNOC-2022)	Jamia Millia Islamia Platform: Cisco Webex	28 <sup>th</sup> -30 <sup>th</sup> November 2022	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur	Facile Wet Chemical Synthesis of rGO/ZIF-8 MOF Nanocomposites as Room Temperature Ammonia Gas Sensors
2.	E-International Conference	International E-Conference on Nanomaterials & Nanoengineering (APA Nanoforum-2022)  <b>[Received Student Oral Presentation Award]</b>	National Physical Laboratory, Delhi and IIT Delhi Platform: Zoom	24 <sup>th</sup> -26 <sup>th</sup> Feb 2022	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur	Chemically modified reduced graphene oxide-zinc oxide nanocomposites with high ammonia detectability at room temperature  (Oral)
3.	E-International Conference	2 <sup>nd</sup> International Conference on Advances in Smart Materials & Emerging Technologies (ASMET-2021)	Department of Applied Sciences & Humanities, Indira Gandhi Delhi Technical University for Women in association with OPTICA (formerly OSA) Platform: Cisco Webex	20 <sup>th</sup> -21 <sup>st</sup> December 2021	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur	Investigating the effect of rGO content on the ammonia sensing response of rGO-ZnO nanocomposites  (Oral)

4.	E-National Conference	National Conference on Chemistry of Chalcogenides	Organized by: Department of Applied Chemistry, Defence Institute of Advanced Technology, Pune	24th-25th March 2021	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur	Quantifying the effect of humidity and aging on the ammonia gas sensing response of rGO-ZnO nanocomposites  (Oral)
5.	International Conference	International Conference on Advances in Smart Materials & Emerging Technologies  (ASMET-2020)	Organized by: Department of Applied Sciences & Humanities, Indira Gandhi Delhi Technical University for Women	23 <sup>rd</sup> -24 <sup>th</sup> January 2020	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur	Study of Room Temperature Ammonia Vapour Sensing of rGO-ZnO nanocomposites and Crystallite Size Determination using W-H method  (Oral)
6.	International Conference	International Conference on Recent Trends in Materials & Devices (ICRTMD-2019)	Organized by: Amity Institute of Applied Sciences & Amity Institute for Advanced Research and Studies (Materials & Devices)	18 <sup>th</sup> -19 <sup>th</sup> December 2019	Sitakshi Gupta, Chhaya Ravikant, Amarjeet Kaur	Reduced Graphene Oxide-Zinc Oxide Nanocomposites for Highly Selective Room Temperature Ammonia Vapour Detection  (Poster)
7.	International Conference	6 <sup>th</sup> International Conference on Ecotoxicology and Environmental Sciences  <b>[Received SILVER MEDAL AWARD for Outstanding Oral Presentation]</b>	Organised by Institute of Ecotoxicology and Environmental Sciences, Kolkata and Netaji Subhas Institute of Technology, Delhi	19 <sup>th</sup> -21 <sup>st</sup> February 2018	Sitakshi Gupta, Chhaya Ravikant	Recent Advances in Chemical & Gas Sensors based on Graphene-Metal Oxide Nanocomposites

8.	International Conference	International Conference on Nanomaterials and Nanotechnology	Vinoba Bhawe Research Institute, Allahabad	1 <sup>st</sup> -3 <sup>rd</sup> March 2017	Sitakshi Gupta, Chhaya Ravikant	Reduced Graphene Oxide-Zinc Oxide Nanocomposites for Gas Sensing Applications' (Review)
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**Resource Person/Organizing Team Member (Conference/seminar/workshop/training programme)**

S. No	Type of Event	Name of Event	Organising body & Venue	Date of Event (Start Date-End Date)	State your role: Convener/Member organizing committee/Speaker/Coordinator	Duration of Activity
1.	Workshop	Career Opportunity Workshop	Enabling Unit of Daulat Ram College in collaboration with Inclusive Divyangjan Entrepreneur Association Venue: Conference Hall, DRC	12 <sup>th</sup> Sept 2022	Member of Organizing Committee	One-day
2.	Expert Lecture & Interactive Session	Rashtra Nirman Mein Yuvtiyon Ki Bhumika	Pragati, Women's Development Cell, Daulat Ram College Venue: Conference Hall, DRC	7 <sup>th</sup> Sept 2022	Member of Organizing Committee	One-day
3.	National Level Consultation Webinar	Draft National Policy for Persons with Disabilities	Enabling Unit, Daulat Ram College	13 <sup>th</sup> July, 2022	Member of Organizing Committee	One-day
4.	Inter-College Competition	'Dissension', online Inter-College Scientific Debate Competition held as part of	Coherence, Physics Association of Daulat Ram College	3 <sup>rd</sup> March 2022	Faculty Coordinator	One-day

		'Celeste 2022', the Annual Fest				
4.	Two-day Workshop	Enhancing Programming Skills With Python and XCOS	Department of Physics, Daulat Ram College, University of Delhi	13th-14th January 2022	Member of Organizing Committee	Two days
5.	Online Lecture Series	Understanding Physics: Basics & Beyond	Department of Physics, Daulat Ram College, University of Delhi	12 <sup>th</sup> Jan 2022 onward	Member of Organizing Committee	Weekly (for one month)
6.	International Conference	2 <sup>nd</sup> International Conference on Advances in Smart Materials & Emerging Technologies (ASMET-2021)	Department of Applied Sciences & Humanities, Indira Gandhi Delhi Technical University for Women in association with OPTICA (formerly OSA) Platform: Cisco Webex	20 <sup>th</sup> -21 <sup>st</sup> December 2021	1) Session Coordinator 2) Member of Local Organising Committee 3) Member of Abstract Booklet Design Team	Two-day
7.	Experimental Workshop for UG Science Students	'Flavor of Research'- Investigative Projects in Multidisciplinary Context	DSK Centre for Research & Innovation in Science Education, Miranda House, University of Delhi	30 <sup>th</sup> June- 9 <sup>th</sup> August, 2020	Joint Project Mentor (Project title: Particle Size Analysis for MoS <sub>2</sub> and ZnO-GO nanomaterials)	1 month 10 days
8.	International Conference	International Conference on Advances in Smart Materials & Emerging Technologies (ASMET-2020)	Department of Applied Sciences & Humanities, Indira Gandhi Delhi Technical University for Women in association with IGDTUW OSA Student Chapter	23 <sup>rd</sup> -24 <sup>th</sup> January 2020	Member of Student Organizing Committee	Two-day

9.	Training Programme	Undergraduate Physics Revision Classes: Summer 2019	Department of Physics & Astrophysics, University of Delhi	June 17-29, 2019	Resource Person (conducted 2 sessions on Waves & Optics)	12 days
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**Research Projects (Major Grants/Research Collaboration)**

NA

**Awards and Distinctions**

S.No	Name of Award	Awarding Agency	Recognition area	Date of award (DDMMYY)	Type of Honor received
1.	Student Oral Presentation Award	National Physical Laboratory, Delhi and IIT Delhi	For oral talk at the International E-Conference on Nanomaterials & Nanoengineering (APA Nanoforum-2022)	26 <sup>th</sup> Feb 2022	Certificate
2.	SILVER MEDAL AWARD for Outstanding Oral Presentation	Institute of Ecotoxicology and Environmental Sciences, Kolkata and Netaji Subhas Institute of Technology, Delhi	For oral presentation at 6 <sup>th</sup> International Conference on Ecotoxicology and Environmental Sciences	21 <sup>st</sup> Feb 2018	Silver medal & certificate
3.	Jamia Merit Scholarship for 1 <sup>st</sup> Position Holders	Jamia Millia Islamia	For being the Topper of the Course (M.Sc. Physics) in the First year(1 <sup>st</sup> + 2 <sup>nd</sup> semester) in M.Sc. Physics	Academic session (2013-14)	Scholarship

**Association With Professional Bodies**

**Membership of Professional Bodies**



S.No	Type of Membership	Organisation	Year of Membership(Start Date )
1.	5-year Member	International Association of Advanced Materials	1 <sup>st</sup> March 2017
<b>Research Fellowships:</b>			
Designation	Institute	Time period	Nature of Appointment
IGDTUW Junior Research Fellow (JRF)	Indira Gandhi Delhi Technical University for Women, Delhi	1 <sup>st</sup> Oct 2016 to 30 <sup>th</sup> Sept 2018	N/A
IGDTUW Senior Research Fellow (SRF)	Indira Gandhi Delhi Technical University for Women, Delhi	1 <sup>st</sup> Oct 2018 to 31 <sup>st</sup> Jan 2019	N/A

Signature of Faculty  
Member