



# GOVERNMENT G.N.A. P.G. COLLEGE, BHATAPARA (C.G.)

(Affiliated to Pt. Ravishankar Shukla University Raipur)

## Faculty Details

<b>Title</b> Dr.	<b>First Name</b> Preeti	<b>Last Name</b> Soni	<b>Photograph</b>	
<b>Designation</b>	Assistant Professor - Chemistry			
<b>Address</b>	G2R1R3 Shanti Nagar, Bilaspur (C.G.)			
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### Educational Qualification

<b>Degree</b>	<b>Institution</b>	<b>Year</b>
Ph.D.	Guru Ghasidas University Bilaspur (C.G.)	2001
M.Sc.	Guru Ghasidas University Bilaspur (C.G.)	1997
B.Sc.	Guru Ghasidas University Bilaspur (C.G.)	1995

### Career Profile

Dr. Preeti Soni is working as an Assistant Professor in the Department of Chemistry. Govt. G.N.A. P.G. College, Bhatapara (C.G.). She has about 12 years of teaching experience. She received her M.Sc. degree in Chemistry from Guru Ghasidas Central University, Bilaspur (C.G.). She received Ph.D degree in Chemistry from Guru Ghasidas Central University, Bilaspur (C.G.) She has published more than 15 research papers in refereed international, national journals and 10 research papers in the proceedings of various international conferences. She has received two best paper awards for her research paper in an international conference. Her areas of research include Environmental Chemistry & Organic Chemistry. She has been Editor of a book named "Safarnama". Chief Editor in a book of research named "Multidisciplinary Approach in Research" (Vol. 25). She has also registered as research guide in Pt. Ravi Shankar Shukla University, Raipur. She has got 5 patents in different fields. She has reviewed 15 manuscripts for International Journal Of Science & Research. She is an active member of 'ACT and editorial member in Edwin group of journals

### Administrative Assignments

<b>S.N.</b>	<b>Name of the Committee</b>	<b>Responsibility</b>	
1	Departmental Committee	Dean- Science	
2	Panchmukhi Vikas Karyakram Committee	Coordinator	
3	Purchasing Committee	Member	
4	A.F. Committee	Member	
5	Teacher Parent Committee	Member	
6	Time Table Committee	Member	

7	RUSA Committee	Member	
8	Academic Audit Committee	Member	
9	Ex-Student Committee	Member	
10	Guest Lecturer Selection Committee	Member	

### Areas of Interest / Specialization

Environmental Chemistry / Organic Chemistry

### Subjects Taught

Chemistry

### Research Guidance

Registered as a Research Guide in Pt. Ravishankar Sukla University, Raipur (C.G.)

### Publications Profile

S.No.	Title	Name of Journal	Author	Vol/Issue	Date
1.	"Studies on the effect of micro-nutrients on nutrient uptake and amino-acid contents in Soybean plant".	Research Journal of Chemistry and Environment, Indore (M.P.),	Preeti Soni, Salil Udaipure, Lalit Kumar Thetwar	Vol. 2 pp. 51-58.	, June 1998
2.	"Amelioration of acidic soil by fly ash for trace elements uptake and crop yield and increased protein content in Chick Pea ( Cicer arietinum )".	Asian Journal of Chemistry, Sahibabad ( Ghaziabad ),	Preeti Soni, Ajita Chakrabarty, L.K. Thetwar	Vol. 12, No., pp. 698-702.	3.July October 2000
3.	Water Resource Management in Chhattisgarh State of India : Strategies for Sustainable Development"	Journal of Global Resources	Preeti Soni	, Vol. 4, ISSN: 2395-3160 (Print), 2455-2445 (Online),	January 2017, pp. 63-70.
4.	"Impulsive Excitation Of Mechanoluminescence In Irradiated Sr(Vo3)2 : Tb Phosphors"	Naveen Shodh Sansar, Neemuch ( M.P.),	Dr. Preeti Soni, Vikas Gulhare, R. S. Kher., S. J. Dhole	Vol. I, Issue XVIII,	April to June 2017, pp. 39-42.
5.	Determination of Arsenic, Antimony, Lead & Physiological parameters in ground water of Bhatapara (C.G.)	International Journal of Science & Research	Dr. Preeti Soni	ISSN (Online): 2319-7064	Vol.10 Issue 06 june,2021 pp 1687-1688
6.	Phytochemical Analysis of Heliotropium Indicum for its Medicinal Properties	International Journal of Science & Research	Dr. Preeti Soni, Shri Jitendra Yadav	ISSN (Online): 2319-7064	Vol.11 Issue 12 Dec,2022
7.	Environment And Its Pillars of Sustainability	International Journal of Science & Research	Dr. Preeti Soni, Dr. Vikas Gulhare	ISSN (Online): 2319-7064	Vol.13 Issue 03 March 2024 pp -
8.	Phytochemical analysis of Ocimum Tenuiflorum (Tulsi) : A Review	International Journal of Science & Research	Dr. Preeti Soni	ISSN (Online): 2319-7064	Vol.14 Issue 06 june 2025 pp- 1363-1364
9.	Food industrial waste-based calcium oxide nanoparticles: a sustainable material from eggshells for futuristic applications	REVISTAMATERIA <a href="https://doi.org/10.1590/1517-7076-RMAT-2025-0618">https://doi.org/10.1590/1517-7076-RMAT-2025-0618</a>	Dr. Preeti Soni (Author-4 <sup>th</sup> )	ISSN : 1517-7076	Vol. 30 Articles e202250618, 2025

### Chapters in Books:

S.No	Title	Journal/Publication	Author	Vol./Issue	Date
1.	"A Review : Environment and Environmental Movements".Sustainable Development : Theory, Praxis and Solution	Asian Press Books, Kolkata	Dr. Preeti Soni	ISBN: 978-81-950855-4-5, pp. 38-42.	1st Editi March 2021
2.	Studies of physiological parameters of different soil samples of bhatapara	Organized by govt. bilasa girls college, Bilaspur (c.g.)	Dr. Preeti Soni		
3.	Zindagi ka safarnama	Evincepublishing	Co- editor		
4.	Multidisciplinary Approach in Research Pear Reviewed book	Red Shine Publication	Chief Editor	ISBN: 978-91-89764-08-8	May-2023
5.	Edwin group of generals	Edwin group of generals	Editorial Member		1 <sup>st</sup> Nov. 2023
6.	Basics of Organic Chemistry	Infinite Publication	Dr. Preeti Soni	ISBN: 97881964364-14	July-2023
7.	Environmental Organic Chemistry	Infinite Publication	Dr. Preeti Soni	ISBN: 9788196-581206	Sep. 2023
8.	Bioorganic & Medicinal Chemistry	AGPH Books	Dr. Preeti Soni	ISBN: 9788197-747625	Aug, 2024
9.	Bridging Disciplines: Innovations in Materials Science, Environmental Sustainability and Societal Studies	Aryabhat Publication House	Dr. Preeti Soni (Academic Research and Innovation: A Catalyst for Societal Advancement) Book Chapter	ISBN: 978-93-95463-82-9	Oct. 2025
10.	A Text Book of Environmental And Pollution Science	RK Publication	Dr. Preeti soni	ISBN:	Aug. 2025

### Conference Organization/ Presentations (in the last five years)

S.No.	Topic	Organized By	Date	Remarks	Level
1.	Advances In Chemistry Research	Govt. Arts, Commerce And Science College Kota Bilaspur	18-20 Nov. 2001	Presented	All India
2.	National Interdisciplinary Seminar	Govt. T.C.L PG College, Janjgir	02-03 March 2006	Participated	National
3.	'Techno-Economic Evaluation Of Fermented Biobased Products : Vision 2020'	GGU Bilaspur	28-29 Jan. 2008	Participated	National
4.	6th Chhattisgarh Young Scientist Congress In Chemistry	GGU Bilaspur	28-29 Feb. 2008	Participated	University
5.	'Political Trends In Global Warming And Carbon Credit'	Govt. G.N.A.PG.College, Bhatapara	12-13 Jan 2011	Presented	National
6.	'New Trends Effect On E-Commerce, Internet Banking And Business Sectors'	Govt. G.N.A.PG.College, Bhatapara	12-13 Jan 2011	Participated	National
7.	Environment, Ecology & Remote Sensing	Govt. D.K. PG College, Balodabazar	11-12 Feb. 2011	Presented	National
8.	Emerging Trends In Chemical Sciences, ('Environmental Pollution And Its Hazardous Impacts On Soil, Water, Plant & Fishes Around Hasdeo River With Special Reference To Pb And Cd Toxicity')	Kalyan PG College Bhilai Nagar	18-19 Nov 2011	Presented	National
9.	'Chemistry In Our Lives'	Govt. E Raghvendra Rao PG Sc. College, Bilaspur	01-02- Feb. 2013	Poster Presentation	National
10.	Microbial Diversity : Exploration, Conservation & Application'	Govt. E Raghvendra Rao PG Sc. College, Bilaspur	16-17 Feb. 2013	Participation	National
11.	'Sustainable Development Of Environment : A Multi-Disciplinary Approach'('Water Management And Environment')	Govt. G.N.A.PG.College, Bhatapara	26-27 Feb. 2013	Presented	National
12.	Chemistry Teachers Training Workshop	Pt. R.S.S.U Raipur	06-08 Oct. 2015	Participated	University
13.	Environment : Its Issues' ('CO <sub>2</sub> Emission : Cause Of Pollution')	Govt. Pataleshwar College Masturi	02 Dec. 2015	Presented	National
14.	'Sustainable Routes Out Of Poverty - Past Experiences Future Challenges' ('Poverty Eradication : A Challenge')	Govt. G.N.A.PG.College, Bhatapara	26-27 Feb. 2016	Presented	National
15.	'Enhancing 21 <sup>st</sup> Century Competencies'	Govt. T.C.L PG College, Janjgir	06-07 Jan. 2017	Participated	National
16.	Relevance Of History, Challenges And Conservation Of Archaeological Heritage	Govt. D.B. Girls College (Autonomous) Raipur	15 Feb. 2017	Participated	National Workshop
17.	RUSA Workshop	Govt. Shahid Veer Narayan Singh College, Bilaigarh	11 March 2017	Invited Talk	State Level
18.	'Water, Energy And Environment For Sustainable Development Goals' ('Comparative Study Of Physico-Chemical Parameters Of Water Near Cement Plants Of Chhattisgarh')	Dr. C.V. Raman University Kota Bilaspur	25-26 Sep 2018	Presented	International Symposia
19.	'Engineering, Science And Technology : Ideas, Innovations And Initiatives' ('Environmental And Health Hazards Of Fast Food Consumption')	Chouksey Eng. College Bilaspur	26-27 Oct. 2018	Presented	International Conference Techno-A-Tech 2018
20.	"Online Courses Through SWAYAM : Inclusiveness Of All In Higher Education"	Atal Bihari Bajpai University Bilaspur	01 Oct. 2019	Participated	One Day State Level Workshop
21.	"Recent Trends In Environmental Issues"Review Of Recent Trends In Fly Ash Application.	D.P. Vipra PG College, Bilaspur	14 Oct. 2019	Presented	National
22.	Advance Materials For Sustainable Industrial And Social Applications NSAMSISS – 2020 (EFFECT OF CEMENT DUST POLLUTION ON WATER BODIES AROUND BHATAPARA C.G.	Govt. Pt. Shyamacharan Shukla College,Dharsiwa Raipur	17-18/01/2020	Presented	National
23.	Materials For Environment (ICME – 2020) (UTILISATION OF FLY ASH TO CONTROL ENVIRONMENTAL POLLUTION	Govt, V.Y.T College,Durg C.G.	24-25 /01/2020	Presented	International Conference
24.	56 <sup>th</sup> Annual Convention Of Chemists 2019 Recent Trends In Chemical Sciences, (	PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR	14-16/11/2019	PRESENTED	INTERNATIONAL CONFERENCE

	Assessment Of Industrial Pollutants In Soil Of Chhattisgarh.)	C.G.			
25.	Operation And Maintenance Of Opto Analytical Laboratory Equipments	Govt. D.B.GIRLS PG (AUTONOMOUS) COLLEGE,RAIPUR (C.G.)	6-10 Jan 2020	Participated	National Workshop
26.	Therapeutics Studies Of Phytochemical Components Of Ocimum Tenuiflorum (Holy Basil)	Govt. D.B.GIRLS PG (AUTONOMOUS) COLLEGE,RAIPUR (C.G.)	17-18 Oct. 2024	Presented	International Seminar
27.	Fabricated Nanoparticles And Organic Matter : Properties And Applications	National PG College Lucknow	24-26 Oct. 2024	Presented	International Conference
28.	NEP 2020 In Viksit Bharat @ 2047	Guru Ghasi Das University Bilaspur (C.G.)	9-10 Nov. 2024	Presented	National Seminar

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

**Nil**

#### Awards and Distinctions

Dr. Preeti Soni, Assistant Professor, Govt. G.N.A P.G. College, Bhatapara, Chhattisgarh has awarded the Best Poster Presenter for the research paper entitled "Dynamics of Fly ash Application: in Terms of Resistivity (A Review)" in the three day International Virtual Conference on "Chemistry - Frontiers & Challenges (ICCF-2022)" organized by PG & Research Department of Chemistry PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu, India from 5th-7th January 2022.

#### Association With Professional Bodies

MoU with Dr. C.V. Raman University, Kota, Bilaspur (C.G.)

#### Other Activities

##### Patents-

1. Implementation Of Artificial Intelligence Enabled Design, Synthesis And Process Optimization Of Chemical Products For Industry 4.0 (8<sup>th</sup> Author)- Completed Date- 05-05-23
2. A Novel Adsorbent Material For The Removal Of Heavy Metals Form Industrial Waste Water Using Chitosan & Activated Carbon Nanoparticles (2<sup>nd</sup> Author)- In Process Date- 18-08-23
3. Method And Composition For Treating Swelling Using Ethanolic Extract Of Heliotropium Indicum Linn (1st Author) Date- 13-10-23
4. Canada Copyright- Title- System For The Controlled Assembly Of Nanomaterials Using Directed Self Assembly Techniques- Reg. No. 1229544 (07 Jan. 2025)
5. Machine Design Patent (17 Jan. 2025)
6. Machine Design Patent Quad Magnetic Axial Drive System (2026) Design no. 429756-001 (16 Jan. 2026)

#### Participation in Orientation Courses/ Refresher Courses/ Workshops/ FDPS etc.

S.No.	Topic	Institute	Date	Level
1.	Orientation programme	Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)	11/05/2015 to 06/06/2015	Grade - A
2.	Refresher course	Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)	11/06/2018 to 30/06/2018	Grade - A
3.	Swayam Arpit Online Refresher course	Sri Guru Tegh Bahadur Khalse College, University of Delhi	16/01/2020 to 16/02/2020	Grade - B
4.	Refresher course	Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)	15/02/2021 to 27/02/2021	Grade - A

#### Seminars/ Conferences Attended:

S.No	Topic	Institute	Date	Remarks	Level
1.	E-Quiz On Self Awareness	Nss,Shri Lemdeo Patil	April, May	Participated	Quiz

	About Covid-19	Mahavidyalaya,Mandhal Nagpur	2020			
2.	Spitting Kills Campaign	Acf-Alamelu Charitable Foundation	Apr-May 2020	Participated	Campaign	
3.	Sustainable Chemistry Iwsc-2021	Homi Bhabha Centre For Science Education (Tiffr) Mumbai	18 March 2021	Presented	International	
4.	Covid-19 Pandemic Awareness Quiz	Ram Sewak Singh Mahila College,Sitamarhi	May 2020	Participated	Quiz	
5.	Covid-19 Awareness Quiz	Institute Of Engineering & Technology	23/05/2020	Participated	Quiz	
6.	New Horizons In Sustainable Polymers,Organic Synthesis,Green Chemistry And Laboratory Safety	Lt.Karamveer Dr. P.R. Ghogrey Science College Dhule	23-24 May 2020	Expert Talk	National	
7.	Covid-19 Online Awareness Quiz	Maharajah's College Vizianagaram,Andhra Pradesh	28/05/2020	Participated	Quiz	
8.	Covid-19 Pandemic General Awareness Quiz	New Arts,Commerce And Science College,Ahmedanagar	28/05/2020	Participated	Quiz	
9.	Physical And Mental Hygiene: A Practical Approach Towards Pandemic Prevention	Govt. E.V.P.G. College Korba (C.G.O)	28/05/2020	Participated	National	
10.	Quality In Teaching,Learning And Evaluation: A Need For Academic Excellence	St. Aloysis College,Jabalpur (M.P.)	29-30 May 2020	Participated	National	
11.	Laboratory Safety Practices	Siescollege Of Arts,Science & Commerce,Sion West,Mumbai	31 May 2020	Participated	Webinar	
12.	Post Covid Scenario And Atamnirbhar Bharat	J.Z.Shah & H.P.Desai Commerce College,Amroli	03/06/2020	Participated	National	
13.	National Level Quiz Cum Awareness Programme On Covid-19	Govt. Agrasen College,Bilha	03-05/06/2020	Participated	National	
14.	Analytical And Diagnostic Tools In Chemical And Life Sciences	Andhra University,Vishakhapatnam	05-06/06/2020	Participated	National (Fdp)	
15.	Environmental Awareness Quiz	Dr. Ngp Of Technolo0gy Coimbatore	05/06/2020	Participated	Quiz	
16.	Online Chemistry Quiz	Shri Shivaji Science And Arts College,Chikhli,Buldana	06/06/2020	Participated	Quiz	
17.	Post Covid-19 World Environment:Prospects And Challenges For Sustainable Development.	Govt. V.Y.T. Pg Autonomous College,Durg (C.G.)	5-7/06/2020	Participated	International	
18.	How To Get Fastest Promotion Highest Increment	J.Z.Shah & H.P.Desai Commerce College,Amroli	07/06/2020	Participated	National	
19.	Material Science (Iwms-2020)	Kamla Nehru Mahavidyalaya,Nagpur	09/06/2020	Participated	International	
20.	Virtual Faculty Development Program On Recent Trends In Advanced Chemistry (E-Fdp-Rtac2020)	University Of Petroleum And Energy Studies,Dehradun	8-13/06/2020	Participated	Fdp	
21.	Emerging Challenges And Oppurtunities On Higher Education Due To Covid-19 Pandemic	Govt. Digvijay Autonomous Pg College, Rajnandgaon	13/06/2020	Participated	International	
22.	Environmental Awareness-Aqua Trivia	Govt. Dr. W.W. Patakar Girls Pg College, Durg (C.G.)	11-15/06/2020	Participated	Quiz	
23.	Drug Discovery, Development And Applications. (Journey Of Fly-Ash: From Waste To Best.)	Karamveer Bhauraao Patil College, Vashi Navi Mumbai	15-16/06/2020	Presented	International	
24.	Drug Discovery, Development And Applications. (Journey Of Fly-Ash: From Waste To Best.)	Karamveer Bhauraao Patil College, Vashi Navi Mumbai	15-16/06/2020	Participated	International	
25.	Emerging Trends In Chemistry Education And Research (Etcer)	Wilson's College, Mumbai	25-26/06/2020	Attended	International	
26.	How To Get A Copyright: A Step By Step Process	Prestige Institute Of Management And Research,Indore (MP)	29/06/2020	Attended	National	
27.	Breaking Barriers In Science	Kamla Nehru Mahavidyalay, Nagpur	14 Feb 2023	Participated	International Webinar	

28.	Current Trends In Green Chemistry	Bhatter College, Dantan	16 Sept. 2024	Participated	International Seminar	
29.	Online Workshop On Posh	Tech Trainers And Testers Pune	13 Sept. 2024	Participated	Workshop	
30.	Six Days FDP	Smart And Sustainable Materials	21-26 July 2025	Participated	FDP	
31.	Five Days FDP	Chalk To Click	13-17 Oct. 2025	Participated	FDP	
32.	International Online Workshop	The Ethical Toolkit For Scholars	06 Aug 2025	Participated	International Workshop	

### Programmes Organized and Conducted:

S.no.	Topic	Institute	Date	Remarks
1.	National Higher Education Campaign Sponsored 'Maintenance and Reporting of Basic Data'	Govt. G.N.A.PG.College Bhatpara	02/03/2016	Organized as convener
2.	Chemistry of Drug Metabolism National Workshop	Govt. G.N.A.PG.College Bhatpara	05-06 /08/ 2016	Organized as convener
3.	(UGC - 12 <sup>th</sup> Plan) Sponsored 'Human Rights and Duties' workshop	Govt. G.N.A.PG.College Bhatpara	09/03/2017	Organized as organizing secretary
4.	(UGC - 12 <sup>th</sup> Plan) Sponsored 'Instrumentation and Maintenance of Equipments' workshop	Govt. G.N.A.PG.College Bhatpara	21/03/2017	Organized as convener
5.	(RUSA) Sponsored 'Quality Enhancement in Higher Education'	Govt. G.N.A.PG.College Bhatpara	03/08/2017	Organized as convener
6.	Human Periodic Table Display on playground	Govt. G.N.A.PG.College Bhatpara	30/09/2022	Guidance
7.	Value added course on "Chemistry in Daily life"	Govt. G.N.A.PG.College Bhatpara	12/01/2023 to 31/01/2023	Course co-ordinator