




University of Delhi

Faculty Detail Performa



Name	DR ARTI JAIN	
Designation	ASSISTANT POFESSOR	
Department	CHEMISTRY	
Email	artijain@dr.du.ac.in , Jainarti21@gmail.com	

Educational Qualification

Degree	Institution	Year
PhD	University of Delhi	2013
M.Sc (Chemistry)	University of Delhi	2008
B.Sc (Chemistry)	University of Delhi	2006

Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
RESEARCH SCHOLAR	University of Delhi	2009-2013	JRF/SRF

Full time Teaching Experience

s.no	Designation	Institution	Time Period	Nature of Appointment
1	ASSISTANT PROFESSOR	DAULAT RAM COLLEGE	4 TH JULY 23 TO PRESENT	PERMANENT
2	ASSISTANT PROFESSOR	DAULAT RAM COLLEGE	JAN 2015-3 JULY 23	ADHOC
3	ASSISTANT PROFESSOR	INSTITUTE OF HOME ECONOMICS	AUG'14-JAN-15	ADHOC
4	ASSISTANT PROFESSOR	KALINDI COLLEGE	AUG'13-NOV'13	ADHOC
5	ASSISTANT PROFESSOR	DAULAT RAM COLLEGE	JULY'12-NOV-14	GUEST

Administrative Assignments

Name of Institute	Designation	Status	Time period	Experience
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF CANTEEN COMMITTEE	2022-23	1 YEAR
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	STAFF ADVISOR	2017-18	1 YEAR

DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	CONVENOR OF POETRY SOCIETY	2017-18	1 YEAR
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF STUDENT AMENITIES COMMITTEES	2017-18	1 YEAR
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF ALUMINI COMMITTEE	2016-2020	5 YEARS
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF PLACEMENT CELL	2018-2022	4 YEARS
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	TEAM MANAGER OF SPORTS COMMITTEE	2018-2020	2 YEARS
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF HELPDESK COMMITTEES FOR ADMISSIONS	2018-2021	3 YEARS
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF NIRF WORK FROM CHEMISTRY DEPARTMENT	2019-2020	1 YEAR
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	TREASURER OF STUDENT ADVSORY BOARD	2017-2018	1 YEAR
DAULAT RAM COLLEGE	ASSISTANT PROFESSOR	MEMBER OF ANNUAL MAGAZINE WORK	2019-20	1 YEAR

Areas of Interest in Teaching:

ORGANIC CHEMISTRY, GREEN CHEMISTRY

Subjects Taught

S.No	Course	Subject Taught	Semester	Year
1	BSC(H) CHEMISTRY	GREEN CHEMISTRY	V	
2	BSC(H) CHEMISTRY	SPECTROSCOPY V	VI	
3	BSC(H) GE	GE VARIOUS PAPERS	1,II,III,IV	

Research Projects

S.No	Name of Research Project	Funding Agency	National/International	Duration (Start date and end date)	Amount Sanctioned	Amount Received
1	DR-306: Trapping the waste-Rice husk as an agent to remove heavy metal ions, surfactants, and organic dyes from waste water	DU	National	2015-2016	5 Lacs	5 Lacs

2	DRC-05: Synthesis of Biobased mesoporous material and its applicaton in water purification	DU	National	2016-2019	15 Lacs	5 Lacs
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Publications:

Book Chapters/Articles

S.No	Details (Authors, Book title, Article title, Year, page range of article)	Publisher	Date of publishing(DDMMYY0)	Authored/Edited	ISBN No
1	A. Jain and R. Payal; Remediation of Toxic Contaminants In Water Using Agricultural Waste; In Book Applied Water Science Vol 2: Remediation Technologies, Pp-555-596;;	Wiley-Scrievener	June 2021	AUTHORED	9781119725282.Ch18
2	R. Payal and A. Jain Book Title: Sustainable Corrosion Inhibitors ; Chapter Title: Green Corrosion Inhibitors For Coatings, 147-174	Material Research Forum (MRF) Llc	2021	AUTHORED	9781644901496-7
3	R. Payal and A. Jain Book : Green Sustainable Process For Chemical And Environmental Engineering And Science; Chapter Title: Influence Of Biosurfactant In The Bioremediation Of Pentachlorophenol; pp- 341-352	Elsevier;	JULY 2021		http://Doi.Org/10.1016/B978-0-12-822696-4.00001-2
4	A. Jain and R. Payal; Title: Ca ion batteries in the book rechargeable batteries: history, progress and applications; 195-216	Wiley-Scrievener;	2020		Doi: 10.1002/9781119714774.Ch10
5	R. Payal and A. Jain Book Title: Inorganic Pollutants In Wastewater-Methods Of Analysis, Removal And Treatment Chapter Title: "Waste Fruit Cortexes For The Removal Of Heavy Metals from Wastewater" Chapter 8, Pp-275-293;	MRF	2017		Print Isbn 978-1-945291-34-0; Epdf Isbn 978-1-945291-35-
6	P. Malhotra and A. Jain , Graphene Oxide-Based Nanocomposites For Adsorptive Removal Of Water Pollutants, In Book <i>Contamination Of Water</i> ,	Elsevier	2021		Doi: 10.1016/B978-0-12-824058-8.00031-1

7	A. Jain , H.W. Khan and P Saluja; Research Methodologies Which Can Improve Urban Water Supply To Protect Public Health In Book Urban Water Crisis And Management	Elsevier	2022		97803239183 81
8	H. W. Khan and A. Jain ; Stress And Anxiety In The Digital Age: The Dark Side Of Digital Of Digital Technology In Book Titled <u>Impact and role of digital technologies in adolescent lives</u> ; Pp-118-123;	Igl Global	2022		Doi: 10.4018/ 978-1-7998- 8318
9	A. Jain , H.W. Khan and P. Jain; Application of biosurfactant as versatile additives or ingredients of food processing	Elsevier	2023		https://doi.org/ 10.1016/B978- 0-12-824283- 4.00007-1
10	P. Malhotra and A. Jain , Chemical Methods For The Treatment Of E-Waste;, pp 181-204;	Elsevier;	2023		https://www.sc iencedirect.com /science/article /abs/pii/B9780 323904636000 191
11	A. Jain and P. Malhotra; Covalent organic frameworks (cofs) as potential catalysts in the book titled metal-organic frameworks (mofs) as catalysts Pp:267-283;	Springer	2022		978-981-16- 7959-9
12	H. W. Khan, P. Jain and A. Jain ; Covid -19 Pandemic: Accelerating New Innovations In The Book Titled Covid 19: Impacts And Response; Pp105-113;	Bhoomi Publishi ng;	2020		978-93- 88901-11-6
13	Deepshikha and A. Jain ; Reverberations of Covid 19 on The Employment, Lives And Livelihoods of the masses In The Book Titled Covid 19: Impacts And Response; Pp-10-21	Bhoomi Publishi ng;	2020		978-93- 88901-11-6
14	A. Jain , P. Malhotra; Clay as Adsorbent for water purification	2022	2022		
15	R. Payal, A. Jain , Removal of EBT from waste water using activated carbon derived from agricultural waste corncob, In: Environment Health and Society, pp. 161-167	Academ ic publicati on	2021		ISBN: 978-93- 83931-24-8
16	A. Jain and P. Malhotra; Removal of heavy metal toxin chromium from water	Academ ic	2021		ISBN: 978-93- 83931-24-8

effluent using silica nanoparticles obtained from rice husk: An agricultural waste	publicati on			
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International

s.n o	Publication details (Authors, Title of article, Journal, Volume, Issue, Year, Page range of article, URL/DOI)	Date of Publishing	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No	ISSN No
1	S. Yadav, <u>A. Jain</u> , P. Malhotra. Bioinspired Synthesis and Green Ecological Applications of Reduced Graphene Oxide Based Ternary Nanocomposites, <i>Sustainable Materials And Technologies</i> , 29, E00315	2021	10.68	yes	yes	10.1016/j.susmat.2021.e00315
2	<u>A. Jain</u> , S. Yadav, P. Malhotra, Accidental Synthesis Of A Trimer Of Pyrazolone And Comparison Of Its Antioxidant Activity: An Investigatory Report. <i>Journal of Chemical Science</i> 133, 77	2021	2.150			https://doi.org/10.1007/s12039-021-01943-0
3	Sushma Yadav, <u>Arti Jain</u> , Priti Malhotra; A review on the sustainable routes for the synthesis and applications of cuprous oxide nanoparticles and their nanocomposites, <i>Green Chem.</i> , 2019, 21 , 937-955 https://doi.org/10.1039/C8GC03303J	2019	11.03	yes	yes	2213-347X
4	Sushma Yadav, Maruf Chauhan, Divya Mathur, Arti Jain, Priti Malhotra Sugarcane bagasse-facilitated benign synthesis of Cu ₂ O nanoparticles and its role in photocatalytic degradation of toxic dyes: a trash to treasure approach, <i>Environment, Development and Sustainability</i> , https://doi.org/10.1007/s10668-020-00664-7	March 2020	4.04	yes	yes	1387585X
5	Abha Sharma, Kavish Kumar Jain, Arti Jain, Mazaahir Kidwai, Ramesh Chandra Kuhad Bifunctional in vivo role of laccase exploited in multiple biotechnological applications,	Nov. 2018	3.530	yes	yes	14320614

	<u><i>Applied Microbiology and Biotechnology</i></u> volume 102, pages10327–10343(2018) https://link.springer.com/article/10.1007/s00253-018-9404-8?shared-article-renderer					
6	Roona Poddar, Arti Jain, Mazaahir Kidwai Bis[(L)Prolinato-N,O]Zn : A Water Soluble Recyclable Catalyst For Various Organic Transformations; Journal of Advance Research,2017;8(3): 245-270 https://doi.org/10.1016/j.jare.2016.12.005	2017	12.8 22	yes	yes	2090-1232
7	<u>M. Kidwai, R. Poddar, Arti Jain, R. Kumar and P. M Luthra;</u> Synthesis and SARs of Coumarin Fused 1,5-Benzothiazepines as Novel Anticancer and Antioxidant Agents, Mini reviews in Organic Chemistry 2015; 12(1): 24 10.2174/1570193X11666141029004602	2015	2.15 9	yes	yes	1570-193X
8	M. Upadhyay, B. Shrivastava, Arti Jain, M. Kidwai, S. Kumar, J.Gomes, D. G.Goswami, A. K. Panda, R. C.Kuhad Production of ganoderic acid by Ganoderma lucidum RCKB-2010 and its therapeutic potential” Ann Microbiol. 64 (2), 839 (2014). DOI: 10.1007/s13213-013-0723-9	June 2014	3.07	yes	yes	1869-2044
9	M. Kidwai, Arti Jain, A. Sharma and R. C. Kuhad ; Laccase Catalyzed Reaction Between Meldrum’s Acid And Catechols/Hydroquinones- An Investigation” Comptes Rendus Chimie 16, 728 (2013). https://doi.org/10.1016/j.crci.2013.04.006	2013	2.55	yes	yes	1631-0748
10	M. Kidwai, Arti Jain, A. Sharma and R. C. Kuhad Laccase - An natural source for the synthesis of	Sept 2013	6.17 7	yes	yes	2044-4753

	benzofuro[2,3-c]pyrazolin-5-ones” <i>Catal. Sci. Technol.</i> 3, 230 (2013). DOI: 10.1039/C2CY20452E					
11	M. Kidwai, Arti Jain, V. Nemaysh, R. Kumar and P. M. Luthra ; Efficient entry to diversly functionalized spirooxindoles from isatin and their biological activity” <i>Med. Chem. Res.</i> 22, 2717 (2012). https://link.springer.com/article/10.1007/s00044-012-0249-x	Oct 2012	2.23	yes	yes	1054-2523
12	M. Kidwai , Arti Jain; Zn[(L)Proline] ₂ : an eligible candidate for the synthesis of xanthenediones in water” <i>Applied organometallic Chemistry</i> 26, 528 (2012). https://doi.org/10.1002/aoc.2895	Aug 2012	3.77 3	yes	yes	0268-2605
13	Kidwai, Arti Jain, A. Sharma and R. C. Kuhad ; Ecofriendly approach for detection of phenols in water using Laccase from different fungi” <i>Water Science & Technology</i> 66, 385(2012). https://doi.org/10.2166/wst.2012.198	July 2012	2.43	yes	yes	0273-1223
14	M. Kidwai, Arti Jain and S. Bhardwaj Magnetic nanoparticles catalyzed synthesis of diverse N-Heterocycles” <i>Mol. Div.</i> 16, 121(2012). https://link.springer.com/article/10.1007/s11030-011-9336-z	Nov 2012	3.36 4	yes	yes	1573-501X
15	M. Kidwai, Arti Jain, A. Sharma and R. C. Kuhad First time reported enzymatic synthesis of new series of quinoxalines-A green approach” <i>Journal of Molecular Catalysis B: Enzymatic</i> Volume 74, Issues 3–4, February 2012, Pages 236-240 https://doi.org/10.1016/j.molcatb.2011.11.002	Feb 2012	2.26 1	yes	yes	1381-1177
16	M. Kidwai, Arti Jain and S. Bhardwaj A green oxidation protocol for the conversion of secondary alcohols into ketones using heterogeneous nanocrystalline titanium (IV) oxide in	2011	6.01	yes	yes	1751-8253

	polyethylene glycol” <i>Green Chemistry Letters and Reviews</i> , 1 (2011)195-202 https://doi.org/10.1080/17518253.2011.611824					
17	M. Kidwai and Arti Jain; Regioselective synthesis of 1,4-disubstituted triazoles using bis[(L)prolinato-N,O]Zn complex as an efficient catalyst in water as a sole solvent” <i>Applied organometallic Chemistry</i> 25, 620(2011). https://doi.org/10.1002/aoc.1816	2011 december	3.773	yes	yes	0268-2605
18	M. Kidwai, S. Bhardwaj, N. K. Mishra, Arti Jain A. Kumar and S. Mozumdar Application of mobilized Cu-nanoparticles as heterogeneous catalyst for the synthesis of α -amino phosphonates via A ² -P coupling” <i>Catal. Sci. Technol</i> 1, 426 (2011). https://doi.org/10.1039/C0CY00060D	2011	6.177	yes	yes	2044-4753
19	M. Kidwai, Arti Jain, R. Poddar and S. Bhardwaj; Bis[(L)prolinato-N,O]Zn in acetic acid-water: a novel catalytic system for the synthesis of β -amino carbonyls via Mannich reaction at room temperature” <i>Applied organometallic Chemistry</i> 25, 335(2011). https://doi.org/10.1002/aoc.1764	2011	3.773	yes	yes	0268-2605
20	M. Kidwai, Arti Jain and R. Poddar Zn[(L)proline] ₂ in water: A new easily accessible and recyclable catalytic system for the synthesis of pyrazoles” <i>Journal of organometallic chemistry</i> 696, 1939(2011). https://doi.org/10.1016/j.jare.2016.12.005	2011	2.369	yes	yes	0022-328X
21	M. Kidwai, Arti Jain and S. Bhardwaj 1, 4-addition of terminal alkynes to conjugated enones in water using green catalyst Bis[(L)prolinato-N,O]Zn - An environmentally benign	2011	2.936	yes	yes	1572879X

	protocol” <i>Catalysis letter</i> 141, 183(2011). https://link.springer.com/article/10.1007%2Fs10562-010-0451-8					
22	M. Kidwai, Arti Jain, Satendra Singh, Vishal nimyesh, pratibha.M.Luthra An investigatory study of antibacterial activity of functionalized spirooxindoles, <i>IJC-B Vol.53B(04)</i> , 399-411; http://hdl.handle.net/123456789/27898	Apr-2014	0.456	yes	yes	0975-0983

Conference Proceedings publication

S.no	Details (Authors, Book title, Article title, Year, page range of article)	Date of Publishing (DDMMYY)	Name of conference	Venue of conference	ISBN No
1	Arti Jain, Ritu payal and Priti Malhotra; Removal of Heavy Metals from Laboratory Wastewater Using Waste Precursors: A Sustainable Approach; International Journal of Chemical, Environmental & Biological Sciences (IJCEBS) Volume 5	2017	9 th international multi conference on chemical, environment and medical sciences (immccems’17); may 10-11, 2017	dubai	ISSN 2320–4087 (Online)
2.	Arti Jain and Priti Malhotra; Waste to Wealth Approach: Removing Toxic Heavy Metals and Organic Dyes from waste Water using Agricultural Waste; International Journal of Chemical, Environmental & Biological Sciences (IJCEBS) Volume 5, Issue 1 (2017)	2017	9 th international multi conference on chemical, environment and medical sciences (immccems’17); may 10-11, 2017	dubai	ISSN 2320–4087 (Online)
3.	Arti Jain, Ritu payal Estimation of sun protection factor (SPF) by using uv-visible spectrophotometer for cosmetic formulations; Yearly academic journal Kalindi college (2017), pp73-79; ISSN:23489014.	2017		Kalindi college	23489014

4	Arti Jain and Priti malhotra Removal of heavy metal ions from laboratory waste water by adsorption on to mesoporous carbon obtained from kitchen waster material. Conference Proceedings of national conference on Innovations in health and environment (NSHE-2018); pp-52-56;	2018	Innovations in health and environment	Daulat ram college	:978819298 1246
5	Arti Jain and Priti malhotra Green methodology for silica nanoparticle synthesis and nanocoating for stable and efficient organic transformations. Conference Proceedings of national conference on Innovations in health and environment (NSHE-2018); pp-74-77;	2018	Innovations in health and environment	Daulat ram college	:978819298 1246
6	Arti Jain and Priti malhotra Porous Silica nanoparticles from Rice Husk for the Elimination of Erichrome Black T (EBT) from Laboratory Waste Water, <i>Chapter in Green Chemistry and Environmental Sustainability</i> , published by Springer,	2018	<i>Green Chemistry and Environmental Sustainability</i> ,	Daulat ram college	ISBN: 978-981-10-8389-1, 2018, In Print.
7	Arti Jain, Ritu Payal and Priti Malhotra; Use of Cost Effective Kitchen Ingredients in Acid-Base Titrations: A Greener Approach, <i>Chapter in Green Chemistry and Environmental Sustainability</i> , published by Springer,	2018	<i>Green Chemistry and Environmental Sustainability</i> ,	Daulat ram college	ISBN: 978-981-10-8389-1, 2018, In Print.
8	Priti Malhotra, Arti Jain and Ritu Payal, Low-cost nanoparticles sorbent from modified agricultural waste efficient removal of Pb(II) from water, 159- 161	2016	National Conference in Chemistry: Environment and Harmonious Development	Shyam Lal College, University of Delhi	ISBN: 9789385824 012.
9	Priti Malhotra, Arti Jain, Avneet Kaur, and Ritu Payal Trapping the waste-Rice husk as an agent to remove heavy metal ions,	2016	National Conference on Biomedical and environment	Dyal Singh College, University of Delhi	ISBN: 9788180304 798

Conference Attended and Paper presentation

s. no	Type of Event	Name of Event	Venue of conference	Date of conference (Start date – End Date)	Attended	paper presented	No of papers presented
1	National conference	<i>Emerging Issues of Climate change: sustainability and economic implications</i>	<i>Sri Aurbindo College, University of Delhi</i>	21 st -22 nd October 2016.	Oral presentation	yes	1
2	National conference	<i>Emerging Challenges of environmental health, societies and policies</i>	Rajdhani College, University of delhi	15 th and 16 th February 2019.	Oral presentation	yes	1
3	International Conference	Green Chemistry and Environmental Sustainability (ICGC-2016)	Daulat Ram College, University of Delhi	17th to 18th November 2016.	Oral presentation	yes	1
4	<i>Consortium</i>	<i>2nd one day Lignocellulose Biotechnology consortium.</i>	<i>Microbiology Department University of Delhi, Delhi, India</i>	<i>12th Dec 2012</i>	Oral presentation	yes	1
5	Paper presentaion event	Tatva fest	<i>Delhi Technical University on</i>	<i>22nd Feb 2012</i>	Oral presentation	yes	1
6	On National science day, jointly organized by Indiam academy of sciences, Banglore and Indian national science academy, delhi on 28 th February 2018 at INSA delhi	National science day	INSA	on 28 th February 2018 at INSA delhi	Poster presentation	yes	1
7	National Conference	"Innovations in Sciences and Emerging Challenges in Health and Environment" (NSHE-2018)	Daulat Ram College, University of Delhi	20 March 2018	Oral presentation	yes	1

8	6 th world congress on nanomedical sciences	Chemistry biology interface : synergistic in new frontiers (CBISNF-2019) and science and technology for the future mankind	jamai hamdard and university of delhi	7 th -9 th Jan 2019 at vigyan Bhawan.	Poster presentation	yes	1
9	National conference	Recent trends and advancement in chemical sciences	conference centre, University of delhi	29 th -31 st march 2019..	Poster presentation	yes	1
10	National conference	Innovations in chemistry Laboratory Teaching	Zakir Hussain College	8 th -9 th Feb 2017	Poster presentation	yes	1
11	International Conference	9 th International Conference on Waste Management(ICW M'17)	Dubai	10 th -11 th May2017	Poster presentation	yes	1
12	National Seminar	A Pardigm Shift towards women empowerment	Kalindi College	3 rd -4 th Feb 2017	Poster presentation	yes	1
13	National Symposium	Lifestyle and reproductive health challenges	Daulat Ram College	29 th March 2017	Poster presentation	yes	1
14	National conference	Environmental Sustainability in waste water management	Sri Venkateshwar College	19 th -20 th Jan 2017	Poster presentation	yes	1

Resource Person (Conference/seminar/ workshop/training programme/ educational trips)

S.No	Type of Event	Name of Event	Venue	Date of Event	State your role: Convener/ Member organizing committee / Speaker/ Coordinator	Duration of Activity	No of participant in the programme

1	Sdp	Sdp On Exploring Chemicals In Natural Products	DRC	2019	Resource Person	3-4 Hours Per Day	~30
2	Inspire Science Camp	Inspire Science Camp	DRC	17-21 Dec 2018	Resource Person, Member Of Organizzing Committee	8 Hours Per Day	~ 200
3	Workshop	Translating Green Chemistry Principals Towards environmental Sustainability	K R M University	20 th Nov 2018	Speaker And Organizer	8 Hours	~100
4	SDP	Sdp On Exploring Everyday Chemistry	DRC	26 th Dec 2018	Resource Person	3-4 Hours Per Day	~30
5	SDP	Chemistry At The Helm Of Essential Oils, Fragrances And Wellness	DRC	4-5 th June 2018	Resource Person	3-4 Hours Per Day	~30
6	SDP	Drug Analysis” And “Estimation Of Vitamin C In Fruits, Vegetables And Beverages	DRC	11 th , 12 th , 22 nd , 23 rd June 201	Resource Person	3-4 Hours Per Day	~30
7	SDP	Instrumentation And Analytical Clinical And Computational Chemistry	DRC	31 st May, 1 st -2 nd June 2017	Resource Person	3-4 Hours Per Day	~30
8	SDP	Green Formulation Of Cosmetics And Perfumeries	DRC	16 th , 17 th ,18 th Dec 2015	Resource Person	3-4 Hours Per Day	~30
9	SDP	Enhancing learning through ICT tools	DRC	26-27 th Nov 2022	Resource Person	3-4 Hours Per Day	~30
10	SDP	Enhancing learning through ICT tools	DRC	17-19 th Dec 2021	Resource Person	3-4 Hours Per Day	~30
11	SDP	Online summer internship – on “Research methodology in Chemistry” for 15 days	DRC	16 th May-30 th May 2020	Co-Convenor; Resource Person	3-4 Hours Per Day	~120

FACULY DEVELOPMENT PROGRAMMES

1. Participated in One-Month Online National Faculty Induction Programme organized by Guru Angad Dev Teaching Learning Centre, a centre under PMMMNMTT, MoE, Government of India from 25th February to 27th March, 2023 and received certificate with A grade.

2. Attended faculty empowerment workshop entitled “WGB1- Workshop on basic ICT skills for educators (e-content development and assessment tools)” held at guru angad dev teaching learning centre of MHRD at SGTB Khalsa college, DU on 24th-25th October 2016
3. Attended faculty empowerment workshop entitled “WGB2- National Workshop on subject specific ICT skills for Chemistry educators” held at guru angad dev teaching learning centre of MHRD at SGTB Khalsa college, DU on 19th January 2017
4. Attended Faculty Development Program entitled "Chemistry of Life to Chemistry of Diseases: Understanding Clinical Biochemistry" from 15 June to 22 June 2017.
5. Attended Faculty Development Program entitled “Skill enhancement at institutions of higher learning : Training today for tomorrow from 7th Jan -13th Jan 2019.
6. E-Faculty Development Program on Empowering Teaching-Learning Process using Google organized by Department of Commerce, Daulat Ram College from 21-7-2020 to 23-7-2020.
7. E-Faculty Development Program on Skilling Teachers for online education organized by UKA Tarsadia University from 2-6-20 to 6-6-20
8. International E-Faculty Development Program on Novel materials for energy and Biomedical (COVID 19) healthcare application organized by Department of science and humanities, M.Kumarsamy College of engineering, Karur from 11-5-20 to 16-5-20.
9. E-Faculty Development Program on on Scilab in association with IIT-Bombay from 15-6-20 to 19-6-20.
10. Participated in SWAYAM online arpit course in chemistry for higher education. (exam held on 16.2.2020)

Membership of Professional Bodies

S.No	Type of Membership	Organisation	Year of Membership(Start Date)
1	Member	SOCIETY FOR PROMOTION OF EDUCATION AND SCIENCE (SPES)	LIFE MEMBERSHIP (LF NO-54/2019)