

1. Details of the Teacher/ Academic:

Name	: Prof. Lalita S Kumar
Date of Birth	: 29.09.1961
Date of Joining in IGNOU	: 18.01.1989
Current Designation	: Professor
Pay Scale as on date	: 199600/
Highest Educational Qualifications & Discipline	: Ph.D. (Chemistry), 1987; MADE, 2000

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:

Name of the recipient	Honour /Award/ Fellowship name/ membership of Professional body/ Statutory body	Agency name /Name of statutory body/ institution/ Apex body	Period
Raunaq, Lalita S Kumar, S. V. Arya, Neera Singh and Shashi Singh	Best Poster in National Symposia	Indian Agricultural Research Institute, Delhi	2015
Lalita S Kumar and Sanjiv Kumar	Gold medal for Innovation in Open and Distance learning” in sharing	IGNOU, in the 22 nd Convocation	2011
B.I. Fozdar and Lalita S Kumar	“Gold medal for the Best Research Paper award”	IGNOU, in the 19 th Convocation	2008
Lalita S Kumar	Member	Academic Council (IGNOU)	2001-2003
Lalita Nayal (Unmarried status)	Junior Research Fellowship, NET exam	CSIR, UGC for NET exam	1984-1986
Lalita Nayal (Unmarried status)	Senior Research Fellowship	CSIR, UGC for NET exam	1987-1988
Lalita S Kumar	Member	School Board (School of Tourism and Hospitality Services Management)	2016-2018
Lalita S Kumar	Member	School Board (School of Agriculture)	2013-2015
Lalita S Kumar	Member	School Board (School of Engineering and Technology)	2012-2014
Lalita S Kumar	Member	School Board (School of Sciences)	2006-2008, 2010-2012, 2016- till date
Lalita S Kumar	Member	School Board (School of Agriculture)	September, 2023
Lalita S Kumar	Member	School Board (SOITS)	October, 2024
Lalita S Kumar	Life Member	Indian Society of Analytical Scientists	2000-till date
Lalita S Kumar	Life Member	National Magnetic Resonance Society	2000-till date

3. Books/Book Chapter:

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN No

S. No .	Name of Author1 / Editor 1, & Co-author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1	Manhas, N., Kumar, L. S., & Adimule, V.	“Early-Stage Diagnosis of Breast Cancer: Amelioration in Approaches” in Drug and Therapy Development for Triple Negative Breast Cancer	WILEY-online library	WILEY-VCH GmbH	2023	1-34	Print: 9783527351756 Online: 9783527841165 https://doi.org/10.1002/9783527841165.ch1
2	V.K. Ahluwalia, Lalita S. Kumar and Sanjiv Kumar	Chemistry of Natural Products: Amino Acids, Peptides, Proteins and Enzymes	New Delhi	Ane Books India	2006	249	81-8052-089-7 (Pb) 81-8052-106-0 (Hb)
3	Lalita S Kumar and Sanjiv Kumar (Eds. Sujata Santosh and C.K. Ghosh)	Quality Assured Delivery of PGDAC Programme using Vedyadhara Open e-Learning Environment (VOLE) in the Book “Creative Sparks of Innovation”	New Delhi	MPDD, IGNOU, New Delhi	2013	87-92 (Total No. of Pages 287)	978-81-266-6603-4

4. Research Articles/Publications:

S.N o	Author/ Co-author (if any)	Title	Name of Journal	Volume	Page no. (s)	Year	ISSN No
1	Nidhi Manhas ^a , Lalita S. Kumar, Pankaj Kumar, Vandna Sharma , Rajeev S. Joshi , Rangappa Keri, A.K. Swetha Vinayak Adimule	Enhanced photoluminescence dynamics, fluorescence decay and distinctive electrical properties of Eu ₂ O ₃ nanoparticles decorated liquid crystal nanocomposites	<i>Materials Characterization</i>	224	115083	June 2025	https://www.sciencedirect.com/science/article/pii/S104458032503729
2	Jagannadha Rao Alla, Santosh Kumar Badampudi,	Design, synthesis and biological evaluation of indazole	<i>Journal of Molecular structure</i>	1325	140949	(15 th March 2025)	https://www.sciencedirect.com/s

	Desu Gayathri Niharika, Amarendar Reddy M, Subrahmanyewara Rao N, Rashmi Kumari, Lalita S Kumar	carboxamide analogues as potential anticancer agents					cience/article/abs/pii/S0022286024034562?via%3Dihub
3	Prasanta Kumar Nag, Titas Kumar Mukhopadhyay, Lalita S. Kumar	Evaluating specific rotation of flexible chiral drugs using density functional theory and conformational studies	<i>Journal of the Indian Chemical Society</i>	102	101584 Feb 2025	https://www.sciencedirect.com/science/article/pii/S0019452225000196	
4	Smriti Rana, Yogesh Kumar, Rahul Kaushik, Lalita S. Kumar	Recent Developments in Metal-Organic Frameworks for Water Purification: A Mini Review	<i>Chemistry Select</i>	Volume 9, Issue 35	e20240 3309 2024	e2024033 09 https://doi.org/10.1002/slct.202403309	
5	Manhas, N., Kumar, L. S.*,& Adimule, V.	Photoluminescence and Supercapacitive Properties of Carbon Dots Nanoparticles: A Review.	<i>Journal of Metastable and Nanocrystalline Materials,</i>	37	1-22 2023	http://dx.doi.org/10.4028/p-LpI6yW	
6	Manhas, N., Adimule, V.* , Lakshminarayana, P., Keri, R., Kumar, L.S.**, Bathula, C.	Utilization of Co^{2+} Doped Eu_2O_3 Nanostructures and their Effect on the Dielectric and Photoisomerization of Liquid Crystals	<i>Physics of Fluids</i>	35 (10)	107-112 2023	https://doi.org/10.1063/5.0171578	
7	Kant, R.; Saini, K.; Upadhyay, R.; Amri, N.; Kumar, R.; S Kumar, L.	Design, Synthesis and Characterization of Novel 1H-1,2,3- Triazole Quinoline- Isatin Tethered Conjugates	<i>Asian J. Chem.</i>	35	1269– 1275. 2023	https://doi.org/10.14233/ajchem.2023.27873	
8	Saini, K.; Upadhyay, R.; Kant, R.; Vajpayee, A.; Jain, K.; Kumar, A.; S Kumar, L.; Kumar, R.	Design, Synthesis, Molecular Docking and DFT Studies on Novel Melatonin and Isatin Based Azole Derivatives.	<i>RSC Adv.</i>	13	27525– 27534 2023	https://doi.org/10.1039/D3RA05531K	
9	Kant, R.; Saini, K.; Upadhyay, R.; , Singh, Y.; Reddy, V.; Singh, S.; Kareem , M.; Dasegowda, K.; Prabhavati, H.; Kumar, R.; Park, J.; and S Kumar, L.	Design, Synthesis, In-Silico Screening and Antiproliferative Activity of Novel 1,2,3 Triazole Tethered Dibenzosuberane Conjugates.	<i>Biotechnol Bioproc E</i>	28	761-773 2023	https://doi.org/10.1007/s12257-023-0077-5	

10	Rakesh Kumar, Dhiraj Kumar, Ravindra Kumar Upadhyay, Nidhi Deswal, Priya Takkar, Abdul Kareem, Vinod Kumar, Lalita S Kumar,	Design, Synthesis, Antimicrobial Screening and Docking Studies of Newer 1,4-Dihydropyridine tethered Chalcone Hybrids	<i>Chemistry Select</i>	7(41)		2022	e2022029 28 https://doi.org/10.1002/slct.202202928
11	Rakesh Kumar, Neha Yadav, Harshita Jain, Nidhi Deswal, Ravindra Kumar Upadhyay, Ankita Leekha, Anita Kamra Verma, Abdul Kareem, Rajasekhar Chikati, and Lalita S Kumar	Microwave-Assisted Synthesis of 4-Aryl-1,4-dihydropyridines as Potent Anticancer Agent and Their In-Silico Studies	<i>Chemistry Select</i>	7 (19)		2022	2365-6549 e202104129
12	Yogesh Kumar, Javaid Shabir, Padmini Gupta, Lalita S. Kumar	Design and Development of Amine Functionalized Mesoporous Cubic Silica Particles: A Recyclable Catalyst for Knoevenagel Condensation	<i>Catalysis Letters</i>	152	1506-1516	2022	1011-372X
13	Y. Kumar, R. Kaushik, S. Rani, S. Rafat, J. Shabir, K. Dev, L.S. Kumar	Curcumin immobilized metal organic framework based fluorescent nanoprobe for selective sensing and bioimaging of Fe (II)	<i>Mater. Today Commun.</i>	(28)	102563	2021	2352-4928
14	Reviewed	Title: "Utilization of waste derived from the silicon carbide grinding sludge and stone sludge as silicon aluminum source for the synthesis of the amine functionalized mesoporous humidity control material"	Journal Name: <i>Journal of Material Cycles and Waste Management</i> (Springer)			2021	
15	Reviewed	Title: "Comparison of the two carbon allotropes as solid support: catalytic efficiency of the supported metalloporphyrins for the aerobic oxidation of	<i>Chemistry Select</i> (Wiley)			2021	

		alcohols"					
16	Yogesh Kumar, Swati Rani, Javaid Shabir, and Lalita S. Kumar	Nitrogen-Rich and Porous Graphitic Carbon Nitride Nanosheet Immobilized Palladium Nanoparticles as Highly Active and Recyclable Catalysts for the Reduction of Nitro Compounds and Degradation of Organic Dyes	<i>ACS Omega</i>	5 (22)	13250-13258	2020	
17	Ismail, I. M., Prasad, M., Kumar, L. S.	Application of In Situ Generated Chiral Oxazaborolidine Catalyst for the Enantioselective Reduction of Prochiral Ketones, http://dx.doi.org/10.31638/IJPRS.V7.I4.0008	International Journal for Pharmaceutical Research Scholars	7(4)	31-39	2018	
18	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Design, Synthesis and Characterisation of Novel Amine Derivatives of 5-[5 (Chloromethyl)-1, 3, 4-Oxadiazol-2-yl]-2-(4-Fluorophenyl) Pyridine as a New Class of Anticancer Agents	Bangladesh Journals online, Bangladesh/Dhaka University Journal of Pharma. Sciences	16(1)	11-19	2017	
19	Raunaq, Lalita S. Kumar, SatyaVir Arya and Shashi Bala Singh	Adsorption-Desorption of Tebuconazole in Three Soils	Pesticide Research Journal	29(1)	82-87	2017	
20	Srinivasa Rao Y, Sivalakshmi Devi A, Sudarshan Rao, K Nageswara Rao K, Anantha Lakshmi P V, Lalita S Kumar	Synthesis and Characterization of Process-related impurities in Azelnidipine	North Asian International research Journal	(2)	37-59	2016	
21	Adimule Vinayak, Medapa Sudha, Adarsha Haramballi Jagadeesha and Kumar Sanjeev Lalita	Design, Synthesis, Characterization and Cancer Cell Growth-Inhibitory Properties of Novel Derivatives of 2-(4-Fluorophenyl)-5-(5-Aryl Substituted-1, 3, 4-Oxadiazol-2-yl) Pyridine	British Journal of Pharmaceutical Research	7(1)	34-43	2015	
22	Srinivasa Rao Y, Chandan Kumar	Identification, Isolation and	North Asian International	(1)	92-107	2015	

	V, Sivalakshmi Devi A, Anantha Lakshmi P V, Lalita S Kumar	Characterization of Process related Impurities in Irbesartan	research Journal				
23	Srinivasa Rao, A. Sivalakshmi Devi, V. Chandan Kumar, K. Nageswara Rao, G. Tataji, P. V. Anantha Lakshmi, Lalita S. Kumar	Identification and Characterization of Impurities in Lisinopril	International Journal of Pharmaceutical Chemistry Research	4(3)	1-11	2015	
24	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar	Synthesis of N-{[(2, 4 dichloro phenyl)-1, 3, 4-oxadiazole-2-yl] methyl} amine derivatives as anticancer precursors	International Journal of Medicinal Chemistry and analysis/ India	4(4)	231-235	2014	
25	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, Characterization and Cytotoxic evaluation of Novel derivatives of 1-[2-(Aryl substituted)-5-(4'-Fluoro-3-methyl biphenyl-4-yl)-[1, 3, 4] oxadiazole-3-yl]-ethanone	International Journal of Pharmaceutical Chemistry	4(3)	88-91	2014	
26	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar	Design, synthesis, characterization and anticancer properties of novel derivatives of 1-[2-(aryl substituted)-5-(4-methoxy biphenyl-4-yl)-[1, 3, 4] oxadiazole-3-yl]-ethanone	International Journal of Pharma Sciences.	4(5)	713-717	2014	
27	Vinayak Adimule, Sudha Medapa, Adarsha HJ, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, characterization & cytotoxic evaluation of novel derivatives of 1, 3, 4-oxadiazole containing 5-phenyl thiophene moiety	Journal of Pharmacy and Biological Sciences	9(5)	42-48	2014	
28	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar	Novel substituted phenoxy derivatives of 2-chloro-n-{5-[2-(4-methoxy phenyl)-pyridine-3yl]-[1, 3, 4] thiadiazole-2-yl}-acetamides: Synthesis, characterization and in vitro anticancer properties	Journal of Pharmaceutical, chemical and biological sciences	2(2)	130-137	2014	
29	Vinayak Adimule, Sudha Medapa, papaya JB,	Synthesis, characterization & cytotoxic	Journal of Pharma Research	3(9)	176-179	2014	

	Adarsha HJ, Prakash Kumar Rao, Lalita. S. Kumar	evaluation of 2-(4-fluorophenyl) substituted pyridine containing 1, 3, 4-oxadiazole moiety.					
30	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Design, Synthesis and Cytotoxic Evaluation of Novel Amide Derivatives of 5-[2-(4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2-Amine	Pharmanest, An International Journal of Advances in Pharmaceutical Sciences	5(1)	1761 - 1768	2014	
31	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Synthesis, Characterization And in vitro Cytotoxic Evaluation of Novel Amide Derivatives Of 5-[2-(4- Methoxy phenyl) Pyridin-3-Yl]-1, 3, 4-Thiadiazol-2-Amine	World Journal of Pharmaceutical Research	3(6)	525-535	2014	
32	Vinayak Adimule, Sudha Medapa, padmashreekulkarni, Adarsha HJ Prakash Kumar Rao, Lalita S Kumar	Synthesis, Characterization and Cytotoxic Evaluation of Novel Schiff Base Derivatives of 5-[2-(4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2-Amine	American Journal of Pharma Tech Research, India	4(6)	328-337	2014	
33	Vinayak Adimule,Sudha Medapa, papaya JB, Adarsha HJ, PK Rao, Lalita S Kumar	Synthesis and Cytotoxic evaluation of Novel 2-(4-N, N-Dimethyl) pyridine containing 1, 3, 4-oxadiazole moiety	Asian Journal of Biomedical and Pharmaceutical Sciences	04(37)	1-5	2014	
34	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S Kumar	Design, Synthesis, Characterization and Anticancer Properties of Novel 2-Chloro-N-(Aryl Substituted) Acetamide Derivatives of 5-[2-(4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4-Oxadiazole-2-Thiol	International Journal of Drug Development and Research	6(4)	188-195	2014	
35	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Synthesis, Characterization and Cytotoxic Evaluation of Novel Schiff Base Derivatives of 5-[2-(4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2-Amine	Indo American Journal of Pharmaceutical Research, India-USA	04(12)	5705-5710	2014	
36	Vinayak Adimule, Sudha Medapa, Prakash	Design, Synthesis, Characterization and Cytotoxic Evaluation	International Bulletin of Drug Research	4(7)	84-93	2014	

	Kumar Rao, Lalita S Kumar	of Novel 2-Chloro-N-(Aryl Substituted) Acetamides Derivatives of 5-[2-Phenyl Pyridin-3-yl]-1, 3, 4-Oxadiazole-2-Thiol					
37	Vinayak Adimule, Sudha Medapa, Adarsha HJ, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, Characterization, in vitro Anticancer Properties of 1-{5- Aryl-2-[5-(4-Fluoro- Phenyl)-Thiophen-2- yl]-[1, 3, 4] Oxadiazol-3-yl}- Ethanone	International Journal of Pharma Research and Review	3(12)	20-25	2014	
38	Vinayak Adimule, Sudha Medapa, Adarsha HJ, Padmashree Kulkarni, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, characterization of some novel 1, 3, 4- oxadiazole compounds containing 8-hydroxy quinolone moiety as potential antibacterial and anticancer agents	International Journal of Pharmacological Research	4(4)	180- 185	2014	
39	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita. S. Kumar	Synthesis, Characterization and Cytotoxic evaluation of Novel derivatives of 1-[2- (Aryl substituted)- 5-(4'-Fluoro-3- methyl biphenyl-4- yl)-[1, 3, 4] oxadiazole-3-yl]- ethanone	International Journal of Pharmaceutical Chemistry	4, No. 3		2014	
40	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Design, Synthesis and Cytotoxic Evaluation of Novel Amide Derivatives of 5-[2- (4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2- Amine	UniversitiSains Malaysia /Malesian Journal of Pharmaceutical Sciences	5(5)	1761 - 1768	2014	
41	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Synthesis, Cytotoxic evaluation of Novel Methyl Amine Derivatives of 2-(4- Fluorophenyl) substituted Pyridine Containing 1, 3, 4- Oxadiazole Moiety	Wiley online library, USA/Journal of heterocyclic Chemistry	9(5)	42-48	2014	
42	Lalita S Kumar and Sanjiv	Quality Assured Delivery of Post	Creative Sparks of Innovation,		87	2013	

	Kumar	Graduate Diploma in Analytical Chemistry using Vedyadhara Open e-Learning Environment (VOLE), Article	NCIDE, IGNOU				
43	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita. S. Kumar	Synthesis, characterization and anticancer activity of Schiff base derivatives of 5-(2-phenoxy pyridine-3-yl)-1, 3, 4-thiadiazole-2-amine.	International Research Journal of Pharmacy		62-66	2013	
44	Lalita S Kumar, Biplab Jamatia, A. K. Aggarwal, S. Kannan	Mobile Device Intervention for Student Support Services in Distance Education Context – FRAME Model Perspective, EURODL	European Journal of Open, Distance and E- Learning	II	1-9	2011	
45	Lalita S. Kumar and Bharat Inder Fozdar	Course Evaluation: A Holistic Approach	Indian Journal of Open and Distance Learning	18 (2)	63-76	2009	
46	Bharat Inder Fozdar, Lalita S Kumar and Anurag Saxena	In-service Teacher Training Programme Effectiveness: An analysis of learner opinion on the effectiveness of the Programme	Malaysian Journal of Distance Education	9(2)	65-87	2007	
47	Bharat. I. Fozdar, Lalita S Kumar	Mobile Learning and Student Retention	International Review of Research in Open and distance Learning	8(2)	1-18	2007	
48	Bharat. I. Fozdar, Lalita S Kumar	A Study of the Factors Responsible for the Dropouts from the B.Sc. Programme of IGNOU	International Review of Research in Open and Distance Learning	7(3)	1- 15	2006	
49	Bharat I. Fozdar, Lalita S Kumar	Teaching Chemistry at Indira Gandhi National Open University	Turkish Online Journal of Distance Education-TOJDE	7 (2)	82-89	2006	
50	F.J. Maria Pushparaj, S. Kannan, L. Vikram, Lalita S. Kumar and K.S. Rangappa	Alkaline hexacyanoferrate (III) oxidation of substituted 4-oxo acids: a mechanistic study	J. Phys.Org. Chem.	18	1042-1049	2005	
51	Sanjiv Kumar and Lalita S Kumar	SI Units for Chemists	Chemistry Education Review	14(4)	25-32	1999	
52	V.K. Ahluwalia, Lalita Nayal, Shashi Bala and	2-Phenyl-6-cinnamoylchromans as Synthones for 2-	Indian J. Chem	27B	72-73	1988	

	Sudha Raghav	Amino and 2-Mercapto-4, 5-substituted thiazoles					
53	V.K. Ahluwalia, Lalita Nayal and Shashi Bala	Synthesis of Some 2-Amino-6-aryl-4-dihydrobenzopyran-1-pyrimidines as potential antifungal & antibacterial agents	Indian J. Chem.	27B	193-194	1988	
54	V.K. Ahluwalia, Lalita Nayal and A.K. Tehim	New routes to the Synthesis of 8-(dihydrocinnamoyl) dihydrocoumarin derivatives	Indian J. Chem	27B	70-71	1988	
55	V.K. Ahluwalia, Lalita Nayal, Shashi Bala and Sudha Raghav	Acid Catalysed Condensation of Isoprene with hydroxypropiophenones : Synthesis of 2,2-dimethylchromans and some new 2-amino & 2-mercaptop-4-aryl-5-methylthiazoles	Indian J. Chem.	27B	629	1988	
56	V.K. Ahluwalia, Lalita Nayal, Neelu Kaila, Shashi Bala Singh and A.K. Tehim	Synthesis & Antimicrobial Activity of Substituted 3,4-Dihydro-2H-1-benzopyrans	Indian J. Chem.	26B	384	1987	

5. Policy Documents Reports/ Mimeo: Nil

S. No.	Title	Institution/ Agency	Year
1.			
2.			
3.			

5. MOOCs/ eSLMs/ eModules developed :

Unit - I: Mechanism of Organic Reactions, B. Sc. 1st Year, Paper code, CH 102, Organic Chemistry-I							
S. No.	Author/ Co-author (if any)	Title	Cred its	Level	Host Portal: (SWAYAM/ NPTEL/ NMEICT/ ePG Pathshala/	Year	Weblink
1	Prof. Lalita S Kumar	Mechanism of Organic Reactions-I: Basic Concepts		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=XnD7iMR-hsk
2	Prof. Lalita S Kumar	Mechanism of Organic Reactions-II: Nucleophilicity and Types of Organic Reactions		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=iCooLGQK-M4
3	Prof. Lalita S Kumar	Mechanism of Organic Reactions-III: Types of Organic Reactions		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=1CMyPwGrmk0

		and intermediates					
4	Prof. Lalita S Kumar	Mechanism of Organic Reactions-IV: Energy Considerations in Reaction Mechanism		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=EbYdNTCmE-o
5	Prof. Lalita S Kumar	Mechanism of Organic Reactions-V: Determination of Reaction Mechanisms		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=wBw_Sz8O3k0

Unit – VII, Paper – II: Alkyl and Aryl Halides

1	Prof. Lalita S Kumar	Alkyl and Aryl halides-I: Classification and Nomenclature		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=b6cNSmRAS9k&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=35&t=112s
2	Prof. Lalita S Kumar	Alkyl and Aryl halides-II: Preparation of Alkyl Halides-I		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=8S6SU_A2V0g&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=35
3	Prof. Lalita S Kumar	Alkyl and Aryl halides-III: Preparation of Alkyl Halides-II		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=ebeSQYI7HyU&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=36
4	Prof. Lalita S Kumar	Alkyl and Aryl halides-IV: Reactions of Alkyl Halides – I		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=EkJRM2q7L14&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=37
5	Prof. Lalita S Kumar	Alkyl and Aryl halides-V: Reactions of Alkyl Halides – II		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=V2AWGt2LRVs&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=38
6	Prof. Lalita S Kumar	Alkyl and Aryl halides-VI: Structure, Preparation and Properties of Aryl Halides		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=SLZEMaiQxo0&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=39
7	Prof. Lalita S Kumar	Alkyl and Aryl halides-VII: Reactions of Aryl Halides		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/watch?v=uZVjj6Jvsp4&list=PLOnJQiDsowogkSRUXJZe7552OJosPLzx9&index=40

6. Presentation/Invited talk/Chair in National or International Seminar/Conference/Workshops (Please do not mention if it is only participation without presentation)

S N	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference/ Workshop	City	Date and Year
1.	V. Mallikarjuna Sarma , K. Subramany	Photocatalytic Properties Of Transition Metal Doped	PG & Research Deptt of Physics Seethalakshmi Ramaswami	2nd International Virtual Conference on Materials Science and Applications	Tamil Nadu, India	1 st -2 nd Feb 2024

	am Lalita S Kumar	Cus Magnetic Nanoparticles Towards Waste Water Treatment	College	(ICMSA-2024)		
2.	Smriti Rana, Yogesh kumar, Rahul Kaushik, Lalita S Kumar	“Photocatalytic Degradation of Dye in Wastewater by Hybrid Zinc Metal-Organic Framework”	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
3.	Mallikarjun a Sarma, Subramany am and Lalita S Kumar	“Photocatalytic Degradation of Profenofos Pesticide in Agricultural Runoffs by Pristine ZnO Nanostructures”	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
4.	Prasanta Kumar Nag and Lalita S Kumar	“Conformation Studies Through DFT Scanning of Dihedral Angle and Estimation of Specific Rotation of Chiral Drugs”	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
5.	Brijesh Kumari, Lalita S Kumar, Devendra Dhami	“Chemical Composition of Essential Oils of <i>Erigeron annuus</i> Flowers: A Comparative Account”	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
6.	Jagannadha Rao. Alla, Santosh Kumar and Lalita S Kumar	Three Way Synthesis of Indazole Based Benzamides	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
7.	Smriti Rana, Yogesh kumar, Rahul Kaushik, Lalita S Kumar	“Immobilization of terpyridine moiety with amine- functionalized ZIF-8 for enhanced dye degradation in aqueous medium”	International Conference on Smart Consumption and Sustainable Living (ICSCSL- 2023)	Miranda House, University of Delhi	New Delhi	August 24-25, 2023.
8.	Nidhi Manhas, Dr. Vinayak Adimule , Dr. Parashuram	Utilization of Co ²⁺ Doped Eu ₂ O ₃ Nanostructures and their Effect on the Dielectric and	Manipal Institute of Technology, Bengaluru in association with National Institute of Technology, Uttarakhand	International conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFMN-2023)	Bengaluru	July 12- 14, 2023

	L, Dr. Rangappa Keri, Dr. Lalita S Kumar , Dr. Chinna Bathula	Photoisomerization of Liquid Crystals				
9.	Jagannadha Rao. Alla, Santosh Kumar and Lalita S Kumar	Synthesis, Characterisation and Biological Evaluation of Some Indazole Derivatives”	International conference on Designing a sustainable future: Advances and opportunities in green chemistry (ICGC - 2023)	University of Ladakh, Green Chemistry Network Centre and Indian Society of Analytical scientists	Leh, Ladakh	3rd to 5th July, 2023.
10.	Prasanta Kumar Nag and Lalita Kumar	Calculation of Chiroptical Properties of Some Chiral Drug Molecules using the Density Functional Theory	International Conference on Designing a Sustainable Future: Advances and Opportunities in Green Chemistry (ICGC - 2023)	University of Ladakh, Green Chemistry Network Centre and Indian Society of Analytical scientists	Leh, Ladakh	3 rd to 5 th July, 2023.
11.	Nidhi Manhas, Dr. Vinayak Adimule , Dr. Parashuram L, Dr. Rangappa Keri, Dr. Lalita S Kumar , Dr. Chinna Bathula	The Influence of Co ²⁺ : SeO ₂ Liquid Crystal Nanostructures on Enhanced Photoluminescence and Photo isomerization Properties	Mahatma Gandhi University, Kottayam, Kerala, India	International Hybrid Conference on Nano Structured Materials and Polymers (ICNP)	Kerala, India	May 12-14, 2023.
12.	Ravi Kant and Lalita S Kumar	‘Synthesis of Novel Triazole Substituted Dibenzosubranes as Multidrug Resistance Modulators’	National Conference on ‘Current trends and Futuristic Challenges in Chemical Sciences’	Department of Chemistry, Osmania University, Hyderabad	Telangana	29 th – 30 th July 2022.
13.	Lalita S Kumar (Session Chair)	Biodegradation & Bioremediation	School of Interdisciplinary and Trans-disciplinary Studies, IGNOU	International Conference: Environmental and Ecological Sustainability: Engaging the Stakeholders	IGNOU, New Delhi	4-5 October, 2018
14.	Lalita S Kumar (Session Chair)	Environmental Pollution: Miscellaneous	School of Interdisciplinary and Trans-disciplinary Studies, IGNOU	International Conference: Environmental and Ecological Sustainability: Engaging the Stakeholders	IGNOU, New Delhi	4-5 October, 2018
15.	Lalita S	Research Ethics	UGC-HRD Centre	UGC sponsored	Hissar,	November

	Kumar		(Academic Staff College) G. J. University of Science & Technology	Refresher course on Research Methodology	Haryana	, 2018
16.	Lalita S Kumar	Education and Career in Chemical Sciences	School of Sciences, Indira Gandhi National Open University	DST Vigyan Jyoti Residential Prog- Breaking Stereotypes in the Field of S & T for Girl Students through Motivational Guidance	New Delhi	June, 2018
17.	Lalita S Kumar and B.I. Fozdar	Researching Student Workload	STRIDE, IGNOU	Course work on Research Methodology	New Delhi	September , 2018
18.	Lalita S Kumar and B.I. Fozdar	Researching Student Workload	STRIDE, IGNOU	Course work on Research Methodology	New Delhi	December , 2017
19.	Lalita S Kumar and Sanjiv Kumar	Content Development: Interactive PDF	STRIDE, SOCIS and RSD, IGNOU	Refresher Programme on ICT in ODL for the teachers and Academics of IGNOU	New Delhi	August, 2016
20.	Raunaq, Lalita S Kumar, SatyaVir Arya, Neera Singh & Shashi Bala Singh	Agrochemicals for food and environmental safety”	Sorption Desorption Behaviour of Tebuconazole In Indian Soils Of Different Agro Climatic Regions, Poster	National symposium	IARI, Delhi	2015
21.	Lalita Kumar, Sanjiv Kumar, Kalyana- puram Srivathsan	Early Experiences with a Community Driven Open Education management System	7 th Pan Commonwealth Forum on Open Learning	International Conference Centre, Abuja	Nigeria	2-6 December , 2013
22.	Lalita S Kumar and J A Farooqi, Convenors	Chemistry: Education and Research Frontiers	Raman Chair, SOS and Chemistry Discipline, SOS, IGNOU, Maidan Garhi, New Delhi,	National Conference celebrating International Year of Chemistry 2011	New Delhi	13th-14th October, 2011
23.	Lalita S Kumar and Manisha, Poster presentatio n	National Conference on "Chemistry: Education and Research Frontiers	Raman Chair and School of Sciences, IGNOU	Convention Centre, IGNOU, Maidan Garhi, New Delhi, India,	New Delhi	13th-14th October, 2011
24.	Lalita S Kumar	“Embedded Workplace Training for a Skill Development Programme: Critical Factors	Indira Gandhi National Open University, Delhi	International Conference, 6 th Pan- Commonwealth Forum on Open Learning: Skill Development	Kochi, India	24 th -28 th Nov. 2010

		for Effective Implementation”				
25.	Lalita S Kumar	Alternative models of course development in the changing scenario of ODL	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	New Delhi	March 22 nd to 27 th 2010
26.	Lalita S Kumar as a panelist along with members	Consolidation of Learner Support Services	RSD, IGNOU	Learners' Conference	New Delhi	16 th May 2010
27.	Lalita S Kumar	Alternative models of course development in the changing scenario of ODL	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	New Delhi	March 22 nd to 27 th 2010
28.	Lalita S Kumar & Biplab Jamatia	International Conference on Distance Education and Open Learning	Organised by IACSIT, (DEOL 2009)	Mobile Phones as Effective Learner Support Devices: A Case Study	NTU, Singapore	9 th to 11 th October, 2009
29.	Joint Coordination with NCIDE	Question bank for AEC-01 course	NCIDE, IGNOU	On Demand Examination	New Delhi	7 th to 9 th Sept., 2009
30.	Lalita S Kumar and B I Fozdar	A study of the Factors Responsible for Dropout of B.Sc. Students of IGNOU	The International Council on Distance Education (ICDE), IGNOU	International Conference on “Open and Distance Education	New Delhi, India	19-23 Nov. 2005

7. Consultancy assignment (if any): Nil

S.No.	Organization/ agency	Cost, title of consultancy	Duration

8. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing): Nil

S. No.	Agency	Amount	Duration with dates	Status i.e. ongoing/ completed

9. Details of PhD and MPhil Scholars (including those awarded degree):

S. No.	Name and enrolment no:	Year of registration	Year of completion/ award
1	Vinayak Adimule (127722788)	August 2012	2016
2	Y. Srinivasa Rao (112247220)	May 2011	2017
3	Inamdar Ismail Murad (127724140)	July 2012	2019
4	Raunaq (122877737)	September 2012	2020
5	Yogesh (179342040)	July 2017	2021

6	Ravikant (173101790)	January 2017	2023
7	Mr. Jagannadha Rao. Alla (198570359)	July 2019	2025
8	Ms. Nidhi Manhas (202493220)	July 2020	2025
9	Mr. P. K. Nag (202493410)	July 2020	2025
10	Ms. Brijesh Kumari (202492812)	July 2020	Pursuing
11	Mr. V. Mallikarjun Sarma (202492962)	July 2020	Pursuing
12	Ms. Smriti Rana (210270143)	July 2021	Pursuing

10. Details of Programmes/ Courses coordinated/ written/ edited/ translated (if applicable):

S. N. o.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/ Written/ Edited (content/ Language/ Format)/ Translated	Period
1	Ph.D. (Chemistry)	RCH-001, Research Methodology	1. Ethical issues in conducting chemical research 2. Safety issues, Chemical Hazards and their management 3. Research problem and Hypothesis	Face to Face Teaching	2017-till date
		RCH-003, Analytical Techniques in Chem.-II	1. Gas chromatography 2. High Performance Column Chromatography		
		RCHE-001, Advances in Organic Chemistry	1. Asymmetric synthesis 2. Organosilicone compounds 3. Homogeneous hydrogenations 4. Oxidations 5. Principles of green chem. and its applications		
2	M.Sc. Chem. on Campus Coordinator for MCH-543	MCH 422, Organic Reaction Mechanism	Units I, II and III	Face to Face Teaching	2009-2013
		MCH 426, Chemistry Lab V	Chemistry Lab V	Lab work	
		MCH 512, Reactions for Organic Synthesis	Units II, III and IV	Face to Face Teaching	
		MCH 516, Chemistry Lab VIII	Chemistry Lab VIII	Lab work	
		MCH-543, Chemistry of Primary and Sec Metabolites	Full Course	Face to Face Teaching	
		MCH-563, Project Work	Project dissertation and Lab work	Guiding for the project work	
3	M.Sc. Chem. and M.Sc. Analytical Chemistry (Distance Mode) Sem-I	MCH-012, Stereochemistry and Reactive Intermediates	Unit-1 Molecular Symmetry and Chirality Unit-2 Stereoisomerism of Molecules with Chiral Centres Unit-3 Conformations of Six-Membered Rings Unit-4 Stereochemistry of Molecules Without Chiral Centres	Coordination and content writing	2021 till date

			Unit-5 Configuration Unit-6 Topicity and Prostereoisomerism Unit-7 Asymmetric Induction Unit-8 Molecular Dissymmetry and Chiroptical Properties Unit-9 Organic Reaction Mechanism Unit-10 Carbocations: Structural Aspects Unit-11 Carbocation: Rearrangement Reactions Unit-12 Carbanions Unit-13 Free Radicals as Intermediates Unit-14 Carbenes as Intermediates Unit-15 Nitrenes as Intermediates Unit-16 Arynes as Intermediates		
	M.Sc. (Chemistry) and M.Sc. Analytical Chemistry Sem-I	MCH-015 Biology for Chemists	Unit-1 Cell and Cell Organelles Unit-2 Carbohydrates and Lipids Unit-3 Proteins and Nucleic Acids Unit-4 Intermediary Metabolism Unit-5 Metabolism of Carbohydrates and Lipids Unit-6 Metabolism of Proteins and Nucleic Acids Unit-7 The Immune System Unit-8 Genetics and Molecular Biology	Coordination and content writing	2021 till date
	M.Sc. (Chemistry) and M.Sc. Analytical Chemistry Sem-II	MCH-017 Organic Chemistry-II	Unit-17 Asymmetric Synthesis	Content writing	2021 till date
		MCHL-017 Separation and Spectroscopic Methods Lab	Experiment 6: Spectrophotometric Determination of Fe^{2+} Ions Using 1,10-Phenanthroline Experiment 7: Spectrophotometric Determination of Nickel Using Dimethylglyoxime Experiment 8: Spectrophotometric Determination of Methylethyl Ketone Experiment 9: Determination of the Concentrations of Aspirin and Caffeine in Proprietary Analgesic Tablet by UV Spectrometry Experiment 10: Characterisation of Functional Groups Using IR Spectroscopy	Coordination and content writing	2021 till date
	M.Sc. (Chemistry) and Sem-III	MCH-022 (Separation and Spectroscopic Methods)	Unit-9, UV-Visible Spectrometry Unit-10, IR and Raman Spectrometry Unit-11, Fluorimetry and Phosphorimetry Unit-12, Atomic Absorption and Emission Spectrometry Unit-13, 1H NMR Spectroscopy Unit-14, Two-Dimensional NMR Spectroscopy	Content writing	2024 till date

			Unit-15, ^{13}C NMR Spectroscopy Unit-16, High Resolution Mass Spectrometry Unit-17, Hyphenated Techniques Unit-18, Scattering and Diffraction		
	M.Sc. (Chemistry) and M.Sc. Analytical Chemistry Sem-III	MCH-023 (Environmental Chemistry)	Unit-1, Nature and Formation of Soil Unit-2, Soil Quality Parameters Unit-3, Soil Fertility and Productivity Unit-7: Atmosphere: Nature and Importance Unit-8: Meteorological Aspects of Air Pollution Unit-9: Air Pollutants Unit-10: Air Quality Monitoring and Control	Coordination and content writing	2024 till date
	M.Sc. (Chemistry) and M.Sc. Analytical Chemistry Sem-IV	MCH-024 (Introduction to Research)	Unit 1: Foundations of Research Unit 2: Research Problem Unit 3: Research Design and Hypothesis Unit 4: Sampling and Data Analysis Unit 5: Evaluation of Analytical Data in Chemical Research Unit 6: Ethics and Safety in Chemical Research Unit 7: Presentation of Research Work and Thesis	Coordination and content writing	2024 till date
	M.Sc. (Chemistry) Sem-IV	MCHE-012 (Spectroscopic Study of Organic Compounds)	Unit-1, UV-Visible Spectroscopy: Some Basic Concepts Unit-2, UV-Visible Spectra of Some Illustrative Compounds Unit-3, Infrared Spectroscopy- Basic Aspects and Applications Unit-4 IR Spectra of Some More Classes of Organic Compounds Unit-5 Basic Concepts of NMR Spectroscopy Unit-6 ^1H NMR Spectroscopy Unit-7 Complex NMR Spectra Unit-8 Applications of NMR Spectroscopy Unit-9 Introduction to 2D-NMR Unit-10 ^{13}C NMR Spectroscopy Unit-11 Applications of DEPT, INEPT and ^{13}C NMR Spectroscopy	Coordination and content writing	2024 till date
4	M.Sc. Analytical Chemistry Sem-IV	MCHL-018 (Environmental Chemistry Lab)	Expt 1-Water and soil Sampling Expt 2-Determination of pH and Conductance of Water and Soil Expt 3- Determination of Total Available Nitrogen in a Soil Sample Expt 4- Determination of Available Phosphorus in a Soil Sample Expt 5- Estimation of Alkalinity of the Given Water Sample Expt 6- Estimation of Soluble Chlorides in the Given Water Sample	Coordination and content writing	

			Expt 7- Estimation of Soluble Sulphates in the Given Water Sample Expt 8- Estimation of Dissolved Oxygen in the Given Water Sample Expt 9- Determination of Hardness in the Given Water Sample Expt 10- Determination of a Dustfall, Rainfall and Humidity Expt 11- Determination of a Dustfall, Rainfall and Humidity Expt 12- Detection of CO and NO ₂ in Gaseous Emissions Expt 13- Determination of SPM and NO ₂ in Ambient Air Expt 14- Determination of Sulphur Dioxide in Ambient Air Expt 15- Identification of Pesticides in Pesticide Residues		
		MCH-003 (Spectroscopic Methods of Analysis)	Unit-3: Infra Red Spectrometry Unit-4: Raman Spectrometry Unit-11: Applications of AAS and AES Unit-12: NMR Spectroscopy Unit-13: Mass Spectrometry	Coordination, Transformation	2024 till date
		MCHL-003 (Spectroscopic Methods of Analysis Lab)	Experiment 1: Spectrophotometric determination of Fe ²⁺ ions using 1,10-phenanthroline Experiment 2: Spectrophotometric determination of nickel using dimethylglyoxime Experiment 3: Determination of chromium and manganese in a mixture Experiment 4: Spectrophotometric detmn. of methylethyl ketone Experiment 5: Determination of pK _a of an indicator using spectrophotometry	Coordination, Transformation	2024 till date
5	M.Sc. (Environmental) Sciences SOITS	MEC-01, Environmental Chemistry	Unit-1, Basic Analytical Techniques Unit -4, Chromatographic Techniques	Self Written Self written	2017-till date
6	Bachelor of Science (B.Sc.), SOS	CHE-01, Atoms And Molecules	Unit-1, Old Quantum Theory Unit-2, Wave Mechanics	Vetting	1989-till date
		CHE-02, Inorganic Chemistry Coordinator 2004-2008 and 2017-Till Date	Unit-5, Alkaline Earth Metals Unit-7, Elements of Group-14 Unit-9, Elements of Group-16	Transformation and Vetting	
		CHE-03L, Chemistry Lab I	Unit-1, Laboratory Techniques and Procedures Unit-4, Estimation of Iron Unit-5, Estimation of Copper	Transformation and Vetting	
			Unit-1, Reaction Mechanism – Introduction		

		<p>CHE-06, Organic Reaction Mechanism</p> <p>Unit- 2, Kinetics and Mechanism of Reactions</p> <p>Unit-3, Aliphatic Nucleophilic Substitution</p> <p>Unit-4, Aromatic Electrophilic and Nucleophilic Substitution</p> <p>Unit-5, Carbon-Carbon multiple bond addition</p> <p>Unit-6, Addition in Carbonyl Compounds</p> <p>Unit-7, Elimination Reaction</p> <p>Unit-8, Oxidation and Reduction</p> <p>Unit-9, Carbene, Nitrene and Benzyne</p> <p>Unit-10, Free Radicals</p> <p>Unit-11, Molecular Rearrangements</p> <p>Unit-12, Pericyclic Reactions</p>	<p>Transformation and Vetting</p> <p>Vetting</p>	
	<p>CHE-09, Biochemistry Coordinator</p> <p>Unit-5, Proteins</p> <p>Unit-6, Enzymes</p> <p>Unit-7, Vitamins, Co-enzymes and Minerals</p> <p>Unit-8, Bioenergetics</p> <p>Unit-9, Metabolism –I</p> <p>Unit-10, Metabolism –II</p> <p>Unit-11, Regulation of Metabolism</p> <p>Unit-12, Photosynthesis</p>	<p>Coordination, Transformation and Vetting</p>	1994-till date	
	<p>AEC-01, Environmental Chemistry</p> <p>Unit-1, Nature and Formation of Soil</p> <p>Unit-2, Soil Quality Parameters</p> <p>Unit-3, Soil fertility and evaluation</p> <p>Unit- 7, Atmosphere: Nature & Importance</p> <p>Unit-8, Meteorological Aspects of Air Pollution</p> <p><u>Unit-9, Air Pollutants</u></p> <p>Unit-10, Air Quality Monitoring and Control</p> <p>Ex-3, Determination of Percent Organic Matter Content in a Soil Sample</p> <p>Ex-4, Determination of Total Available Nitrogen in a Soil Sample</p> <p>Ex-5, Determination of Available Sulphur in a Soil Sample</p> <p>Ex-6, Determination of Available Phosphorus in a Soil Sample</p> <p>Ex-7, Determination of Extractable Manganese and Iron in a Soil Sample</p>	<p>Coordination, Transformation and Vetting</p>	2003-till date	

7	Bachelor of Science (B.Sc.), SOS as per CBCS	BCHCT-131, Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons	Unit-7, Covalent Bond Unit-14, Organic Reactions and Reactive Intermediates	Self Written and Vetting	2014 till date
		BCHCL-132, Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons : Laboratory	Unit-1, Introduction to Titrimetry Exp-2, Estimation of Oxalic Acid By Redox Titration Exp-3, Estimation of Water of Crystallisation In Mohr's Salt Exp-4, Estimation of Iron (II) Ions By Chromatometry Using Internal Indicator Exp-5, Estimation of Copper (II) Ions Iodometrically	Coordination, Self Written and Vetting	2014 till date
	Bachelor of Science (B.Sc.), SOS as per CBCS	BCHCT-133 and BCHCL-134, Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I	Unit -2: Techniques In Organic Laboratory Exp - 8: Purification of Organic Compounds by Recrystallisation and Distillation Exp- 9: Criteria of Purity: Determination of Melting and Boiling Points Exp- 12: Preparation of Oxime and Phenylhydrazone	Self Written and Vetting	2019-till date
	Bachelor of Science (B.Sc.), SOS as per CBCS	BCHCT-135 and BCHCL-136, Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II BCHCT-137, and BCHCL-138 Coordination Chemistry, States of Matter and Chemical Kinetics	Course Team Member		
	Bachelor of Science (B.Sc.), SOS as per CBCS	BCHET-141	UNIT 14: Flame Atomic UNIT 15: Final Atomic Emission Spectrometry	Transformation	
	Bachelor of Science (B.Sc.), SOS as per CBCS	BCHEL-142, Analytical Methods in Chemistry	Experiment 3: Separation and Identification of a Mixture of Sudan Yellow and Sudan Red Dye by TLC Experiment 4: Separation of a Mixture of Plant Pigments by TLC	Self Written and Vetting	2019 to 2022

		BCHET-147, and BCHEL-148 Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy	Course team member		
		BCHET-149, Molecules of Life	Unit-1 Cell Structure and Function Unit-4 Amino Acids Unit-5 Peptides Unit-6 Proteins Unit-7 Enzymes: Nature and Classification Unit-8 Enzymes: Activation and Inhibition Unit-9 Enzymes: Drug and Action Unit-14 Bioenergetics Unit-15 Carbohydrate Metabolism Unit-16 Kreb's Cycle and its Metabolic Role Unit-17 Metabolism of Lipids and Proteins	Coordination, Self written and vetting	2022
		BCHEL-150, Molecules of Life: Laboratory	Expt. 3: Determination of pK_a of Glycine by pH metry Expt. 9: Synthesis of Aspirin and Its Comparison With an Aspirin Tablet by TILC Expt. 10: Extraction of DNA	Coordination, Self written and vetting	2022
		BCHS-183 Laboratory Management Skills	Unit-1 Introduction to a Laboratory Unit-2 Design and Components of a Laboratory Unit-4 Communication in a Laboratory Unit-5 Routine Management of a Laboratory Unit-7 Files and Records Unit-9 Fire Hazards Unit-10 Electricity and Gas Hazards Unit-11 Chemical and Biological Hazards	Coordination and content writing	2023 onwar ds
	B.Sc. (Food Safety and Quality Management) (BSCFFSQM)	BPVC-102 Food Chemistry and Nutrition	Unit-1 Basics of Food Chemistry Unit-2 Water Unit-3 Carbohydrates Unit-4 Proteins Unit-5 Lipids Unit-6 Vitamins Unit-7 Minerals Unit-8 Enzymes Unit-9 Nutritional Aspects Unit-10 Nutritive Value of Agricultural Produce	Editing	2024 onwar ds

			Unit-11 Nutritive Value of Animal Produce Unit-12 Metabolism of Nutrients Unit-13 Food Additives-I Unit-14 Food Additives-II		
		BPVC-102 Food Chemistry and Nutrition	Experiment 1: To Prepare A Standard Solution Of Sodium Hydroxide Experiment 2: To Collect and Prepare A Food Sample for Chemical Analysis Experiment 3: To Determine the Moisture Content in a Food Sample Experiment 4: To Determine the Sugar and Starch Content in A Food Sample Experiment 5: Determination of Protein Content in a Food Sample Experiment 6: Determination of Fat Content in a Food Sample Experiment 7: Determination of Ash Content in Foods Experiment 8: Determination of Acidity and Ph in Foods Experiment 9: Determination of Gluten Content in Wheat Flour Experiment 10: To Determine the Specific Gravity of Oils and Fats	Editing	2024 onwards
		BPVC-102 Food Chemistry and Nutrition	Activity 1: To observe the changes during dry heating of sugar Activity 2: To categorise the preservatives used in beverages, pickles, baked and canned products Activity 3: To boil an egg and observe the changes in its physical state Activity 4: To observe the changes in colour, texture and odour of roasted and unroasted semolina (<i>sooji</i>) and gram flour (<i>besan</i>). Activity 5: To study the rancidity of oils Activity 6: To draw a collage of Vitamin A rich foods Activity 7: To prepare a chart depicting the inter-relationship between the metabolism of carbohydrates, lipids and proteins. Activity 8: To prepare curd and learn the science behind it	Editing	

8	Bachelor of Science (Multidisciplinary) (BSCM), SOS as per FYUP	BCHCT-131, Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons	Unit-7, Covalent Bond Unit-14, Organic Reactions and Reactive Intermediates	Self Written and Vetting	2014 till date
		BCHCL-132, Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons : Laboratory Coordinator along with other faculty	Unit-1, Introduction to Titrimetry Exp-2, Estimation of Oxalic Acid By Redox Titration Exp-3, Estimation of Water of Crystallisation In Mohr's Salt Exp-4, Estimation of Iron (II) Ions By Chromatometry Using Internal Indicator Exp-5, Estimation of Copper (II) Ions Iodometrically	Self Written and Vetting	2014 till date
		BCHCL-134, Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I	Unit -2: Techniques In Organic Laboratory Exp - 8: Purification of Organic Compounds by Recrystallisation and Distillation Exp- 9: Criteria of Purity: Determination of Melting and Boiling Points Exp- 12: Preparation of Oxime and Phenylhydrazone	Self Written and Vetting	2019-till date
		BCHS-183 Laboratory Management Skills	Unit-1 Introduction to a Laboratory Unit-2 Design and Components of a Laboratory Unit-4 Communication in a Laboratory Unit-5 Routine Management of a Laboratory Unit-7 Files and Records Unit-9 Fire Hazards Unit-10 Electricity and Gas Hazards Unit-11 Chemical and Biological Hazards	Coordination and content writing	2023 onwards
	B.Sc. (Food Safety and Quality Management) (BSCFFSQM)	BPVC-102 Food Chemistry and Nutrition	Block 1: Food Chemistry - I Block 2: Food Chemistry - II Block 3: Basic Nutrition Block 4: Food Additives Block 5: Activities Manual Block 6: Practical Manual	Editing	2024 onwards
	Post Grad. Diploma in	MCH-003, Spectroscopic Methods	Unit-3: Infra Red Spectrometry Unit-4; Raman Spectrometry Unit-11; Applications of AAS and AES Unit-12: NMR Spectroscopy Unit-13: Mass Spectrometry	Coordination, Transformation	2007-till date

9	Analytical Chemistry PGDAC Programme Coordinator				
		MCHL-003, Spectroscopic Methods Lab Coordinator	Experiment 1: Spectrophotometric determination of Fe^{2+} ions using 1,10-phenanthroline Experiment 2: Spectrophotometric determination of nickel using dimethylglyoxime Experiment 3: Determination of chromium and manganese in a mixture Experiment 4: Spectrophotometric detmn. of methylethyl ketone Experiment 5: Determination of pK_a of an indicator using spectrophotometry	Coordination, Transformation	2007- till date
10	PG Diploma in Pharmaceutical Sales management, PGDPSM SOVET	MVE-002, Pharmacology and Toxicology	Unit-8, Drugs Acting on Respiratory System Unit-9, Drugs Acting on Central Nervous System Unit-10, Drugs Acting on Gastrointestinal Tract System Unit-11, Local Anaesthetics Unit-12, Chemotherapy-I Unit-13, Chemotherapy-II	Transformation	2009- tilldate
11	PG Diploma in Pharmaceutical Analytical Techniques, PGDPAT SOVET	MVE-013: Spectroscopic Methods	Unit-1, Properties of electromagnetic Radiation Unit-2, Ultraviolet – Visible Spectroscopy Infra red Spectroscopy Unit-3, Fluorimetry and Phosphorimetry Unit-4, Flame Photometry Unit-5, Atomic Absorption Spectroscopy Unit-6, Atomic Emission Spectroscopy Unit-7, Nuclear Magnetic Resonance Spectroscopy Unit-8, Mass Spectrometry Unit-9, Structure Elucidation by Integrated Methods Unit-10, X-Ray Diffraction methods	Content, Language and Format Editing	2010- tilldate
		MVE-014: Separation and Thermal Methods	Full Course	Content, Language and Format Editing	
		MVEL-002: Separation and	Full Course	Content, Language and Format Editing	

		Spectral Methods of Analysis			
12	PG Diploma in Food Safety and Quality Management, PGDFSQM (SOA)	MVP-001, Food Fundamentals and Chemistry MVPI-001, Food Microbiology MVP-002, Food Laws and Standards MVP-003, Principles of Food Safety and Quality Management MVP-004, Food Safety and Quality Management Systems MVPL-001, Food Safety and Quality Auditing MVPL-002, Chemical Analysis and Quality Assurance	Unit-5, Water Unit-6, Carbohydrates Unit-7, Carbohydrates Unit-8, Lipids Unit-9, Vitamins and Minerals Unit-10, Food Additives Member of the Course Teams	Self Written Course Team Member	2007-2008 2007-2008
13	PG Diploma in Env. and Occupational Health (PGDEOH)	Environmental Pollution	Unit-1, Environmental Pollution Chemistry Unit-2, Air Pollution Unit-3, Solid Waste Pollution Unit-4, Soil Pollution Unit-5, Noise Pollution Unit-6, Radiation Pollution Unit-7, Water Pollution Unit-8, Electronic Waste Pollution	Course Editing	2018-till date
14	PG Cert. in Professional Dev. of Teachers, PGCPDT (SOE)	MESE-004, Chemistry Teaching	Unit-18, Carbohydrates and Lipids Unit-19, Proteins and Nucleic Acids Unit-20, Replication, Transcription and Protein Biosynthesis	Transformation Self Written Self Written	2005-till date
15	Certificate in Pharmal Sales Management, CPSM SOVET		Member, Programme and Course Expert Committee Phase-I approved		July, 2008 till date
16	Certificate Programme in Laboratory Techniques (CPLT)	LT-01, Good Laboratory Practices Coordinator	Unit-11, Electricity and Gas Hazards Unit-12, Fire Hazards (Video Programme "Just break the triangle" in English and Hindi) Unit-13, Radiation and Chemical Hazards Exp-8, Basic aspects of Electrical Maintenance Exp-9, Study of Supply of Gas, Electricity and Water in a Laboratory	Coordination, Transformation and Vetting	2001-2016

			Exp-10, Identification of Compressed Gases and Study of their Handling and Storage Exp-11, Study of Fire Safety Measures in a Laboratory Ex-12, Classifying and Handling of Hazardous Chemicals		
17	Revised Certificate Programme in Laboratory Techniques (CPLT) Coordinator	CLT-101, Good Laboratory Practices Coordinator	Unit-8, Electricity and Gas Hazards Unit-9, Fire Hazards Unit-10, Chemical and Biological Hazards	Coordination, Transformation and Vetting	2014-till date
		CLTL-101, Good Laboratory Practices Lab Coordinator	Ex-7: Basic Aspects of Electrical Maintenance Ex- 8: Supply of Gas, Electricity and Water in a Laboratory Ex- 9: Fire Safety Measures in a Laboratory Ex- 10: Classification and Handling of Hazardous Chemicals	Coordination, Transformation and Vetting	2014-till date

11. Training programmes designed and conducted, duration and dates

S. No.	Programme	Dates	Place	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other
1	Refresher course in chemistry: As one of the Coordinators of the programme (jointly by IGNOU & CPDHE, DU)	6.1.1992 - 25.01.1992	CPDHE, Univ. of Delhi, Delhi	~ 40
2	Course designing for Laboratory Technicians: As one of the Coordinators of the programme	13.5.1996 - 18.5.1996	IGNOU, New Delhi	~ 20
3	Teacher Training: Teaching Chemistry	17 th -22 nd Oct, 2005	NIL, Dadri, UP	~ 30
4	Teacher Training Programme	23 rd - 26 th Oct, 2007	NERIE, Shillong	~ 25
5	Orientation " Women in different careers "	09.03.07	IEEE, Jamia Millia Islamia, New Delhi	~ 25
6	Orientation, Refresher Course in Environmental Studies	Feb 23rd to March 17 th 2009 24.2.2009	CPDHE, Univ. of Delhi, Delhi	~ 40
7	Orientation of Counsellors of PGDAC Programme	2009, 2010 and 2012	Bangalore and Delhi	~ 25
8	Personal Contact Programme / Workshop for PGCPDT, MESE-004	17-22nd Oct'2005	NIL, Ghaziabad	~ 35
9	Exploratory Workshop for Analytical Chemistry Programme as one of the members	27.3.1997 - 28.3.1997	EMPC, IGNOU, Delhi	~ 15

10	Orientation, "Recent Trends in Chemical Sciences"	26.12.12 to 15.1.13, 7.1.13	CPDHE, Univ. of Delhi, Delhi	~ 40
11	Training, Creative use of technology and tools for teaching learning	20 th Feb to 21 st Feb, 2013	NCIDE, IGNOU	~ 30

12. Details of Counselling sessions conducted:

S. N.	Programme	Course/Prog.	Place	Dates	Duration	Mode
	M.Sc. in Analytical Chemistry – A distance education programme from IGNOU	MSCANCHEM	IGNOU, Delhi	21.07. 2024	1 Hour	IRC
	An introduction to B.Sc. Multidisciplinary Programme	BSCM	IGNOU, Delhi	18.03. 2024	1 Hour	IRC
	CPLT and PGDAC programmes for the prospective learners of July 2023 Session	CPLT and PGDAC programmes	IGNOU, Delhi	18.06. 2023	1 Hour	IRC
	Introduction to "Laboratory Management Skills" course	BCHS-183	IGNOU, Delhi	20. 11.2022	1 Hour	IRC
1	Molecules of Life: Preparation of Term and Examination	BCHET-149	IGNOU, Delhi	17.05.2022	1 Hour	IRC
2	Molecules of Life-An introduction to the elective course in chemistry	BCHET-149	IGNOU, Delhi	05.10.2021	1 Hour	IRC
3	PGDAC and CPLT	Lab courses	IGNOU, Delhi	16.03.2021	1 Hour	IRC
4	CPLT in the context of the web support for the learners through WEAS.	CLT-101 to 104 and CLTL-101 to 104	IGNOU, Delhi	18.10.2020	1 Hour	IRC
5	PGDAC: An Introduction to Lab Courses	MHCL-001 to 004	IGNOU, Delhi	25.02.2020	1 Hour	IRC
6	PGDAC: An Introduction to theory courses	MCH-001 to 004	IGNOU, Delhi	24.02.2020	1 Hour	IRC
7	PGDAC: Programme structure and General Analytical Techniques	MCH-001 to 004	IGNOU, Delhi	20.01.2020	1 Hour	IRC
8	Teleconferencing, B.Sc.	CHE-05	IGNOU, Delhi	20.02.2019	1 Hour	Teleconferencing
9	IRC-1 st Block, B.Sc.	CHE-06	IGNOU, Delhi	20.01.2019	1 Hour	IRC
10	Teleconferencing for Academic Counselors, CPLT	All Courses	IGNOU, Delhi	10.09.2018	1 Hour	Teleconferencing
11	IRC, CPLT	All Courses	IGNOU, Delhi	10.05.2018	1 Hour	IRC
12	IRC of the programme in general, PGDAC	MCH-001, 002, 003, 004 MCHL-001, 002, 003, 004	IGNOU, Delhi	05.03.2013	1 Hour	IRC
13	Audio Recording under "IGNOU Time", SOS	About all SOS programmes	IGNOU, Delhi	03.07.13	1 Hour	Audio Recording
14	Free Radicals IV, B.Sc.	CHE-06	IGNOU, Delhi	01.03.2013	1 Hour	EDUSAT
15	Free Radicals III, B.Sc.	CHE-06	IGNOU, Delhi	01.02.2013	1 Hour	EDUSAT

16	IRC of the programme in general, CPLT	LT-1, 2, 3 and 4	IGNOU, Delhi	9.10.12	1 Hour	IRC
17	IRC of the programme in general, PGDAC	MCH-001, 002, 003, 004 MCHL-001, 002, 003, 004	IGNOU, Delhi	19.8.12	1 Hour	IRC
18	Free Radicals I, B. Sc.	CHE-06	IGNOU, Delhi	06.07.2012	1 Hour	EDUSAT
19	Free Radicals II (2nd session), B. Sc.	CHE-06	IGNOU, Delhi	06.07.2012	1 Hour	EDUSAT
20	Essentials of Pharmaceutical Chemistry-II, PGDPSM	MVE-001	IGNOU, Delhi	25.05.2012	1 Hour	EDUSAT
21	Oxidation and Reduction (2 Sessions), B.Sc.	CHE-06	IGNOU, Delhi	07.01.2011	2 Hours	EDUSAT
22	Essentials of Pharmaceutical Chemistry-I, PGDPSM	MVE-001	IGNOU, Delhi	25.03.2011	1 Hour	EDUSAT
23	Organic Reaction Mechanism: Eliminations, B.Sc.	CHE-06	IGNOU, Delhi	01.07.2011	1½ Hours	EDUSAT
24	PGDAC Programme Induction, PGDAC	MCH-001, 002, 003, 004 MCHL-001, 002, 003, 004	IGNOU, Delhi	12.01.2010	2 Hours	EDUSAT
25	IRC of the whole course and pollution in specific, B.Sc.	AEC-01	IGNOU, Delhi	24.8.10	1 Hour	IRC
26	Post Graduate Diploma in Analytical Chemistry: An Overview, PGDAC	MCH-001, 002, 003, 004 MCHL-001, 002, 003, 004	IGNOU, Delhi	07.05.2010	2 Hours	EDUSAT
27	IRC of the programme in general B.Sc.	All the Chem courses in general	IGNOU, Delhi	17.1.10	1 Hour	IRC
28	IRC of the programme-general CPLT	LT-1, 2, 3 and 4	IGNOU, Delhi	11.8.09	1 Hour	IRC
29	IRC of the programme in general B.Sc.	All the Chem. courses in general	IGNOU, Delhi	18.10.09	1 Hour	IRC
30	On Handling of lab component of Chemistry courses B.Sc.	CHE-03(L),CHE07 L, CHE-08(L), CHE-11(L), CHE-12(L)	IGNOU, Delhi	2.6.09	1 Hour	IRC
31	Aromatic Hydrocarbons: (In Hindi), B.Sc.	CHE-05	IGNOU, Delhi	02.01.2009	1 Hour	EDUSAT
32	Reactions of the carbon-carbon double bond, B.Sc.	CHE-06	IGNOU, Delhi	01.05.2009	1 Hour	EDUSAT
33	On Handling of lab component of Chemistry courses B.Sc.	CHE-03(L),CHE-07L, CHE-08(L), CHE-11(L), CHE-12(L)	IGNOU, Delhi	21.9.08	1 Hour	IRC
34	B.Sc.	Recording of Gyan Vani Studio at EMPC	IGNOU, Delhi	5.11.08	1 Hour	GyanVani recording
35	Aromatic Hydrocarbons: (In Hindi)	CHE-05	IGNOU, Delhi	04.01.2008	1 Hour	EDUSAT
36	IRC of the programme in general	LT-1, 2, 3 and 4 (CPLT)	IGNOU, Delhi	16.10.07	1 Hour	IRC

37	Aromatic Hydrocarbons – III, B.Sc.	CHE-05	IGNOU, Delhi	07.09.2007	1 Hour	EDUSAT
38	Aromatic Hydrocarbons IV, B.Sc.	CHE-05	IGNOU, Delhi	05.10.2007	1 Hour	EDUSAT
39	IRC for course in general	AEC-01 (B. Sc.)	IGNOU, Delhi	5.6.2007	1 Hour	IRC
40	Stereochemistry – II, B.Sc.	CHE-05	IGNOU, Delhi	05.01.2007	1 Hour	EDUSAT
41	Aromatic Hydrocarbons: Aromaticity	CHE-05	IGNOU, Delhi	27.04.2007	1 Hour	EDUSAT
42	On Handling of lab component of Chemistry courses B.Sc.	CHE-03(L), 07(L), 08(L), 11(L), 12(L)	IGNOU, Delhi	4.11.07	1 Hour	IRC
43	Aromatic Hydrocarbons II, B.Sc.	CHE-05	IGNOU, Delhi	04.05.2007	1 Hour	EDUSAT
44	IRC of the programme in general	LT-1, 2, 3 and 4 (CPLT)	IGNOU, Delhi	4.2.07	1 Hour	IRC
45	Atmospheric Pollution Causes and concerns, BDP	ACE	IGNOU, Delhi	21.03.2007	1 Hour	EDUSAT
46	Aromatic Hydrocarbons – V, B.Sc.	CHE-05	IGNOU, Delhi	02.11.2007	1 Hour	EDUSAT
47	Stereochemistry - III, B.Sc.	CHE-05	IGNOU, Delhi	02.02.2007	1 Hour	EDUSAT
48	Chemistry Virtual Lab Need and Concerns,	Chemistry Courses	IGNOU, Delhi	26.12.2006	1 Hour	Teleconferencing
49	Importance of virtual lab for distance science learners	Lab Courses	NCIDE, IIGNOU, Delhi	26.12.06	1 Hour	Two way Video Teleconferencing
50	Stereochemistry – I, B.Sc.	CHE-05	IGNOU, Delhi	10.11.2006	1 Hour	EDUSAT
51	Thermodynamic and Kinetic Control in Reaction Mechanism, B.Sc.	CHE-06	IGNOU, Delhi	08.09.2006	1 Hour	EDUSAT
52	Aromaticity and Reactivity of aromatic compounds, B.Sc.	CHE-06	IGNOU, Delhi	08.08.2006	1 Hour	EDUSAT
53	Nucleophilic substitution, B.Sc.	CHE-06	IGNOU, Delhi	6.03.2006	1 Hour	EDUSAT
54	Organic Reaction Mechanism: Basic Concepts, CHE-06	B.Sc.	IGNOU, Delhi	6.02.2006	1 Hour	EDUSAT
55	Reactions of the Carbonyl group, B.Sc.	CHE-06	IGNOU, Delhi	03.04.2006	1 Hour	EDUSAT
56	B.Sc. (Chem) programme	B.Sc. (Chem.)	IGNOU, Delhi	29.01.2006	1 Hour	IRC
57	Electrophilic Aromatic Substitution,	CHE-06	IGNOU, Delhi	01.05.2006	1 Hour	EDUSAT
58	IRC on Biomolecules, B.Sc.	CHE-09	IGNOU, Delhi	15.07.2006	1 Hour	EDUSAT
59	IRC of the programme in general	LT-1, 2, 3 and 4 (CPLT)	IGNOU, Delhi	20.12.2005	1 Hour	IRC
60	Introduction to Environmental Chemistry	AEC-01	IGNOU, Delhi	12.12.2005	1 Hour	EDUSAT
61	IRC for Course in general	AEC-01 (B.Sc.)	IGNOU, Delhi	27.11.2005	1 Hour	IRC
62	Teleconferencing for feedback and monitoring	MESE-004 (PGCPDT)	IGNOU, Delhi	17.11.2005	1 Hour	Teleconferencing
63	Teleconferencing for Induction	MESE-004 (PGCPDT)	IGNOU, Delhi	19.09.2005	1 Hour	Teleconferencing
64	Session on the experiments of	CHE-03(L)	IGNOU,	9.3.2005	1 Hour	IRC

	Chem lab courses		Delhi			
65	Edusat session on intro to Environmental Chem, B.Sc.	AEC-01	IGNOU, Delhi	22.7.2005	1 Hour	EDUSAT
66	Edusat session on Programme Induction, B.Sc.	CHE-01-CHE12(L)	IGNOU, Delhi	7.9.2005	1 Hour	EDUSAT
67	Replay Modes for Edusat: Interactive, CPLT	LT-1,2,3,4	IGNOU, Delhi	5.2.2005	1 Hour	IRC

13. Details of Patents granted (if any):Nil
14. Contribution to IGNOU's corporate life:

S. No.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
1	Member	UGC, CBCS Committee of IGNOU,	May, 2016 to 2018
2	Expert	Doctoral Research Committee (SOITS)	Dec. 2016 till date
3	Chairperson	Committee for equitable distribution, SOS	11 th July, 2019
4	Chairperson	Zero Waste Campus	1 st January, 2019
5	Member	Study/Sabbatical Leave	8 th October, 2018
6	Member	Guidelines for notifying use of Aadhar Identity	22 nd March, 2017
7	Member	Identification of Obsolete items, SOS	Jan, 2017 to Jan, 2019
8	Expert	Doctoral Research Committee (SOITS)	Dec. 2016 till date
9	Member	General Cleanliness Committee	Oct. 2016 till date
10	Member	Committee for equitable distribution, SOS	22 nd July, 2016
11	Member	UGC, CBCS Committee of IGNOU	May, 2016 to 2018
12	Member	Screening /shortlisting the applications for the post of Lab. Attendant	7 th January, 2013
13	Member	Reception Committee for 13th Prof. G. Ram Reddy Memorial	2 nd July, 2008
14	Chairperson	FYUP Committee, SOS	
15	Member	Institutional Ethics Committee (IEC)	19 th July, 2024

15. Administrative position/s held in the University (even as in charge): Nil

S. No.	Designation	Period

16. Any other contribution/information

A. Contributed as a resource person in a number of workshops organized by **NCERT** for developing and reviewing of textual material at upper primary, secondary and senior secondary levels; creating supplementary multimedia packages, kits etc. for secondary and senior secondary level. The details are as under.

S.N	Inviting Agency	Title	Date
1	NCERT	Development of Laboratory Manual in Science at Upper Primary Stage	14 -18 January, 2013
2	DCETA, Chacha Nehru Bhawan,	Development of interactive multimedia learning objects on science concepts for classes IX and Xth: Script	8- 10 September, 2008

	NIE Campus	development	
3	NCERT, NIE Workshop	Preparation of Manual for Science & Mathematics Kits for Upper Primary Stage: Review and Finalisation	12-16 May, 2008
4	NCERT, NIE Workshop	Workshop on Capacity Building of HMs and teachers of RIE DMP Schools on the use of Sciences and Mathematics Kits: Manual Preparation	29- Jan, 02 Feb, 2008
5	NCERT	Development of Multimedia CD on learning materials regarding workshop	28 Jan, 01- Feb, 2008
6	NCERT, DESM	Development of Project Books on Environment Education for Classes VI to X, Finalisation Meeting	28-Nov, 2007
7	NCERT, DCETA	Workshop for the development of Multimedia CD on learning materials: Development of Multimedia script	8-12 October, 2007
8	NCERT	Review of the tests prepared for languages and Maths for class III and languages and Science and Social Science for Classes VII/VIII for the achievement survey	17 - 18 Sept, 2007
9	NCERT, DCETA	Workshop for the development of Multimedia CD on learning materials	29 May - 4 June, 2007
10	NCERT, DESM	Development of Textbook in Science at Upper Primary Stage (Class VIII): Review of revised draft	07 - 11 May, 2007
11	NCERT, DESM	Development of Science Textbook Class VII: Review of the first draft textbook development committee	30 March- 3 April, 2007
12	NCERT, DCETA, National Centre for Computer Education	Workshop for the development of Multimedia CD on learning materials: Transformation of the script into Multimedia	26-30 March, 2007
13	NCERT, DCETA	Development of Multimedia CD on learning Materials: Final scrutiny and vetting of script	5-9 March, 2007
14	NCERT, DCETA, Chacha Nehru Bhawan	Workshop for the development of Multimedia CD on learning materials : Designing and Developing the script	6-8 February, 2007
15	NCERT, DESM	Development of Science Textbook Class VII: First Planning Meeting of the Textbook Development Committee	15-17 January, 2007
16	NCERT, DESM	Development of Science Textbook Class VII: (Review Workshop)	08-14 August, 2006
17	NCET, DESM	Meeting for the Development of manuscript of the Science textbook for Class VII: Revised Draft	3-7 July, 2006
18	NCET, DESM	Meeting for the Development of manuscript of the Science textbook for Class VII: First Draft	29 May-2 June, 2006
19	NCET, DESM	Development of manuscript of the Science textbook for Class VII: First Meeting of the Textbook Development Committee	15-17 April, 2006
20	NCERT, DESM	Chemistry textbook of Class XI (Hindi Version): Review of Draft	16- 18 January, 2006
21	NCERT, DESM	Workshop for the development of the manuscript of the	21-28 November,

		Science and Technology textbook of Class VI: Revised Draft	2005
22	NCERT, DESM	Workshop for the development of the manuscript of the Science and Technology textbook of Class VI: First Draft discussion	14-18 October, 2005
23	NCERT, DESM	Workshop for the development of the manuscript of the Science and Technology textbook of Class VI	31 August - 2 Sept, 2005
24	NCERT, DESM	Reviewing the problems for Problem Book in Chemistry for Class XI	28 March - 1 April, 2005
25	NCERT, DESM	Development of Concept-based experiments in chemistry for Hr. Sec. Stage	20-24 December, 2004
26	NCERT, DESM	Quick Review of textbooks in Chemistry for XI & XII Stage	11-15 October, 2004
27	NCERT, DESM, NIE	Workshop on Development of Multimedia Package on Organic Chemistry for Sr. Sec. Level	23-27 August, 2004
28	NCERT, DESM	Assessment of Laboratory Requirements for Carrying out Practical in Sciences and Technology at Secondary Stage	17-18 September, 2003
29	NCERT, DESM	Workshop for Finalization of Tools for Evaluation of NCERT Textbooks for Higher Secondary Stage	18-20 June, 2003
30	IGNOU & UNESCO	Training in Science for teachers from SAARC countries	15.11.99
31	SCERT, New Delhi	Supplementary material for teachers at +2 level	26-27 Dec,00 & 1-3, Jan,01
32	NCERT	Dev of Textual material- secondary. Stage	11.04.02 -18.04.02 18-22 Nov., 02
33	NCERT	Dev of Textual material- secondary stage	2002

Manuscripts Reviewed

1. "Immobilization of $PdCl_2$ on natural asphalt sulfonic acid network to catalyze C-N and C-O bonds formation in DMF under a ligand free and simple conditions", *Chemistry Select* (Wiley), Year: 2022
2. "Utilization of waste derived from the silicon carbide grinding sludge and stone sludge as silicon aluminium source for the synthesis of the amine functionalized mesoporous humidity control material", *Journal of Material Cycles and Waste Management* (Springer), Year: 2021
3. "Comparison of the two carbon allotropes as solid support: catalytic efficiency of the supported metalloporphyrins for the aerobic oxidation of alcohols", *Chemistry Select* (Wiley), Year: 2021.
4. Smartphone-assisted ratiometric fluorescent sensor to quantitatively detect curcumin in traditional Chinese medicine based on Förster resonance energy transfer, *Microchimica Acta*, Year 2024.

5. Design and evaluation of a novel pyridine-thiazole hybrid adsorbent as high- capacity adsorbent for methylene blue removal from water, *scientific reports*, Year 2025

B. Technology Enabled Learning (TEL) related activities

Successively contributed to the two cycles of the **MOOC** titled, “Organic Chemistry-1” and coordinated one cycle hosted at Study Webs of Active-Learning for Young Aspiring Minds (**SWAYAM**)-an indigenous IT platform of INDIA, developed by Ministry of Human Resource Development, Government of India. The Details are as under.

- **Cycle 1:** 24.10.16 to 19.12.16
- **Cycle 2:** 16.10.17 to 10.12.17
- **Cycle 3:** 17.09.18 to 31.12.18 (Run as Coordinator of the **MOOC** with an
Enrolment of over 5000 students)

Signature of Teacher /Academic