

Dr. NEHA DHIMAN
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Department of Chemistry
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DOB: 5th December 1991



Educational Qualifications

Ph.D.in Industrial Chemistry under the Faculty of Engineering and Technology

Dr. S S Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University Chandigarh, India-160014

(2019) PhD Thesis: *Studies on the removal of some common drugs from aqueous solutions using metal oxide nanoparticles and agricultural base adsorbents-A comparison*, Ph.D. Supervisor: (Prof.) Neeta Sharma

M.Sc (Industrial Chemistry) - Dr. S S Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University Chandigarh, India-160014 (2011-2013)

Bachelor of Science (Non-Medical) Smt. Aruna Asaf Ali Govt. P.G college, Kalka Affiliated to Kurukshetra University, Kurukshetra, India (2008-2011)

Teaching/Research Experience

- 20 July 2018 – till date
Adhoc Lecturer in Industrial Chemistry, Chemistry and Applied Chemistry (Pharmaceutical) in Department of Chemistry, GGDSD College, Chandigarh, India -160030
- 16 April 2015 – 19 July 2018
INSPIRE Fellow in Dr. S S Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University Chandigarh, India-160014
- 25 July 2014 – 15 April 2015
Adhoc Lecturer in Industrial Chemistry, Chemistry and Applied Chemistry (Pharmaceutical) in Department of Chemistry, GGDSD College, Chandigarh, India -160030
- 22 July 2013 – 23 April 2014
Guest Lecturer in Industrial Chemistry, Chemistry and Applied Chemistry (Pharmaceutical) in Department of Chemistry, GGDSD College, Chandigarh, India -160030

Areas of Interest

- Waste water treatment, Batch and Column adsorption of water contaminants from waste water, Environmental remediation, Nanoparticles and nanotechnology, Biogenic adsorbents

Publications (Journal/Book Chapters)

Journal Publications:

Neha Dhiman, "Copper Oxide Nano Particles as Efficient Nano Adsorbent for the Removal of Pb⁺² and Cd⁺² ions From Aqueous Solution: Equilibrium and Kinetic Study", *Chemical Engineering & Process Techniques*, vol. 9, 1089, 2024

Neha Dhiman, "Comparative Studies of Diclofenac Sodium (NSAID) Adsorption on Wheat (*Triticum Aestivum*) Bran and Groundnut (*Arachis Hypogaea*) Shell Powder using Vertical and Sequential Bed Column", *Annals of Advances in Chemistry*, vol. 8, pp. 021-029, 2024

Neha Dhiman, "Green synthesis of CuO nanoparticles via Tulsi (*Ocimum Sanctum*) leaf extract for efficient adsorptive removal of doxycycline hydrochloride from aqueous solution", Waste Management Bulletin, vol. 2, pp. 216-228, 2024

Neha Dhiman, "Continuous flow column adsorption and desorption for the study of interaction of fluoroquinolone antibiotic ofloxacin hydrochloride with ZnO and CuO nanometal oxides in aqueous solution (Continuous column adsorption desorption)", Waste Management Bulletin, vol. 2, pp. 43-57, 2024

Neha Dhiman, "Analysis of non competitive and competitive adsorption behaviour of ciprofloxacin hydrochloride and ofloxacin hydrochloride from aqueous solution using oryza sativa husk ash (single and binary adsorption of antibiotics)", Cleaner Materials, vol. 5, Elsevier, 2022

Neha Dhiman, "Binary adsorption of [Pb(II) + Co(II)] from aqueous solution using thiolated saw dust", Water Science & Technology, vol. 84, pp. 2591-2600, 2021

Neha Dhiman and N. Sharma, "Removal of pharmaceutical drugs from binary mixtures by use of ZnO nanoparticles", Environmental Technology & Innovation, vol. 15, pp. 1-9, 2019

Neha Dhiman and N. Sharma, "Kinetic, mechanistic, equilibrium and thermodynamic studies for the adsorption of paracetamol on agricultural based adsorbents and nanometal oxides", International Journal of Research in Chemistry and Environment, vol. 9, pp. 11-20, 2019

Neha Dhiman and N. Sharma, "Batch adsorption studies on the removal of ciprofloxacin hydrochloride from aqueous solution using ZnO nanoparticles and groundnut (*Arachis hypogaea*) shell powder: a comparison", Indian Chemical Engineer, vol. 61, pp. 67-76, 2019

Neha Dhiman and N. Sharma, "Removal of ciprofloxacin hydrochloride from aqueous solution using vertical bed and sequential bed columns", Journal of Environmental Chemical Engineering, vol. 6, pp. 4391-4398, 2018

J. Singh, Neha Dhiman and N. K. Sharma, "Effect of Fe(II) on the Adsorption of Mn(II) from Aqueous Solution Using Esterified Saw Dust: Equilibrium and Thermodynamic Studies", Indian Chemical Engineer, vol. 60, pp. 255-268, 2017

N. Sharma and Neha Dhiman, "Kinetic and thermodynamic studies for ciprofloxacin hydrochloride adsorption from aqueous solution on CuO nanoparticles", International Journal of Chem Tech Research, vol. 10, pp. 98-106, 2017

Neha Dhiman and N. Sharma, "Adsorption potential of ZnO nanoparticles for ofloxacin hydrochloride from aqueous solutions", International Journal of Advanced Technology in Engineering and Science, vol. 4, pp. 1-10, 2016

N. Sharma, Neha Dhiman and B. Karwal, "Kinetic and equilibrium studies on the removal of copper and zinc ions from water using

eggshell powder (ESP)", The Research Journal, vol. 2, pp. 98-103, 2016

Book Chapters:

Neha Dhiman, "Mechanistic Studies of Diclofenac Sodium (NSAID) Adsorption on Wheat (*triticum aestivum*) Bran and Groundnut (*arachis hypogaea*) shell Powder using Vertical and Sequential Bed Column", in Jambhani Philosophy and Environment, vol. 4, Associated Book Company, Jodhpur, pp. 169-186, 2023

Neha Dhiman and G. Sharma, "Study of Association of Diclofenac Sodium (NSAID) with Nanometal Oxide and Agricultural Based Adsorbent: Experimental Investigation and Kinetic Mechanism", in A Multidisciplinary Approach in Innovation Paradigm, 1st Edition, Swaranjali Publication, pp. 83-94, 2022

G. Sharma and Neha Dhiman, "A review on Adenine based Metal Complexes for Anticancer Applications", in A Multidisciplinary Approach in Innovation Paradigm, 1st Edition, Swaranjali Publication, pp. 23-36, 2022

N. Sharma and Neha Dhiman, "Zinc oxide nanoparticles as sorbent for removal of Co²⁺ ions from aqueous solutions", in Nanotechnology: Novel Perspectives and Prospects, pp. 519-524, 2014

Seminars/ Conferences/Symposiums (Paper Presented)

- Presented a paper titled, 'Vertical And Sequential Column Adsorption' in the *International Conference* organised by Guru Jambheshwar Environment Conservation Research Chair, Jai Narain University, Jodhpur in collaboration with private colleges of Sanchole, Rajasthan (India) (June 05-06 2023)
- Presented a paper titled, 'Mechanistic Studies of Diclofenac Sodium (Nsaid) Adsorption on Wheat (Triticum Aestivum) Bran and Groundnut (Arachis Hypogaea) Shell Powder Using Vertical And Sequential Column' in the *International Conference* organised by Guru Jambheshwar Environment Conservation Research Chair, Jai Narain University, Jodhpur in collaboration with Jambhani Sahitya Akademi, Bikaner Rajasthan (India) (June 05-06 2022)
- Presented a paper titled, 'Interaction of Fluoroquinolone Antibiotic, Ofloxacin Hydrochloride With Nanometal Oxides In Water: Continuous Flow Column Adsorption And Desorption' at *14th Chandigarh Science Congress "Science and Technology Innovations: Ushering in the era of Make in India", CHASCON-2020* at Panjab University, Chandigarh along with Chandigarh Region Innovation And Knowledge Cluster (Crikc) in online mode (December 17-19 2020)
- Presented a paper titled, 'Binary adsorption of diclofenac sodium and paracetamol using CuO nanoparticles as adsorbent' at *Professor Ram Chand Paul National Symposium On Triumphs of Sustainable Progress in Chemistry* organized by Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh Sponsored by CAS, Purse (February 22-23 2018)
- Presented a paper titled, 'Competitive adsorption of ciprofloxacin and ofloxacin hydrochloride using ZnO nanoparticles as adsorbent' at *International conference, NanoSciTech-2017* held at Panjab University, Chandigarh, India (November 08-10 2017)
- Presented a paper titled, 'Effect of Fe(II) ions on the removal of

Mn(II) ions from aqueous solution using esterified rice husk: Equilibrium and Thermodynamic Study' at 11th Chandigarh Science Congress, CHASCON-2017 at Panjab University, Chandigarh (March 09-11 2017)

- Presented a paper titled, 'Kinetic and equilibrium adsorption studies on removal of diclofenac sodium and paracetamol from aqueous solution using CuO nanoparticles as adsorbent' at Prof. Ram Chand Paul National Symposium on Current Advances in Chemical Sciences at Department of Chemistry, Panjab University, Chandigarh (February 24-25 2017)
- Presented a paper titled, 'Removal of ciprofloxacin hydrochloride from aqueous solution using CuO nanoparticles: Kinetic and Thermodynamic studies' at 3rd International conference on Nanotech, Nanoscience and Advanced Materials (ICNNAM) at Kuala Lumpur, Malaysia (February 09-10 2017)
- Presented a paper titled, 'Removal of ciprofloxacin hydrochloride from aqueous solution using ZnO nanoparticles and groundnut (arachis hypogaea) shell powder: A comparative study' at Conference on Achievements of women in Science and technology current scenario and future prospects at Department of Chemistry, P.U, Chandigarh (January 13-14 2017)
- Presented a paper titled 'Adsorption potential of ZnO nanoparticles for ofloxacin hydrochloride from aqueous solution' at 6th International conference on Science Technology and management at India International centre, New Delhi (December 04 2016)
- Presented a paper titled 'Studies on the removal of ofloxacin using ZnO nanoparticles' 2nd International conference on Harnessing Engineering Technology and Innovation for sustainable growth (HETIS-2016) at Dr. SSBUI CET, P.U, Chandigarh (September 30 – October 01 2016)
- Presented a paper titled 'Kinetic and equilibrium studies on the removal of copper and Zinc ions from water using Eggshell powder (ESP)' at International conference on Recent trends and development in environmental sustainability (RTDES) at NITTTR, Chandigarh (May 20 2016)
- Presented a paper titled 'Removal of ciprofloxacin hydrochloride from aqueous solution using wheat bran as a prospective adsorbent' at Chascon 2016, 10th Chandigarh Science Congress Panjab University, Chandigarh (February 29 –March 02 2016)
- Presented a paper titled 'Removal of Ar(II) from water using saw dust of Tectona Grandis as a prospective adsorbent' at Chascon 2015, 9th Chandigarh Science Congress Panjab University, Chandigarh (February 25-27 2015).
- Presented a paper titled 'Removal of ciprofloxacin from water using ZnO nanoparticles as a prospective adsorbent' at International conference, NanoSciTech-2016 held at Panjab University, Chandigarh, India (February 18-20 2016)
- Presented a paper titled 'Kinetic and Equilibrium studies on the removal of dyes from water using Egg-shell powder' at National Symposium on New Vision in Chemical Sciences organised by Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh (February 15-16 2014)
- Presented a paper titled 'Use of zinc oxide nanoparticles as adsorbent for removal of Co²⁺ ions from aqueous solutions' at International conference on Nanotechnology in the service of health, environment & society (NanoSciTech-2014) at Panjab University, Chandigarh (February 13-15 2014)

- Presented a paper titled ‘Recovery of Ni(II) from Lech Liquor with LIX84 as Extractant’ at *International conference on Interdisciplinary Areas With Chemical Sciences (ICIACS2013)* organised by Panjab University, Chandigarh in association with Institute of Nano Science and Technology (INST), Mohali (October 30-November 01 2013)
- Presented a paper titled ‘Environmental implications of Nanotechnology & Green Nanotechnology’ at International conference on *Frontiers in NANOSCIENCE, NANOTECHNOLOGY & their Applications (NanosSciTech-2012)* at Panjab University, Chandigarh (February 16-18 2012)

Refresher

Courses/Workshops/Training Programmes

STTP

- AICTE sponsored one week STTP (Part-II) on The Pedagogic for Effective Teaching Learning Through Outcome Based Education (OBE) from 1st to 6th March 2021 organized by Anjuman College of Engg. And Technology, Sadar Nagpur
- AICTE sponsored FDP-STTP on Science and Technology of Advanced Material (STAM-2021) from 22nd to 26th February 2021 held at NIT, Arunachal Pradesh
- AICTE-ISTE approved Orientation/Refresher Programme on Refresher Course in Chemistry from 8th to 13th February 2021 organized by A.V.C. College of Engineering, Mayiladuthurai, Tamilnadu
- AICTE Sponsored Short Term Training Program (Virtual Mode) Phase – III on Composite Materials : Micro to Nano – Fabrication Characterization and Modelling Including Additive Manufacturing from 31st August to 5th September 2020 organized by Department of Mechanical Engineering, Rajalakshmi Engineering College (Autonomous), Chennai.
- One week AICTE sponsored STTP on Nanotechnology and Functional Materials (NTFM-Phase-II) from 17th to 22nd August 2020 organized by Department of Mechanical Engineering, S V College of Engineering, Tirupati, Andhra Pradesh
- One Week Online Short Term Course on Hybrid Manufacturing Processes: Opportunities and Challenges from 6th to 10th July 2020 organized at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India under TEQIP-III
- Seven Day Short Course Program on Virtual Talk Series on Advanced Materials (VTSAM-2020) from 11th to 17th May 2020 conducted by IEEE-AcSIR-CSIO Nanotechnology Council (NTC) Student Branch Chapter, in collaboration with IEEE-AcSIR-CSIO Student Branch(SB), Chandigarh

FDP

- 3-Day Online National Level Faculty Development Program on Foundational Sciences: The Cornerstones of Engineering from 8th to 10th August 2024 organized by Department of Freshman Engineering at Sphoorthy Engineering College, Hyderabad
- One Day Online Faculty Development Program on Ai Tools For Teaching on 22nd June 2024 organized by Star International Foundation for Research and Education
- Online - NEP2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) from 16th to 26th January 2024 organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh
- Five days Faculty Development Program on Innovations in Water

Treatment & Sustainable Infrastructure from 29th May to 2nd June 2023 organized by Chandigarh Engineering College, Jhanjeri, Mohali

- Five Day Faculty Development Program (Online) on Nanomaterials for Sustainable Future from 12th to 16th December 2022 organized by Physics Division, Department of Basic Science and Humanities, GMR Institute of Technology, Rajam
- National Virtual Faculty Development Programme on Emerging Trends in Applied Chemistry from 25th to 30th July 2022 organized by Easwari Engineering College, Chennai.
- Four weeks Faculty Development Programme on Innovation & Entrepreneurship from 2nd to 23rd July 2022 organized by Department of Computer Science and Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati, Andhra Pradesh
- National one week Faculty Development Programme on ICT tools for Effective Teaching and Learning from 23rd to 28th May 2022 organised by Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra
- International one week Faculty Development Programme on Research methodology from 2nd to 7th May 2022 organised by Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra
- One week Faculty Development Programme (online) on Implementation of NEP-2020 in Higher Education from 17th to 22nd February 2022 organised by RKDF University, Bhopal (MP) and Supported by Makhanlal Chaturvedi Rashtriya Patrakarita Vishwavidyalaya, Bhopal (MP)
- Online FDP on Research methodology: Tools & Techniques from 20th to 22nd January 2022 organised by IES university and IES college of Technology
- One week Faculty Development Program (Online) on Materials for Energy and Biomedical Applications from 31st May to 4th June 2021 organized by Physics Division, Department of Basic Science and Humanities, GMR Institute of Technology, Rajam
- One Week Online FDP on Essential Skills and Technologies for Quality Research from 30th March to 3rd April 2021 organized by Library and Information Center, P. E. S. College of Engineering, Mandya, Karnataka
- One week Faculty Development Program on Nano Hybrid Composite Materials Characterization & Applications from 24th to 28th August 2020 organized by Department of Mechanical Engineering, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad
- National Level One Week Confederated Online Faculty Development Program on Orienting Applications & Conceptualized Aspects of Sciences & Humanities from 21st to 25th July 2020 organized by Department of Humanities & Sciences
- One week Faculty Development Program (Online) on Recent Advances in Synthesis, Characterization and Application of Nanomaterials from 13th to 17th July 2020 organized by Physics Division, Department of Basic Science and Humanities, GMR Institute of Technology, Rajam
- Three days Faculty Development Programme on Research Paper Drafting, Funding & Patent Methodologies from 2nd to 4th July 2020 organized by Department of Civil Engineering, Dr. N.G.P. Institute of Technology, Coimbatore

- Five Day Faculty Development Program on Strategies & Advancements in Research & Development: Strengthening Academician for Pharmaceutical care from 22nd to 26th June 2020 organised by Internal Quality Assurance Cell (IQAC) & Institution's Innovation Council (IIC) of Vignan Pharmacy College, Vadlamudi Guntur (Dt) in association with National Research Development Corporation (NRDC)
- Five Day Faculty Development Programme on IPRs for Professional Innovators from 16th to 20th June 2020 organized by Institution Innovation Council (IIC) - Aarupadai Veedu Institute of Technology (AVIT) & Vinayaka Mission's Research Foundation (VMRF)
- International Online Faculty Development Programme on Recent Advances in Nanomaterials from 4th to 6th June 2020 organised by Department of Science, St. Joseph's College of Engineering, OMR, Chennai
- Faculty Cum Student Skill Development Program on Biological Data Analysis & Data Science from 27th February to 4th March 2020 organised under the CPE scheme of UGC, New Delhi by P.G Department of Bioinformatics & Department of Biochemistry at Goswami Ganesh Dutta Sanatan Dharma College, Sector-32-C, Chandigarh under TEQIP-II
- Faculty Development Program on Teaching Pedagogies: Sharpen the Tools from 19th to 24th September 2016 at Dr. SS Bhatnagar UICET, Panjab University, Chandigarh under TEQIP-II

Workshop

- Online workshop by Impulse Technology on Solar Cell & OLED Devices Modeling & Simulation using SETFOS Software on 12th August 2024
- Online Hands-on-Training workshop on Nanomaterial & Nanoelectronics Devices Modeling & Simulation using NANODCAL & RESCU Software from Nanoacademic Technology from 29th to 30th July 2024
- National Level Workshop on Greener & Safer Chemistry Labs on 22nd October 2022 organized by PG Dept. of Chemistry, Kanya Maha Vidyalaya, Jalandhar
- Reviewer workshop: How to get the most out of being a reviewer of scientific articles at APAC Customer Success Hub Workshop, Presented by Dr. Biswanath Dutta Publisher, Prof. Henrik Rudolph Editor-in- Chief, Applied Surface Science on 10th August 2022
- Three Day National level online workshop on Outcome Based Education and Examination Reforms (OBE & ER - 2022) from 3rd to 5th August 2022 organized by Internal Quality Assurance Cell (IQAC), Bapatla Engineering College, Bapatla, Andhra Pradesh
- Workshop on Sustainable Materials Advances and Applications on 22nd July 2022 organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-600 089
- State Level Workshop on Eradication of Single Use Plastic and Propagation of Medicinal & Aromatic Plants-MAPs on 28th March 2022 at GGSDS College, Chandigarh
- IP-MAXIMA 2021 workshop from 7th to 8th January 2022 organized by Innovative Technology Enabling Center (InTEC), CSIR-Institute of Minerals and Materials Technology, Bhubaneswar
- Phase 1 Gandhi Chhadi Drive initiative of MGNCRE, Ministry of

Education Government of India from 27th to 31st December 2021

- Two days workshop on Possible Funding Opportunities in Materials Science from 6th to 7th August 2021 sponsored by SERB-DST under SSR Scheme and organised by Department of Applied Sciences, Punjab Engineering College, Chandigarh
- National e-Workshop on Hand-On Practice on Different Tools Used in Chemistry on 8th March 2021 organized by Shri Rajendra Suri Govt. College, Sardarpur-Rajgarh, Dhar, Madhya Pradesh, India under the aegis of MPHEQIP (World Bank Project) and IQAC Cell
- One Day National Level Workshop on Research Methodology on 1st March 2021 organized by Department of English, Shri Muktanand College Gangapur, Dist. Aurangabad, Maharashtra State, India
- One Day Online National Workshop entitled ICT Tools For Chemistry Teachers on 22nd February 2021 organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education.
- Workshop on Instrumentation techniques in Chemistry (FTIR and UV) on 24th December 2020 organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh
- Virtual Workshop on Nanotechnology and Pharmaceuticals from 3rd to 6th August 2020 organised by Department of Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Chengalpattu
- One Day National Level Webshop on Confidence and Technology Enabled Teacher – Part I on 21st July 2020 organised by Mangalore University Commerce Teachers Association – MUCTA
- One-Week Online Research Methodology Workshop from 3rd to 9th July 2020 conducted by SHoDH Haryana in collaboration with School of Business and Management Studies, Central University of Haryana, Mahendergarh and Indian Council of Social Science Research, New Delhi as knowledge partner
- Online Course on An Introduction to Materials Characterization Techniques from 22nd to 28th June 2020 conducted by Department of Physics, K. J. Somaiya College of Science and Commerce, Mumbai
- Two Days National Workshop on Interview Skills from 15th to 16th June 2020 organized by Centre for Training and Placement, Dr B R Ambedkar National Institute of Technology, Jalandhar
- Six day online workshop on Research Ethics and Quantitative Techniques for Research and Publications from 25th to 30th April 2020 organised by college library, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh
- Workshop on Instrumentation Techniques in Chemistry (HPLC, GC, IR, UV-VISIBLE SPECTROPHOTOMETER) on 21st September 2019 organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh
- Workshop on Waste Water Treatment : Approaches, Management and Capacity building from 3rd to 5th July 2019 organised by Panjab University, Chandigarh, India and University of Hull, Hull, UK at SAIF, Panjab University, Chandigarh, India
- Workshop on Instrumentation Techniques in Chemistry (HPLC,

GC, IR, UV-VISIBLE SPECTROPHOTOMETER) on 14th March 2019 organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh

- Workshop on Indian Research Information Network System (IRINS) on 1st December 2018 organised by Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh under the capacity building program of RUSA, U.T. Administration, Chandigarh
- Workshop on Mass spectrometry from 20th to 21st March 2018 organised by SAIf, Panjab University, Chandigarh
- Workshop on Research Methodology from 20th to 22nd March 2017 at Dr. SS Bhatnagar UICET, Panjab University, Chandigarh under TEQIP-II
- Workshop on Heterogeneous Catalysis and Applications from 1st to 5th August 2016 at P.U, Chandigarh
- National workshop on UV-visible spectrophotometer, FTIR, XRD,FE-SEM and TEM techniques from 25th to 30th April 2016 at Dr. SS Bhatnagar UICET, P.U, Chandigarh
- Workshop on Research methodology from 19th to 21st October 2015 at Dr. SS Bhatnagar UICET, Panjab University, Chandigarh
- Popular lecture cum two-day workshop on the topic Instrumentation Techniques in Chemistry from 17th to 18th January 2014 at Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh

Invited Talks

- Delivered a lecture in DBT sponsored seminar on “GOOD LABORATORY PRACTICE” organized by Resonance club, Department of Chemistry, GGSDS College, Sector-32-C, Chandigarh (October 27 2022)
- Delivered a lecture in DBT sponsored online “Instrumental Workshop” on IR, UV Spectroscopy, HPLC and Gas Chromatography organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh (November 27 2021)
- Delivered lecture in ‘Popular Lecture Series’ organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, sector-32, Chandigarh (August 14 2019)
- Delivered lecture in ‘Popular Lecture Series’ organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, sector-32, Chandigarh (February 26 2019)

Administrative Experience

- Contributed one review in the journal entitled “Case Studies in Chemical and Environmental Engineering”.
- Contributed six reviews in the journal entitled “Results in Engineering”.
- Contributed one review in the journal entitled “South African Journal of Chemical Engineering”.
- Contributed seven reviews in the journal entitled “Waste Management Bulletin”.
- Contribute four review in BP International.

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