


**STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE**

Title	Prof. (Dr.)	First Name	Shipra Mital	Last Name	Gupta	
Designation		Professor				
School /Dept. Name		University School of Basic and Applied Sciences				
Address:		Room No. BFR-108, University School of Basic and Applied Sciences Guru Gobind Singh Indraprastha University Sector 16 C Dwarka, New Delhi 110078				
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Web Page (if any)		Google Scholar: <a href="https://scholar.google.co.in/citations?user=fWSpPwAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=fWSpPwAAAAJ&amp;hl=en</a> Scopus: <a href="https://www.scopus.com/authid/detail.uri?authorId=55495195500">https://www.scopus.com/authid/detail.uri?authorId=55495195500</a> Web of Science: <a href="https://www.webofscience.com/wos/author/record/AAP-6069-2020">https://www.webofscience.com/wos/author/record/AAP-6069-2020</a>				
Subjects Taught		Microorganisms and Bionanocomposites Nanotoxicology Soft Synthetic Routes & Novel Nanomaterials Carbon Nanostructures Nanocomposites Synthesis of Nanomaterials & Introduction to Nanocomposites Physical Chemistry				
Areas of Interest/ Specialization		Nanoscience & Nanotechnology / Chemistry				
Experience (in years)		Total	24			
		Industry	-			
		Teaching	18			
		Research	24			
Educational Qualifications		UG	B. Sc. (Ist Div.) in 1997			

	PG	M. Sc. In Chemistry (1st Div. with Hons.) at Department of Chemistry, IIT Roorkee in 1999
	Doctorate	Ph.D. on Synthesis, photophysics and photocatalytic action of surface-capped Q-CdS nanoparticles at Department of Chemistry, IIT Roorkee in 2003
	Any other	Post Doctoral Research at National Institute of Advanced Industrial Science and Technology Tsukuba Central 2, Tsukuba 305-8568, Japan from 2004 to 2006.
Research Publications in Journals (last 5 years)		<ol style="list-style-type: none"> <li>1. Amit Singhania and <b>Shipra Mital Gupta</b> “Ce<sub>1-x</sub>O<sub>2</sub>Cu<sub>x</sub> nanoparticles: synthesis, characterization and catalytic activity for phenol degradation” Journal of Nanoscience and Nanotechnology, 19(8), 5220-5226 (2019).</li> <li>2. Nikita, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Carbon Nanotubes: Synthesis, Properties and Engineering Applications” Carbon Letters, 29(5), 419-447 (2019).</li> <li>3. Kriti Singh, S K Sharma, <b>Shipra Mital Gupta</b>, “Preparation of long duration stable CNT nanofluid using SDS” Integrated Ferroelectrics, 204(1), 11-22 (2020).</li> <li>4. Babita, S.K. Sharma, <b>Shipra Mital Gupta</b> “Experimental studies on pressure drop/friction factor of CNT nanofluids flowing through helical coils and development of a new empirical correlation” Journal of Dispersion Science and Technology 41(4), 607-617 (2020).</li> <li>5. Nikita, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Synthesis, Characterization and dispersion stability of water based Cu-CNT hybrid nanofluid without surfactant” Microfluidics and Nanofluidics 25(2), (2021).</li> <li>6. Babita, S.K. Sharma, <b>Shipra Mital Gupta</b>, “Experimental studies of f-CNT nanofluids in a helical coil heat exchanger” Arabian Journal for Science and Engineering 47, 5821-5840 (2022).</li> <li>7. Priyanka, <b>Shipra Mital Gupta</b>, S.K. Sharma, “A review on stabilization of carbon nanotube nanofluid” Journal of Thermal Analysis and Calorimetry 147, 6537-6561 (2022).</li> <li>8. Kriti Singh, S. K. Sharma, <b>Shipra Mital Gupta</b>, “Synergetic effect of SDS/GA mixture on stability of aqueous CNT nanofluid” World Journal of Chemical Education 10(3), 95-104 (2022).</li> <li>9. Nikita, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Synthesis of in situ Cu-CNT hybrid nanofluid and study of their thermo-physical properties” Chemistry Select, 8(3), e202203102, (2023).</li> <li>10. Shailja Pandey, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Plasmonic nanoparticle’s anti-aggregation application in sensor development for water and wastewater analysis” Environmental Monitoring and Assessment 195:874 (2023).</li> <li>11. Priyanka Yadav, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Preparation and characterization of surfactant-free</li> </ol>

	<p>CNT based nanofluid in EG/water (60:40) basefluid for refrigerant application”- Journal of Thermal Analysis and Calorimetry 148, 10037-10050 (2023).</p> <p>12. Priyanka Yadav, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Evaluation of stabilization and physical-chemical properties of CNT antifreeze nanofluid prepared in 50:50 EG/water by modified strategy”- ChemEngineering 7(6), 117 (2023).</p>		
Papers Published in Conference Proceedings (last 5 years)	<p>1. Nikita, <b>Shipra Mital Gupta</b>, S.K. Sharma, “Preparation of stable metal/COOH-MWCNT hybrid nanofluid” Materials Today: Proceedings 36(3), 649-656 (2021).</p> <p>2. Kriti Singh, S. K. Sharma, <b>Shipra Mital Gupta</b>, “An experimental investigation of hydrodynamic and heat transfer characteristics of surfactant-water solution and CNT nanofluid in a helical coil-based heat exchanger” Materials Today: Proceedings 43(6), 3896-3903 (2021). Shailja Pandey, S.K. Sharma, <b>Shipra Mital Gupta</b>, “Detection of Mercury Ions Using PVP-Capped AgNPs for Wastewater Analysis”- Springer Proceedings in Materials 27, 383-388 (2024).</p>		
Books Authored/Book Volume Chapters	<p><b>Book</b></p> <p>1. Risal Singh and <b>Shipra Mital Gupta</b> “Introduction to Nanotechnology”, Oxford University Press (2016). ISBN-10: 019945678X, ISBN-13: 978-0199456789.</p> <p><b>Book Chapters</b></p> <p>1. Contributing Author in “Engineering Chemistry”, Wiley India Pvt. Ltd. (2011). ISBN: 978-81-265-1988-0.</p> <p>2. <b>Shipra Mital Gupta</b>, Priyanka Yadav and S. K. Sharma “Synthesis and Properties of Nano-Surfactants” in Surfactants from Renewable Raw Materials, eds. Divya Bajpai Tripathy, Anjali Gupta, Arvind Kumar Jain and Anuradha Mishra, CRC Press, Taylor &amp; Francis Group (2022). ISBN 978-0-367-70165-9(hbk), ISBN 978-0-367-70205-2(pbk) ISBN 978-1-003-14487-8(ebk),</p> <p>3. <b>Shipra Mital Gupta</b>, Babita Sharma and S. K. Sharma “Liquid and Crystal Nanomaterials for Water Remediation: Fundamentals, Synthesis and Strategies for Improving TiO<sub>2</sub> Activity for Wastewater Treatment” in Liquid and Crystal Nanomaterials for Water Pollutants Remediation, eds. Uma Shanker, Manviri Rani, CRC Press, Taylor &amp; Francis Group (2022). ISBN 0367549875, 978-0-367-54987-9(hbk), 978-0-367-54990-9(pbk), 978-1-003-09148-6(ebk).</p> <p>4. <b>Shipra Mital Gupta</b>, Nikita Gupta and S. K. Sharma “Advances in Carbon based Nanomaterials” in Nanotechnology: A quick guide to Materials and Technologies, eds. Divya Bajpai Tripathy, Anjali Gupta, Arvind Kumar Jain, Anuradha Mishra and Tokeer Ahmad, Bentham Science Publishers.</p>		
No. of Conferences	National	Attended	Organized
		27	3 as member of organizing

			committee	
	International	25		
Research Guidance	Awarded	PG	M. Phil	Doctorate
		~40		Awarded 1, Submitted 1
	Undergoing			2
Research Projects	Completed	Principal Investigator of SERC Fast Track Research Project (2008-2012) titled “Synthesis and characterization of coupled semiconductor nanoparticles for photodegradation of pesticides” of Rs 19,22,800/- for a duration of 3 years		
	Undergoing	Principal Investigator of FRGS grant – yearly, since 2016 till date		
Awards & Distinctions	<ol style="list-style-type: none"> <li>1. Young Scientist Award from Department of Science &amp; Technology, Govt. of India under SERC Fast Track Scheme (2008).</li> <li>2. Visiting Scientist, National Institute of Advanced Industrial Science and Technology, Japan (Jun 2006 to Aug 2006) with Financial Award from Marubun Research Promotion Foundation, Japan.</li> <li>3. Post doctoral research as AIST Research Staff at National Institute of Advanced Industrial Science and Technology, Japan (2004 to 2006).</li> <li>4. Awarded First-Khosla Research Prize by IIT Roorkee in 2002.</li> <li>5. Topped the All-India entrance exam for M.Sc. in Chemistry at University of Roorkee (IIT Roorkee) in 1997.</li> </ol>			
Administrative Assignments Handled	<ol style="list-style-type: none"> <li>1. Member of Steering Committee of Centre for Human Values and Ethics, since July 2022.</li> <li>2. Member Board of Studies &amp; Member School Research Committee.</li> <li>3. Member of Indraprastha University Internal Quality Assurance Cell (IIQAC) 2020-24.</li> <li>4. Faculty Coordinator, Srijan Dance Club 2011-24.</li> <li>5. Member of various School level Committees from time to time: PhD Coordinator, Training &amp; Placement Coordinator, Alumni Coordinator, Time table committee, Member School Research Committee, Web Updation/ Annual Report/ Prospectus/ UFocus/ NAAC Committee, Library Committee, Store/ Purchase/ Estate Committee, Budget Committee, Research Coordination Committee, Syllabus Modification Committee, Admission Committee NST/ PhD, Practical Exam Committee NST, Brochure Committee, In-charge NST / Chemistry lab, Returning Officer for election of Students council.</li> </ol>			
Association with Professional Bodies	<ol style="list-style-type: none"> <li>1. Life Member, Indian Society of Radiation and Photochemical Sciences (ISRAPS), BARC Mumbai, India (Membership No. LM-324).</li> </ol>			

	2. Life Member, Society of Materials Chemistry (SMC), BARC Mumbai, India (Membership No. LM-986).
Any other Achievements	<ol style="list-style-type: none"><li>1. Delivered many Invited and Keynote Talks at International Conferences / venues.</li><li>2. Evaluated many PhD Thesis as External Examiner at University of Madras, Anna University, Loyola College Chennai, Ansal University.</li><li>3. Reviewer of many International Journals.</li></ol>