

## CURRICULUM VITAE

<b>Full Name</b>	<b>Dr. Goutam Kumar</b>	
<b>Designation</b>	Assistant Professor	
<b>Department</b>	Chemistry	
<b>University (Campus)</b>	HNB Garhwal University BGR Campus, Pauri Uttarakhand-246001	
<b>Mobile</b>	+919797220255	
<b>Email</b>	goutamkmmrr17@gmail.com	
<b>Educational Qualification</b>	M.Sc., B.Ed., Ph.D.	
<b>Other Achievements</b>	JRF-NET, JKSET	
<b>Teaching Experience</b>	07 Years	
<b>Research Experience</b>	08 Years	
<b>Research Interests (Specialization)</b>	Organic Synthesis Green Chemistry & Nanotechnology Chemistry of Natural Products Environmental Chemistry	
<b>Research Guidance</b>		
Ph.D.: 01 (Pursuing)		
M.Sc. Dissertation: 07 Completed and 03 (Pursuing)		
<b>Life Membership:</b> Association of Chemistry Teachers		
<b>Administrative Experience</b>		
<b>Committee</b>	<b>Session</b>	
1. ADSW, BGR Campus, Pauri	01/01/2025 to till date	
2. Editorial Member, HNBSGU Newsletter	12/02/2024 to till date	
3. Member, Career Counselling Committee, BGR campus, Pauri	2023-24 & 2024-25	
4. Member, Admission Committee for B.Sc./M.Sc. Programme, BGR Campus, Pauri	2023-24, 2024-25 & 2025-26	
5. Member, Anti Ragging Cell, BGR Campus, Pauri	2023-24	
6. Campus Coordinator, IKS, BGR Campus, Pauri	2023-24, 2024-25 & 2025-26	
7. Coordinator, Eco Club, BGR Campus, Pauri	2025-26	
8. Nodal Officer, Prerna Free Coaching Centre, BGR Campus, Pauri	2025-26	
9. Co-Coordinator, UOU, Study Centre, BGR Campus, Pauri	2024-25 & 2025-26	
10. Assistant Election Officer, Pauri Campus	2024-25	
11. Assistant Superintendent of Examination, BGR Campus, Pauri	12/2026 to till date	
12. Member, BoS, Chemistry Department, HNBSGU	2025 to till date	
<b>Publication</b>		
1. Vipul, <b>Goutam Kumar</b> and PP Badoni. Green synthesis of Zinc oxide nanoparticles using Malva parviflora leaf extract: A comprehensive study on its characterization, antioxidant, and antimicrobial efficacy. <i>Journal of Mountain Research</i> . 2025;20(2):195-206.		
2. PP Badoni, Shivani Jasrotia and <b>Goutam Kumar</b> . Green synthesis of silver nanoparticles using aqueous leaf extract of <i>Geranium nepalense</i> and their antimicrobial activities. <i>Journal of Mountain Research</i> . 2024;20(1):287-294.		
3. PP Badoni and <b>Goutam Kumar</b> . Biosynthesis of silver nanoparticles using <i>Rhus parviflora</i> leaf extract and its antimicrobial activity. <i>Journal of Mountain Research</i> . 2024;19(1):461-472.		
4. Shivani Jasrotia, Stuti Gupta, <b>Goutam Kumar</b> and PP Badoni. Synthesis and characterization of zinc oxide nanoparticles using aqueous extract of <i>Arisaema tortuosum</i> tuber for dye removal. <i>Plant Archives</i> . 2023;23(2):342-350.		
5. Shivani Jasrotia, <b>Goutam Kumar</b> , PP Badoni and Stuti Gupta. Removal of Rose Bengal dye from the aqueous medium using biologically synthesized ZnO nanoparticles. <i>Journal of Mountain Research</i> , 2023;18(1):179-187.		
6. Shah Imtiaz, Jagjeet Singh, <b>Goutam Kumar</b> , Madhvi Bhardwaj and Harish Saraswat. Structural studies		

of inclusion complexes of HP- $\beta$ -CD and cetirizine by combination of ROESY and molecular modelling methods. *Asian Journal of Chemistry*. 2022;34(12):3224-3230.

- Bharti, J.S. Jangwan, **Goutam Kumar**, Vivek Kumar and Amrishi Kumar. Abatement of organic and inorganic pollutants from drinking water by using commercial and laboratory-synthesized zinc oxide nanoparticles. *SN Applied Sciences*. 2021;3(311):1-12.
- Goutam Kumar**, P.P. Badoni, Arun K. Khajuria, Mahender Singh, Sapna Tyagi and Navneet Singh. *Cotoneaster acuminatus* leaf extract mediated synthesis, characterization and in vitro evaluation of antimicrobial activity of Zinc Oxide nanoparticles. *Oriental Journal of Chemistry*. 2020;36(6):1043-1048.
- M.C. Purohit, Mahender Singh, **Goutam Kumar** and Navneet Singh. Plant mediated green synthesis of silver nanoparticles using *Rumex obtusifolius* leaf extract and their antibacterial activity. *International Journal of Pharmaceutical Sciences and Research*. 2020;11(9):4524-4529.
- Tanveer Alam, Sapna Tyagi, **Goutam Kumar**, et al. Synthesis and biological activity of silver nanoparticles from medicinal palm tree *Bismarckia nobilis* seeds. *Asian Journal of Chemistry*. 2020;9:2229-2232.
- Anuj Kandwal, Pranjali Purohit, Arun K Khajuria, **Goutam Kumar**, MC Purohit and Niranjana Kumar Mandal. Synthesis of zinc oxide nanoparticles using leaf extract of *Ajuga parviflora* Benth. in Wall. and their characterization. *Journal of Pharmacognosy and Phytochemistry*. 2019;8(4):493-497.
- Arun K. Khajuria, N. S. Bisht, R. K. Manhas and **Goutam Kumar**. Callus mediated biosynthesis and antibacterial activities of zinc oxide nanoparticles from *Viola canescens*: an important Himalayan medicinal herb. *Springer Nature: Applied Sciences*. 2019;1(455).
- P.P. Badoni, **Goutam Kumar**, Mahender Singh, Navneet Singh, Arun K. Khajuria, Bharti and Sanjay Dutt. *Geranium wallichianum* leaf extract mediated synthesis of silver nanoparticles: characterization and its antimicrobial activity. *Asian Journal of Chemistry*. 2019;31(5): 1128-32.
- Jyoti Kundal, **Goutam Kumar**, M.C. Purohit. Application of biological active natural dye along with some synthetic mordants on wool surface. *International Journal of Advance Research in Science and Engineering*. 2018;7(2):386-394.
- Goutam Kumar**, PP Badoni and Mahender Singh. Bio-inspired synthesis of silver nanoparticles from *Cotoneaster acuminatus* leaf extract and their characterization. *International Journal of Advance Research in Science and Engineering*. 2018;7(1):135-139.
- PP Badoni, Jyoti Kundal and **Goutam Kumar**. Biosynthesis of ZnO nanoparticles using *G. nepalense* leaf extract, characterization and their antibacterial activity. *Journal of Applicable Chemistry*. 2018;7(1):12-118.
- Devendra Singh Negi, **Goutam Kumar**, Mahender Singh and Navneet Singh. Antibacterial activity of Benzimidazole derivatives: A mini review. *Research & Reviews: Journal of Chemistry*. 2017;6(3):18-28.
- Arun Kumar Khajuria, NS Bisht and **Goutam Kumar**. Synthesis of zinc oxide nanoparticles using leaf extract of *Viola canescens* Wall. ex, Roxb. and their antimicrobial activity. *Journal of Pharmacognosy and Phytochemistry*. 2017;6(5):1301-1304.
- MC Purohit, Mahender Singh, Reena Purohit and **Goutam Kumar**. Antimicrobial activity of methanolic extract of bark of *Prunus cornuta*. *International Journal of Pharmaceutical Sciences and Research*. 2017;8(8):3563-3567.
- Arun Kumar Khajuria, **Goutam Kumar** and NS Bisht. Diversity with ethnomedicinal notes on Orchids: A case study of Nagdev Forest range, Pauri Garhwal, Uttarakhand, India. *Journal of Medicinal Plants Studies*. 2017;5(1):171-174.

#### **Book Chapter**

- Gond S. and Kumar G. 'Schiff Base Metal Complexes: As Catalyst' in Emerging Trends in Catalysis, Natural Products, and Polymers. *Professional Prints, New York, USA, 2025*, Pages 89- 100.

#### **Conference/ Seminar/ Workshop/ Lecture etc.**

##### **Presentations: Regional/State**

- Presented a paper on "Plant mediated synthesis ZnO nanoparticles for Bio-applications" in "11th Uttarakhand State Science & Technology Congress 2016-17" held on 02-04/03/2017 at USCST, Vigyan Dham, Dehradun.
- Presented a paper on "Decolorization of wastewater using zinc-based nanoparticles" in "Regional Seminar on Man and Nature" on 28/11/2015 at HNB Garhwal University BGR Campus, Pauri, Uttarakhand.

##### **National**

- Presented a paper on 'Silver nanoparticles: Green synthesis, characterization and its biological applications' in National Conference on Recent Trends in Polymer and Chemical Sciences' organized by MSU, Rajasthan from 5-6/01/2024.

2. Presented a paper on "Sources and biological activities of some important natural alkaloids" in "National Conference on The Himalayas: At the Cross-Roads of Environment and Development" held on 26-27/05/2019 at Department of Geography, HNB Garhwal University BGR Campus, Pauri, Uttarakhand.
3. Presented a paper on "*Cotoneaster acuminatus* leaf extract mediated synthesis of ZnO nanoparticles" in "National Conference on Recent Advances in Chemical and Nano Sciences" held on 29-30/10/2018 at Department of Chemistry, HNB Garhwal University BGR Campus, Pauri, Uttarakhand
4. Presented a paper on "Declining enrolment in Govt. affiliated and funded schools: A Review" in "National Seminar on Decreasing Strength of Students in Government Schools: Causes & Remedies" held on 19/05/05/2018 at Department of Mathematics, HNB Garhwal University BGR Campus, Pauri, Uttarakhand.
5. Presented a paper on "Synthesis of *A. tortuosum* leaf extract: ZnO nanoparticles, characterization and their antifungal activity" in "National Seminar on Recent Advances in Science, Technology and Management" held on 29-30/04/2017 at Phonics Group of Institutions, Roorkee.

### International

1. Presented a paper on "Phytoremediation of heavy metals from wastewater: Sustainable Approach" in International Conference on Innovations in Physical, Chemicals & Biological Sciences for Sustainable Development (IPCBSSD-2026) organized by Department of Chemistry, Guru Nanak College of Science, Ballarpur from 02-03/02/2026.
2. Presented a paper on 'Metal based nanoparticles: Green synthesis, characterization and their antimicrobial activities' in International Conference on Advancements in Science, Engineering & Technology jointly organized by Vidya Vihar Institute of Technology, Bihar and Global Conference Hub, Tamil Naidu from 27-28/09/2024.
3. Presented a paper on 'Green synthesis of nanomaterials for various applications' in Ayurdhan 2024 - An International Conference on Harmonizing Ayurveda, Technology and Innovation for a Healthier Future at University of Patanjali, Haridwar from 27-29/10/2024.
4. Presented a paper on "Green Synthesis, characterization and investigation of biological applications of silver nanoparticles" in International Conference on Recent Advances & Innovations in Applied Sciences on 12/08/2023 organized by IITYam India Academy, Delhi in collaboration with HNB PG College, Khatima & Govt. PG College Bazpur, UK.
5. Presented a paper on "Bioengineering of silver nanoparticles from plant extract" in International Conference on Advancement in Engineering Sciences" on 28-29/09/2019 at School of Electronics & Communication Engineering, SMVD University, Katra (J&K).
6. Presented a paper on "*Pyracantha crenulata* leaf extract assisted synthesis of silver nanoparticles and its antimicrobial activity" in "International Conference on Recent Advances in Interdisciplinary Sciences" held on 11-12/01/2019 at Department of Electronics, University of Jammu, Jammu.
7. Presented a paper on "Ecofriendly approach for the synthesis of silver nanoparticles from *Arisaema tortuosum* leaf extract and their antifungal activity" in the "International Seminar on Environmental Degradation-Causes & Consequences" held on 25/02/2018 at Panchayat Bhawan, Moradabad.
8. Presented a paper on "Bio-inspired synthesis of silver nanoparticles from *Cotoneaster acuminatus* leaf extract and their characterization" in "International Conference on New Horizons in Science, Engineering, Management and Humanities" held on 16/02/2018 at IIMT College of Engineering, Greater Noida.
9. Presented a paper on "Application of biological active natural dye along with some synthetic mordants on wool surface" in "International Conference on Applied Science, Technology and Management" held on 10/02/2018 at MCCIA, Senapati Bapat Road, Pune.
10. Presented a paper on "*P. crenulata* leaf extract mediated synthesis of ZnO nanoparticles and their antibacterial activity" in "International Conference on Advances in Agriculture and Biodiversity Conservation for Sustainable Development" held on 27-28/10/2017 at Brahaspati Bhawan, CCS University, Meerut.

### Participations in Conference/ Seminar/ Workshop/ Lecture etc.

1. Participated in one day workshop on "Sanjeevani: A Health Awareness Outreach cum Workshop" organized by HNB Garhwal University at Sanskriti Bhawan (Auditorium), Pauri on 21/09/2023.
2. Participated in Webinar on "Career Prospects in Chemistry" organized by HNBSGU SRT Campus, Tehri on 24/04/2023.
3. Participated in Webinar Series on "Applications of Advanced Nanocomposites" organized by Alliance University, Bangalore from 15-17/03/2023.
4. Participated in "National Online Awareness Program under National Intellectual Property Awareness Mission" organized by Intellectual Property Office, India on 10/02/2023.
5. Participated in "International Webinar on Write Your Thesis Using Mendeley-Tactics to manage references

for Researcher” at Hybrid Mode/Seminar Hall, Block – A, AUMP on 06/02/2023.

6. Participated in “National Online Workshop on Chemdraw Software Learning” organized by Department of Chemistry, Aggarwal College Ballabgarh on 17/07/2022.
7. Participated in “One Week Online Faculty Development Program on Modern Innovations in Chemical Engineering & Technology” jointly organized by Department of Chemical Engineering and Department of Food Technology, Harcourt Butler Technical University, Kanpur during 9-13/08/2021.
8. Participated in “National Webinar on Navigating your Journey from Research to Patent & How Patent and Publication Differ” organized by Society of Pharmaceutical Sciences and Research (SPSR) on 18/04/2021.
9. Participated in “International Webinar on “Water Crisis in the Himalayan Region: Addressing and Tackling the Issue” organized by IQAC, Government Degree College, Chinyalisaur (Uttarkashi) on 30/08/2020.
10. Participated in “Online Workshop on XRD Theory, Applications and Data Analysis” on 6-7/08/2020 organized by Malvern Panalytical & Kumaraguru College of Engineering, India.
11. Participated in “Short Term Course on Catalysis” on 10-14/08/2019 at Department of Chemical Engineering, NIT Jalandhar.
12. Participated in “Jal Sanrakshan, Jal Gunvatta avum Swasthya Swachhta” on 30-31/03/2019 at HNB Garhwal University BGR Campus, Pauri, Uttarakhand.
13. Participated in “One Day Workshop on Intellectual Property Rights” on 26/03/2019 at HNB Garhwal University BGR Campus, Pauri, Uttarakhand.
14. Participated in ‘International Women’s Day’ on 08/03/2019 at HNB Garhwal University BGR Campus, Pauri, Uttarakhand.
15. Participated in “Science Popularization Lecture on Application of Radioisotopes for Societal Benefits” on 22/04/2018 at HNB Garhwal University BGR Campus, Pauri, Uttarakhand.
16. Participated in “National Seminar on Uch Shiksha Aur Mukh Vishawvidhalya Ki Sambhawnaye” on 02/12/2014 at HNB Garhwal University BGR Campus, Pauri, Uttarakhand.

#### **Organized Conference/ Seminar/Workshop/Lecture/Webinar etc.**

1. One day webinar on ‘Intellectual Property Rights’ at BGR campus, Pauri on 23/02/2026.
2. Science Popularization Lecture on ‘Ozone Day-2025’ at BGR Campus, Pauri on 16/09/2025.
3. Invited talk on ‘NEP-2020 w.r.t. Formal and Informal Education’ at BGR Campus, Pauri on 23/08/2025.
4. One day workshop on ‘Research and Methodology’ at Chemistry Department, Pauri Campus on 03/08/2024.
5. One day workshop on ‘Research and its Scope’ at Chemistry Department, Pauri Campus on 30/07/2024.
6. One day workshop cum Public Interaction Programme on ‘Water Conservation and Local Groundwater Issues’ at BGR Campus, Pauri on 21/12/2023.
7. One day workshop on “मूल्य आधारित सेवा द्वारा समृद्ध समाज की पुनर्स्थापना” at BGR Campus, Pauri on 27/10/2023.
8. Co-organized one day seminar on “Global Science for Global Wellbeing” at BGR Campus, Pauri on 27/10/2023 on 02/03/2023.

#### **Invited Talk/Lecture**

1. Delivered an invited talk on ‘Bioremediation of Contaminated Water using Plants’ in Refresher Course at RIE, Mysore on 05/12/2025.
2. Delivered an invited talk on ‘Understanding the Impact of Chemicals on our Ecosystem’ in Refresher Course at RIE, Mysore on 04/12/2025.
3. Delivered an invited talk on Career and Guidance’ at GIC Paidul, Pauri on 09/02/2024.
4. Delivered an invited talk on ‘Fresh Water Resources of Himalaya’ in one day workshop organized by PMU, UCOST & UJS, Dehradun in collaboration with Department of Chemistry, BGR Campus, Pauri at Pauri on 23/03/2023.

#### **Faculty Development Programme**

1. Offline attended Faculty Induction Programme at MMTTC, Patiala University, Patiala from 08/01/2025-05/02/2025.
2. Online attended Five-Day International Online Faculty Development Programme (FDP) on “Sustainable Materials and Advanced Research Technologies (SMART-2025) organized by sacred Heart College, Tiruputtar from 18-23/09/2025.
3. Online attended Faculty Development Program on “Recent Advancements in Science and Technology” organized by Alliance University, Bangalore from 06-10/03/2023.
4. Online attended Faculty Development Program on “Research Method and Research Design” organized by Ramanujan College, University of Delhi, Delhi from 14-20/08/2023.