FACULTY PROFILE

Name: Dr. Piyush Gupta
Associate Professor, Department of Chemistry
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Area or Subject: Chemistry
Affiliation: SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar-201204 U.P.

Professional Qualification:

- Awarded Ph.D. in Chemistry in 2007 from Dr. B. R. Ambedkar University, Agra
- M.Sc. (Organic Chemistry) in 2000 with 1st Division from Dr. B.R. Ambedkar University, Agra
- B.Sc. in 1998 with 1st Division from Dr. B.R. Ambedkar University, Agra
- Intermediate in 1995 with 1st Division from U.P. Board
- High School in 1993 with 1st Division from U.P. Board

Area(s) of Specialization:

Development of dyeing techniques for dyeing of various fibres, Natural product chemistry, Environmental and Analytical Chemistry (water and soil pollution), Environmental pollution monitoring and abatement/mitigation, Waste management, Wastewater treatment

Publications (Journals and Conferences)

- Sharma, V., Dash, S., and **Gupta, P.** (2024). Comprehensive review of fly ash: Environmental impact and applications. Environmental Quality Management, 34(2), e22338. **[SCOPUS and WoS]**
- Singh, B. P., Samanta, P., Choudhury, M., **Gupta, P.**, Chadha, U., and Eticha, T. K. (2024). Physicochemical and heavy metal pollution level in Hindon River ecosystem: An implication to public health risk assessment. Environmental Quality Management. **[SCOPUS and WoS]**
- Nagpal, G., Kaushik, A., **Gupta, P.**, Masri, M. N., Yahya, M. Z. A., and Diantoro, M. (2024). Effective removal of Cr (VI) ions from aqueous solution using low-cost adsorbents (orange mesocarp, Bengal gram husk, and Khangar): equilibrium, kinetic, and thermodynamic study. Biomass Conversion and Biorefinery, 14(18), 23045-23058. **[SCIE and SCOPUS]**
- Rana, N., **Gupta, P.**, Singh, H., and Nagarajan, K. (2024). Role of bioactive compounds, novel drug delivery systems, and polyherbal formulations in the management of rheumatoid arthritis. Combinatorial Chemistry and High Throughput Screening, 27(3), 353-385. **[SCIE and SCOPUS]**
- Singh, B. P., Choudhury, M., **Gupta, P.**, Chadha, U., and Zewude, D. (2024). Physicochemical and biological characteristics of River Hindon at Galheta station from 2009 to 2020. Environmental Quality Management, 33(3), 331-344. **[SCOPUS and WoS]**
- Rana, N., **Gupta, P.**, Singh, V., and Ali, M. (2023). Investigating antiarthritic potential of polyherbal emulgel. Journal of Ayurveda and Integrative Medicine, 14(6), 100828. **[SCOPUS and WoS]**
- Dash, S., **Gupta, P.**, Mustakim, S. M., and Mohanty, I. (2023). Influence of binders, mix proportions, and fabrication method on the characteristics of fly ash aggregate. Advances in Civil and Architectural Engineering, 14(27), 67-79. **[SCOPUS and WoS]**
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- Dash, S., Panda, L., Mohanty, I., and **Gupta, P.** (2022). Comparative feasibility analysis of fly ash bricks, clay bricks and fly ash incorporated clay bricks. Magazine of Civil Engineering, 115(7), 11502. **[SCOPUS and**

WoS]

- S Dash, I Mohanty, **Gupta, P.** (2022). Durability and water absorption properties of fly ash based pervious concrete: A Case Study. Significances of Bioengineering and Biosciences, 5 (4), 528-537.
- **Gupta, P**., and Gupta, N. (2022). Potential role of biochar in water treatment. Desalination and water treatment, 251, 79-104. **[SCIE and SCOPUS]**
- **Gupta, P**., Nagpal, G., and Gupta, N. (2021). Fly ash-based geopolymers: an emerging sustainable solution for heavy metal remediation from aqueous medium. Beni-Suef university journal of basic and applied sciences, 10(89), 1-29. **[SCOPUS and WoS]**
- **Gupta, P.** (2021). Plastic waste management, a concern for community. The holistic approach to environment, 11(2), 49-66. **[SCOPUS]**
- **Gupta, P.** (2015). Adverse Impacts of changing climatic conditions on the environment due to increasing pollution. International journal of life sciences, 3(4), 403-408.
- **Gupta, P.**, and Jain, S. (2015). Characterization and biological activity of metal complexes of thiazolines. International journal of advanced research in engineering technology and sciences, 2(10), 8-13.
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- **Gupta, P.**, and Jain, S. (2015). Analysis of some transition metal complexes of biologically active ligands. International journal of education and science research review, 2(3), 96-98.
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- **Gupta, P.**, and Varshney, P. (2013). Physicochemical properties of drinking water in some areas of Modinagar, Ghaziabad (U.P.). International journal of engineering and science research, 3(6), 281-283.
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- Yadav, S., **Gupta, P.**, Vats, P., and Singh, R.P. (2011). Use of pyroaurite type sorbent, activated carbon and flyash in reducing COD of domestic wastewater. Enpro Journal, 1(1), 30-36.
- Gade, J., Jain, B., Rawat, R., Sharma, P.P., and **Gupta, P.** (2022). An effective nanoparticles for drug delivery system. Materials Today: Proceedings, 51(1), A1-A7. **[SCOPUS and WoS]**
- **Gupta, P.** (2014). Various approaches to environmental protection for sustainable development. National Conference on New Approach in Chemical Sciences and Advancement in Renewable Energy (NCNACSAR-2014) held at SRM University, NCR Campus, Modinagar, India, April 4- 5, 2014, pp. 132-137.
- **Gupta, P.**, and Gupta, J. (2013). Multidisciplinary aspects of computer science in biomedical engineering, 2nd International Conference on Recent Trends in Computing (ICRTC-2013) heldat SRM University, NCR Campus, Modinagar, India, October 4-5, 2013, pp. 8-12.
- **Gupta, P.**, Gupta, S., Suman, R., Gupta, R., Pathak, B., and Singh, R.P. (2005). Elimination of Hg(II) from aqueous solution using mesoporous sorbent, ceralite, activated carbon, goethite and rica husk. Special Issue, NSE-14, Environmental Geochemistry, 8(1and2), Osmania University, Hyderabad, June 5-7, 2005, pp. 335-339.
- Gupta, R., Suman, R., **Gupta, P.**, Singh, Y., Gupta, S., and Singh, R.P. (2005). Removal of Cu(II), Ni(II) and Zn(II) ions from aqueous solutions using modified silica gel, Special Issue, NSE-14, Environmental Geochemistry, 8(1and2), Osmania University, Hyderabad, June 5-7, 2005, pp. 231-236.
- Pathak, B., Suman, R., **Gupta, P.**, Gupta, R., Nanda, D.R., and Singh, R.P. (2005). Development of a variable stirring rate system for a better performance of an anaerobic sequencing batch reactor treating low-strength waste water. Special Issue, NSE-14, Environmental Geochemistry, 8(1and2), Osmania University, Hyderabad, June 5-7, 2005, pp. 250-255.
- Singh, R.P., **Gupta, P.**, Pathak, B., Suman, R., Gupta, R., and Gupta, S. (2004). Preparation and Characterization of a pyroaurite type composite material for the removal of mercury ions from water, International Conference on Recent Advances in Composite Materials (ICRACM-2004), Banaras Hindu University, Varanasi (India), December 17-19, 2004, pp. 555-558.
- Singh, R.P., **Gupta, P.**, Chauhan, M.S., Pathak, B., Singh, A., Suman, R., and Gupta, R. (2004). Removal of Cd(II) from aqueous solution using pyroaurite type sorbent, ceralite, activatedcarbon, goethite and rice husk. Thirteenth National Symposium on Environment (NSE-13), North-Eastern Hill University, Nehu Campus, Shillong (Meghalaya), June 5-7, 2004, pp. 306- 311.
- Singh, R.P., Pathak, B., **Gupta, P.**, Chauhan, M.S., Singh, A., and Nanda, D.R. (2004). Comparison of COD removing potentials of chitosanized carbon, activated carbon and fly ash. Thirteenth National Symposium on Environment (NSE-13), North-Eastern Hill University, NehuCampus, Shillong (Meghalaya), June 5-7, 2004,

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- Singh, R.P., Pal, R.K.S., **Gupta, P.**, Gupta, S., and Gupta, R. (2003). Removal of metals from contaminated soils using edta incorporating resin trapping techniques. National Symposium on Biochemical Sciences: Health and Environmental Aspects (BSHEA-2003), Faculty of Science, Dayalbagh Educational Institute, Agra, October 2-4, 2003, pp. 241-244.
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- Singh, R.P., Suman, R., Gupta, N., Singh, A., **Gupta, P.**, and Pathak, B. (2003). Quantification ofheavy metal mobility through a soil column, Twelfth National Symposium on Environment (NSE-12) held at Department of Physics, H.N. Bahuguna Garhwal University, Badshahi Thaul Campus, New Tehri, Tehri Garhwal, June 5-7, 2003, pp. 462-468.
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- **Gupta, P.** (2021). Biomass derived biochar for dyes removal from aqueous environment. Book of Abstracts, 2nd International Conference on Instigating Research in Materials, Energy, and Environment (ICIRMEE-2021) organized by Easwari Engineering College, Ramapuram, Affiliated to Anna University, Chennai, India from 6-7 October, 2021, p. 16.
- **Gupta, P.** (2020). Recent trends in waste to energy solutions for solid waste management, Procs. Virtual National Conference on Smart Waste Management-2020 (SWM-2020) organized by SRM institute of Science and Technology, Kattankulathur, Tamil Nadu, India in association withIndian Institute of Chemical Engineers (IIChE), Chennai Regional Center, 6-7 November, 2020, p. 30.
- **Gupta, P.** (2017). Harvesting the potential of chemically modified ecofriendly cellulosic materials for heavy metal remediation from wastewater: an overview. 3rd International Conference on Global Trends in Pure and Applied Chemical Sciences (ICGTCS-2017), SRM University, NCR Campus , Modinagar, 8-9 Dec 2017.
- **Gupta, P.**, Verma, D.K., Maheshwari, S. (2016). Optimization of eco-friendly dyeing methods of polyamide fibres with 1,2-dihydroxy anthraquinone using natural and metallic mordants at low temperatures. International Conference on Global Initiatives in Applied Sciences and Green Technologies (GiAgT-2016) September 9-11, 2016, p. 38.
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- Singh, R.P., Gupta, S., Pathak, B., Gupta, R., Suman, R., and **Gupta, P.** (2004). Preparation and characterization of chemically modified MCM-41 type adsorbent for toxics in water,International Conference on Recent Advances in Composite Materials (ICRACM-2004), Banaras Hindu University, Varanasi (India), December 17-19, 2004, pp. 98.
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- Singh, R.P., and **Gupta, P.** (2004). Geochemical changes releasing arsenic from the aquifer. 32nd International Geological Congress, Florence, Italia, August 20-28, 2004.
- Singh, R.P., and **Gupta, P.** (2004). Remediation of mercury using a pyroaurite type sorbent. 7th International Conference on Mercury as a Global Pollutant (ICMGP), Ljubljana, Slovenia, June 27-July 2, 2004.
- **Gupta, P.**, Gupta, R., Sharma, A., and Singh, R.P., (2004). Sorption solidification of selected heavy metals from water by a synthesized pyroaurite type sorbent. 12th Annual Session of APSI Scientists Meet, National Seminar on Current Issues of Plant Sciences: Health and Environmental Aspects, St. John's College, Agra), Oct. 8-9, 2004, pp. 22-23.
- Gupta, R., **Gupta, P.**, Sharma, A., and Singh, R.P. (2004). Functionalized hexagonal mesoporous silica (FHMS) for the sorption of Cr, Ni, Cu, Zn and Cd from electroplating wastewater, 12th Annual Session of APSI Scientists Meet, National Seminar on Current Issues of Plant Sciences: Health and Environmental Aspects, St. John's College, Agra),
- Oct. 8-9, 2004, pp. 23.
- Sharma, A., John, R.V., **Gupta, P.**, Gupta, R., and Singh, R.P. (2004). Fly ash for COD Removal from dyeing wastewater. 12th Annual Session of APSI Scientists Meet, National Seminar on Current Issues of Plant Sciences: Health and Environmental Aspects, St. John's College, Agra), Oct. 8-9, 2004, pp. 23-24.
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- Singh, R.P., Suman, R., John, R.V., Singh, A., **Gupta, P.**, Kulshrestha, R.R., Pathak, B., and Gupta, S. (2003). Assessment of groundwater contamination by interaction of loamy soil with salt of heavy metals. National Conference on Groundwater Management-Future Challenges and its Impact on Environment held at Department of Geology, Aligarh Muslim University, Aligarh, March 28-29, 2003, pp. 101.
- Singh, R.P., Gupta, N., Suman, R., Singh, A., **Gupta, P**., Gupta, S., and Pathak, B. (2003). Roof- top rain water harvesting to recharge groundwater reservoir of a group of houses. National Conference on Groundwater Management-Future Challenges and its Impact on Environmentheld at Department of Geology, Aligarh Muslim University, Aligarh, March 28-29, 2003, pp. 137.
- Singh, R.P., Chauhan, M.S., **Gupta, P.**, Singh, A., Suman, R., Kulshrestha, R.R., John, R.V., and Gupta, S. (2003). Appropriate remediation technologies for arsenic contaminated groundwater, National Seminar on Emerging Chemical Technologies in Industries held at Vijaya Raje Govt. Girls P.G. College Morar, Gwalior, February 2003, pp. 1-2.
- Singh, R.P., Kulshrestha, R.R., Gupta, N., Suman, R., Singh, A., **Gupta, P.**, and Pathak, B. (2003). Fluoride uptake by fly ash, National Conference on Groundwater Management-Future Challenges and its Impact on Environment held at Department of Geology, Aligarh Muslim University, Aligarh, March 28-29, 2003, pp. 1.
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- Singh, R.P., **Gupta, P**., and Prasad, F.M. (2003). Synthesis of a pyroaurite type sorbent for the removal of Cd from water, 5th Indian Agricultural Scientists and Farmer's Congress of Bioved Research Society held at Vigyan Parishad, University of Allahabad, February 2, 2003, pp. 64.
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- Gupta, K.C., and **Gupta, P.** (2002). Synthesis of some naturally occuring anthraquinones as alternative to natural dyes. 72nd Annual Session and National Symposium of The National Academy of Sciences, India on 'Biodiversity: A Scientific Approach-Agenda for the 21st Century', North-Eastern Hill University, Shillong, October 2002 (Index No. A/27/2002).

Book Chapters (Scopus indexed and Non-Scopus)

S.N.	Authors	Title of Chapter	Book title	Pages	Year	Publisher
1.	**Gupta, Piyush**	Plastic waste management	Industrial People Management	253-260	2021	Saliha Publications,Tamil Nadu, India
2.	**Gupta, Piyush**	Solid waste management	Industrial People Management	388-396	2021	Saliha Publications,Tamil Nadu, India
3.	**Gupta, Piyush;** Gupta, Namrata; Dash, Subhakanta;	Biochar for sustainable environmental management	BioChar: Applications for Bioremediation of Contaminated Systems	147-162	2022	Walter de Gruyter GmbH, Berlin/Boston
4.	Singh, Monika; Doli; Yadav, Amit; Kaushik, Sumit; Gupta, Namrata; Singh, Gyanendra; **Gupta, Piyush**	Air and Water Pollution Monitoring and Control Through Bionanomaterial-Based Sensors	Bionanotechnology Towards Sustainable Management of Environmental Pollution	183-208	2022	CRC Press (Taylor and Francis Group), Boca Raton
5.	Kaushik, S., Yadav, A., Singh, M., Gupta, N., Singh, G., **Gupta, P.**	Bionanotechnology in Biofuel and Bioenergy Production	Bionanotechnology Towards Sustainable Management of Environmental Pollution	235-252	2022	CRC Press (Taylor and Francis Group), Boca Raton
6.	**Gupta, Piyush;** Rana, Neha; Dash, Subhakanta; Gupta, Namrata; Singh, Monika; Kaushik, Sumit	Bionanocomposite Membranes and Adsorbents for Water and Wastewater Treatment	Bionanotechnology Towards Sustainable Management of Environmental Pollution	141-166	2022	CRC Press (Taylor and Francis Group), Boca Raton
7.	**Gupta, Piyush;** Salar, Sapna; Rana, Neha	Role of biochar in sorptive removal of pharmaceutical and personal care products from aqueous environments	Synergistic Approaches for Bioremediation of Environmental Pollutants: Recent Advances and Challenges	147-160	2022	Academic Press, Elsevier
8.	Rana, Neha; **Gupta, Piyush**	Microbes: An eco-friendly tool in wastewater treatment	Synergistic Approaches for Bioremediation of Environmental Pollutants: Recent Advances and Challenges	161-183	2022	Academic Press, Elsevier
9.	Rana, Neha; Salar, Sapna; **Gupta, Piyush**	Biochar for Removal of Dyes from Industrial Effluents	Designer Biochar Assisted Bioremediation of Industrial Effluents	145-156	2022	CRC Press (Taylor and Francis Group), Boca Raton, Florida
10.	Salar, Sapna; Rana, Neha; **Gupta, Piyush**	Efficacy of Biochar in Decontamination of Pesticides	Designer Biochar Assisted Bioremediation of Industrial Effluents	157-172	2022	CRC Press (Taylor and Francis Group), Boca Raton, Florida
11.	**Gupta, Piyush** Gupta, Namrata; Rana, Neha; Salar, Sapna; Dash, Subhakanta	Prospects of Biochar Technology for Clean Water Provision	Designer Biochar Assisted Bioremediation of Industrial Effluents	121-143	2022	CRC Press (Taylor and Francis Group), Boca Raton, Florida
12.	**Gupta, Piyush;** Gupta, Namrata; Dash, Subhakanta; Singh, Monika	Role of Algae in Biodegradation of Plastics	Next-Generation Algae: Volume I: Applications in Agriculture, Food and Environment	125-145	2023	John Wiley and Sons, Inc.
13.	Gupta, Namrata; Singh, Monika; **Gupta, Piyush;** Mishra, Preeti; Gupta, Vijeta	Heavy Metal Bioremediation and Toxicity Removal from Industrial Wastewater	Next-Generation Algae: Volume I: Applications in Agriculture, Food and Environment	163-193	2023	John Wiley and Sons, Inc.
14.	Singh, M.; Gupta, N.; **Gupta, P.;** Doli; Mishra, P.; Yadav, A.	Discovery of Novel and Biologically	Next-Generation Algae: Volume II: Applications in Medicine and the	Jan-40	2023	John Wiley and Sons, Inc.

		Active Compounds from Algae	Pharmaceutical Industry			
15.	**Gupta, Piyush**	Mechanisms involved in the removal of contaminants by biochar from an aqueous medium	Integrative Strategies for Bioremediation of Environmental Contaminants, Volume Two	199-223	2023	Academic Press
16.	Rana, Neha; **Gupta, Piyush**	Microbial assisted restoration of contaminated agricultural soil for sustainable environment	Integrative Strategies for Bioremediation of Environmental Contaminants, Volume Two	225-247	2023	Academic Press
17.	**Gupta, Piyush;** Rana, Neha	Recent advances in dyes removal technologies from wastewater using biochar	Integrative Strategies for Bioremediation of Environmental Contaminants, Volume Two	249-272	2023	Academic Press
18.	Joshi, Pankaj; **Gupta, Piyush**	Seasonal Variation in Water Quality of River Yamuna in Delhi NCR Region During 2022	Emerging Trends in Chemical Science	98-106	2023	Walnut Publication (an imprint of Vyusta Ventures LLP)

Details of conferences attended with the paper presented

Sl.No.	**Name of the Conference**	**National /International**	**List of Authors**	**Title of Paper, Paper Number in the Proceeding**
i	SWM-2021	International	**Piyush Gupta**	Recycling of biomass waste into biochar for heavy metal remediation from aqueous solution
ii	ICIRMEE-2021	International	**Piyush Gupta**	Biomass derived biochar for dyes removal from aqueous environment
iii	RASTH-2021	International	**Piyush Gupta**	Cost effective method for managing industrial fly ash waste and its application in water purification
iv	NSWTD-2021	International	**Piyush Gupta**	Potential role of biochar in water treatment
v	SWM-2020	National	**Piyush Gupta**	Recent trends in waste to energy solutions for solid waste management, WE-301
vi	Biodiversity Conservation and Tourism	International	**Piyush Gupta**	Impact of Covid-19 on Environment (Poster Presentation)

Details of Orientation and Refresher/Workshop/Faculty Development Programs/ Short Term Course/Research Methodology Course attended

Name of the Course	Place	Duration		Name of the Organizing Institution	Sponsoring Agency
		From	To		
Orientation Programs					

Teachers' Orientation Program (Faculty Induction Program-FIP)	Ramanujan College, University of Delhi	1/9/2020	30/9/ 2020	Teaching Learning Centre, Ramanujan College, University of Delhi	MHRD PMMMNMTT GOI
Refresher Courses					
Teacher and Teaching in Higher Education	SWAYAM-ARPIT PORTAL	1/12/2020	31/3 2021	Savitribai Phule Pune University, Pune	SWAYAM-AICTE-ARPIT
Online Refresher Course in Chemistry for Higher Education	SWAYAM-ARPIT PORTAL	1/7/2019	31/12/2020	Sri Guru Tegh Bahadur Khalsa College, University of Delhi	SWAYAM-AICTE-ARPIT
1st Online Simmer School (equiv. To RC)	Gujarat University, Ahmedabad	19/10/2020	1/11 2020	UGC-HRDC, Gujarat University, Ahmedabad	UGC
Research Methodology Courses					
Research Methodology	Lucknow University, Lucknow	14/7/2014	19/7/2014	UGC-ASC, Lucknow University, Lucknow	UGC
UHVs (AICTE)					
UHV Refresher-2	Online	15/5/2023	20/5/2023	AICTE, New Delhi	AICTE
UHV Refresher-1	Online	14/2/2022	18/2/2022	AICTE, New Delhi	AICTE
Inculcating universal human values in technical education	Online	19/7/2021	23/7/2021	AICTE, New Delhi	AICTE
Faculty Development Programs (ATAL ACADEMY)					
Novel materials for sustainable development	Online	10/9/2022 18/9/2022	15/9/2022 22/9/2022	IIT, Patna	ATAL ACADEMY (AICTE)
Recycling of plastics for sustainable growth	Online	10/1/2022	14/1/2022	Central Institute of Petrochemicals Engineering and Technology (CIPET): Institute of Plastics Technology (IPT)	ATAL ACADEMY (AICTE)
Materials and Techniques for the treatment of wastes	Online	4/10/2021	8/10/2021	Anna University, Tamil Nadu	ATAL ACADEMY (AICTE)
Wastewater treatment, recycle and reuse	Online	6/9/2021	10/9/2021	NSIT, West Campus	ATAL ACADEMY (AICTE)
Lean thinking for sustainable business practices	Online	16/8/2021	20/8/2021	SRMIST, Delhi-NCR Campus, Modinagar	ATAL ACADEMY (AICTE)
Novel materials	Online	8/2/2021	12/2/2021	NIT, Patna	ATAL ACADEMY (AICTE)
Waste technology	Online	21/12/2020	25/12/2020	CV Raman Global University, Odisha	ATAL ACADEMY (AICTE)
Ethics, moral, behavioral science and attitude	Online	12/10/2020	16/10/2020	College of Engineering, Trivandrum	ATAL ACADEMY (AICTE)
Leadership and excellence	Online	25/9/2020	29/9/2020	Algappa University, Tamil Nadu	ATAL ACADEMY (AICTE)
FDPs (Others)					
CO PO Mapping and CO PO Attainment	Online	29/5/2023	2/6/2023	RandD and IQAC Cell, Greater Kolkata	NA

				College of Engineering and Management, West Bengal	
Higher Education: A paradigm shift in teaching and Learning	Online	24/7/2023	29/7/2023	IILM University, Gurugram	NA
Innovations in water treatment and sustainable infrastructure	Online	29/5/2023	2/6/2023	Chandigarh Engineering College, Jhanjeri, Mohali	NA
Research methodology and publication ethics	Online	16/1/2023	20/1/2023	RandD and IQAC Cell, Greater Kolkata College of Engineering and Management, West Bengal	NA
Sustainable technologies for low-cost drinking water production	Online	18/1/2021	22/1/2021	PSIT College of Engineering, Kanpur	AKTU, Lucknow
Renewable energy resources	Online	7/12/2020	11/12/2020	K.K. Wagh Polytechnic, Nashik, Maharashtra	ISTE Staff Chapter
Chemistry in medicine and materials science	Online	21/9/2020	25/9/2020	NIT, Andhra Pradesh	MHRD
Recent advances in chemical sciences	Online	9/7/2020	20/7/2020	SRMIST, KTR Campus, Tamil Nadu	SRMIST
Spectroscopic and analytical techniques: applications	Online	25/5/2020	29/5/2020	Guru Angad Dev TLC and J.C. Bose University of Science and Technology, YMCA Faridabad	PMMMNMTT, MHRD, GOI
Short term training programs (STTPs) / Short Term Courses (STCs)					
Managing your ego and emotions at work place (STC)	Online	11/9/2023	15/9/2023	NITTTR Chandigarh and SRMIST, Delhi-NCR Campus, Modinagar	Ministry of Education, GOI
Environmental Pollution: A threat to life in the air (ISTTP-10)	Online	15/8/2023	21/8/2023	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Energy and environmental conservation (ISTTP-8)	Online	18/4/2023	24/4/2023	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Developing healthy work culture (STC)	Online	13/3/2023	17/3/2023	NITTTR Chandigarh and SRMIST, Delhi-NCR Campus, Modinagar	Ministry of Education, GOI
Biodiversity and environment conservation (ISTTP-7)	Online	9/3/2023	15/3/2023	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Greener living: Reduce, Recycle and Reuse (ISTTP-6)	Online	1/2/2023	7/2/2023	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Production and regulation of chemicals and toxins for environmental conservation (ISTTP-5)	Online	7/12/2022	13/12/2022	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Methods, modeling, data and tools of environmental conservation (ISTTP-4)	Online	1/11/2022	7/11/2022	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Principles of Green Chemistry (STC)	Online	20/9/2022	29/9/2022	Govt. Holkar Science College, Indore	NA

Digital tools for teaching and learning (STC)	Online	25/7/2022	29/7/2022	NITTTR Chandigarh and SRMIST, Delhi-NCR Campus, Modinagar	MHRD, GOI
Contrivance of sustainable development goals for environmental conservation (ISTTP-3)	Online	24/6/2022	30/6/2022	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Computer aided drug designing and molecular dynamics simulations - CAMDS (STTP)	Online	13/6/2022	19/6/2022	NIT, Rourkela	NA
Impact and panacea of environmental pollution: the past, present and future (ISTTP-2)	Online	20/4/2022	26/11/2022	Raj Rishi Govt. Autonomous College, Alwar, Rajasthan	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Emerging trends in civil engineering (STTP)	Online	24/1/2022	29/1/2022	BTR Constructions, Erode	MSME
Nanomaterials for next generation applications (STC)	Online	22/3/2021	27/3/2021	QIP Centre, IIT-Indore	AICTE
Applications of smart materials and systems (AICTE-QIS STTP)	Online	8/3/2021	13/3/2021	CV Raman Global University, Odisha	AICTE
Futuristic innovations, trends in renewable energy and utilization technologies (Phase-3 STTP)	Online	14/12/2020	19/12/2020	VSB Engineering College, Anna University, Tamil Nadu	AICTE
Control air pollution-defer climate change (STTP)	Online	21/12/2020	26/12/2020	V.P. Dr P.G. Halakatti College of Engineering and Technology, Vijaypur	AICTE
Recent trends on facts and renewable energy sources (STC)	Online	24/11/2020	29/11/2020	NIT, Rourkela	NA
Solid waste: a hidden treasure in reality (STTP)	Online	23/11/2020	28/11/2020	V.P. Dr P.G. Halakatti College of Engineering and Technology, Vijaypur	AICTE
Recent trends in chemical engineering and process technology (STC)	Online	12/10/2020	16/10/2020	NIT, Srinagar	TEQIP-III
Training of trainers (TOT) for teacher educators (STTP)	Online	5/10/2020	9/10/2020	NITTTR, Bhopal	MHRD, GOI
Research Communication (STC)	Online	25/9/2020	29/9/2020	Dr B.R. Ambedkar NIT, Jalandhar	TEQIP-III
The Education Factory (STC)	Online	18/9/2020	22/9/2020	Dr B.R. Ambedkar NIT, Jalandhar	TEQIP-III
Chemistry for engineering applications (STC)	Online	14/9/2020	18/9/2020	Dr B.R. Ambedkar NIT, Jalandhar	TEQIP-III
Intellectual property rights-IPR (STC)	Online	7/9/2020	11/9/2020	Dr B.R. Ambedkar NIT, Jalandhar	TEQIP-III
Trends and prospects in biorefinery (STC)	Online	25/9/2020	29/9/2020	Dr B.R. Ambedkar NIT, Jalandhar	TEQIP-III

Advanced topics in chemical sciences (STC)	Online	15/5/2020	21/5/2020	Nallamuthu Gounder Mahalingam College, Bharathiar University, Coimbatore	TEQIP-III
Workshops					
Application of remote sensing and GIS in Urban Planning	Online	15/3/2023	19/3/2023	NIT, Patna and Institute of Town Planners, India	ITPI - Bihar Regional Chapter
NEP-2020: Educational framework for global citizenship in higher education	Online	24/6/2022	24/6/2022	UGC-HRDC, Gujarat University, Ahmedabad	UGC
Intellectual property awareness / training program	Online	4/3/2022	4/3/2022	Intellectual Property Office, India	National IP Awareness Mission (NIPAM)
IP-MAXIMA 2021	Online	7/1/2022	8/1/2022	Innovative Technology Enabling Centre (InTEC), CSIR-IMMT, Odisha	CSIR
UGC-DAE CSR Facilities	Online	9/11/2020	12/11/2020	UGC-DAE Consortium for Scientific Research, Mumbai Centre and Swayam Cell, HNB Garhwal University, Srinagar-Garhwal, Uttarakhand	BARC, Mumbai
Intellectual Property Rights	Online	2/11/2020	6/11/2020	SRMIST, Delhi-NCR Campus, Modinagar and CIPAM, DPIIT, Ministry of Commerce and Industry, GOI	NA
Climate change impact on water resources systems	Online	28/9/2020	2/10/2020	NIT, Silchar	TEQIP-III
Designing quality multiple choice questions	Online	1/8/2020	10/8/2020	Association of Chemistry Teachers, HBCSE, TIFR, Mumbai	NA
Skill development for online teaching	Online	5/5/2020	7/5/2020	IQAC, Bhavan's College, Mumbai	NA

MOOCs completed with e certificate

Details of MOOC	Subject	Organizing Agency	Duration of MOOC	Date of certification	Level of MOOC (UG/PG)	e- certicate Number
Waste to energy conversion	Chemical engineering, Energy and Environment Energy Systems	IIT, Roorkee	18/1/2021 to 12/3/2021 (8 weeks)	June 2021	UG	NPTEL21CH09 S21460378
Plastic waste management	Civil engineering, Environment	IIT, Kharagpur	18/1/2021 to 12/3/2021 (8 weeks)	June 2021	PG	NPTEL21CE04 S11460436

Technologies for clean and renewable energy production	Chemical engineering, Energy and Environment Energy Systems	IIT, Roorkee	14/9/2020 to 06/11/2020 (8 weeks)	December 2020	UG/PG	NPTEL21CH37 S41460041
Fundamentals of spectroscopy	Chemistry	IISER and NCL, Pune	27/1/2020 to 17/4/2020 (12 weeks)	July 2020	UG	Covid-19 impacted jan 2020 semester certificate (continuous onlinev assessment score)
Solid and hazardous waste management	Environmental Sciences	Central university of Punjab, Bathinda, Punjab	15/7/2019 to 30/10/2019 (15 weeks)	19/12/2019	PG	SWAYAM-UGC
Basics in Chromatography	Chemistry	Dipam Foundation Gujarat	27/4/2020 to 6/5/2020 (10 days)	May 2020	UG	___________

Awards and Achievements

- Awarded with Senior Research Fellowship by Council of Scientific and Industrial Research (CSIR), New Delhi (1.12.2002-31.3.2005)
- Awarded with Research Scholarship for Ph.D. by Dr. B.R. Ambedkar University, Agra, 2002

Professional Memberships:

- Life Fellow Member of Indian Council of Chemists (FICC, LF 1682), 2015
- Life Member of Indian Society for Technical Education (ISTE, LM 97474), 2014
- Life Member of National Magnetic Resonance Society (NMRS), IISc Bangalore, India(Reg. No.-913/93-94, Online S. No. 474), 2004