

1. Details of the Teacher/ Academic:

Name	Prof. Lalita S Kun	nar
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 the19 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	1984-1986
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 publicatio n	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 <u>https://doi.org/10.10</u> 02/9783527841165.c <u>h1</u>
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.No	Author/ Co- author (if any)	Title	Name of Journal	Volume	Page no. (s)	Year	ISSN No
1	Smriti Rana, Yogesh Kumar, Rahul Kaushik, Lalita S. Kumar	Recent Developments in Metal-Organic Frameworks for Water Purification: A Mini Review	ChemistrySelect	Volume 9, Issue 35	e20240 3309	2024	e2024033 09 <u>https://do</u> <u>i.org/10.1</u> <u>002/slct.2</u> <u>0240330</u> <u>9</u>
2	Manhas, N., Kumar, L. S.*, & Adimule, V.	Photoluminescence and Supercapacitive Properties of Carbon Dots Nanoparticles: A Review.	Journal of Metastable and Nanocrystalline Materials,	37	1-22	2023	<u>http://dx.</u> <u>doi.org/1</u> <u>0.4028/p-</u> <u>LpI6yW</u>
3	Manhas, N., Adimule, V.* ,	Utilization of Co ²⁺ Doped Eu ₂ O ₃	Physics of Fluids	35 (10)	107-112	2023	https://do i.org/10.1



4	Lakshminarayan a, P., Keri, R., Kumar, L.S.**, Bathula, C. Kant, R.; Saini, K.; Upadhyay, R.; Amri, N.; Kumar, R.; S	Nanostructures and their Effect on the Dielectric and Photoisomerization of Liquid Crystals Design, Synthesis and Characterization of Novel 1H-1,2,3- Triazole Quinoline-	Asian J. Chem.	35	1269– 1275.	2023	063/5.01 71578 https://do i.org/10.1 4233/ajch em.2023.
5	Kumar, L. Saini, K.;	Isatin Tethered Conjugates Design, Synthesis,	RSC Adv.	13	27525-	2023	27873 https://do
	Upadhyay, R.; Kant, R.; Vajpayee, A.; Jain, K.; Kumar, A.; S Kumar, L.; Kumar, R.	Molecular Docking and DFT Studies on Novel Melatonin and Isatin Based Azole Derivatives.			27534		i.org/10.1 039/D3R A05531K
6	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.	Biotechnol Bioproc E	28	761-773	2023	https://do i.org/10.1 007/s122 57-023- 0077-5
7	Rakesh Kumar, Dhiraj Kumar, Ravindr a Kumar Upadhyay, Nidh i 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	Chemistry Select	7(41)		2022	e2022029 28 https://doi. org/10.100 2/slct.2022 02928
8	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	Chemistry Select	7 (19)		2022	2365- 6549 e2021041 29
9	Yogesh Kumar, Javaid Shabir, Padmini Gupta, Lalita S. Kumar	Design and Development of Amine Functionalized Mesoporous Cubic Silica Particles: A Recyclable Catalyst for Knoevenagel	Catalysis Letters	152	1506- 1516	2022	1011- 372X



		Condensation					
10	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)	Mater. Today Commun.	(28)	102563	2021	2352- 4928
11	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: Journal of Material Cycles and Waste Management (Springer)			2021	
12	Reviewed	Title: "Comparison of the two carbon allotropes as solid support: catalytic efficiency of the supported metalloporphyrins for the aerobic oxidation of alcohols"	Chemistry Select (Wiley)			2021	
13	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	ACS Omega	5 (22)	13250- 13258	2020	
14	Ismail, I. M., Prasad, M., Kumar, L. S.	Application of In Situ Generated Chiral Oxazaborolidine Catalyst for the Enantioselective Reduction of Prochiral Ketones, <u>http://dx.doi.org/10.3</u> <u>1638/IJPRS.V7.I4.00</u> <u>008</u>	International Journal for Pharmaceutical Research Scholars	7(4)	31-39	2018	
15	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Design, Synthesis and Characterisation of Novel Amine Derivatives of 5-[5 (Chloromethyl)-1, 3,	Bangladesh Journals online,Bangladesh/D haka University Journal of Pharma. Sciences	16(1)	11-19	2017	



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		4-Oxadiazol-2-yl]-2- (4-Fluorophenyl) Pyridine as a New Class of Anticancer Agents					
16	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	
17	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	
18	AdimuleVinaya k, Medapa Sudha, Adarsha Haramballi Jagadeesha and Kumar Sanjeev Lalita	Design, Synthesis, Characterization and Cancer Cell Growth- Inhibitory Properties of Novel Derivatives of 2-(4-Fluoro- phenyl)-5-(5-Aryl Substituted-1, 3, 4- Oxadiazol-2-yl) Pyridine	British Journal of Pharmaceutical Research	7(1)	34-43	2015	
19	SrinivasaRao Y, Chandan Kumar V, Sivalakshmi Devi A, Anantha Lakshmi P V, Lalita S Kumar	Identification, Isolation and Characterization of Process related Impurities in Irbesartan	North Asian International research Journal	(1)	92-107	2015	
20	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	
21	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	
22	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	



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23	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, LalitaS. 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-3yl- ethanone	International Journal of Pharma Sciences.	4(5)	713-717	2014
24	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
25	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
26	Vinayak Adimule, Sudha Medapa, papaya JB, Adarsha HJ, Prakash Kumar Rao, Lalita. S. Kumar	Synthesis, characterization &cytotoxic evaluation of 2-(4- fluorophenyl) substituted pyridine containing 1, 3, 4- oxadiazole moiety.	Journal of Pharma Research	3(9)	176- 179	2014
27	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
28	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
29	Vinayak Adimule, Sudha Medapa, padmashreekulk arni, Adarsha HJ Prakash	Synthesis, Characterization and Cytotoxic Evaluation of Novel Schiff Base Derivatives of 5-[2- (4-Fluorophenyl)	American Journal of Pharma Tech Research, India	4(6)	328- 337	2014



Kumar Rao, Lalita S KumarPyridin-3-yl]-1, 3, 4- Thiadiazol-2-AmineAsian Journal of Biomedical and Pharmaceutical30Vinayak Adimule,Sudha Medapa, papaya JB, Adarsha HJ, PK Rao, Lalita S KumarSynthesis and Cytotoxic evaluation of Novel 2-(4-N, N- Dimethyl) pyridine containing 1, 3, 4- oxadiazole moietyAsian Journal of Biomedical and Pharmaceutical Sciences04(37)1-531Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S KumarDesign, Synthesis, Or Novel 2-Chloro-N- (Aryl Substituted) Acetamide Derivatives of 5-[2- (4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolInternational Journal of Drug Development and Research6(4)188-32Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S.Synthesis, Characterization and Cytotoxic Evaluation of Novel Schiff BaseIndo American Journal of Pharmaceutical Research, India- USA04(12)5700	
30Vinayak Adimule,Sudha Medapa, papaya JB, Adarsha HJ, PK Rao, Lalita S KumarSynthesis and Cytotoxic evaluation of Novel 2-(4-N, N- Dimethyl) pyridine containing 1, 3, 4- oxadiazole moietyAsian Journal of Biomedical and Pharmaceutical Sciences04(37)1-531Vinayak Adimule, Sudha Medapa, Prakash KumarDesign, Synthesis, Characterization and Anticancer Properties Of Novel 2-Chloro-N- Rao, Lalita S KumarInternational Journal of Drug Development and Research6(4)188- 19532Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization and Cytotoxic Characterization Derivatives of 5-[2- (4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolIndo American Journal of Pharmaceutical Research04(12)570232Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization and Cytotoxic Evaluation of Pharmaceutical Research, India-Indo American Pharmaceutical Research, India-04(12)	2014
Adimule,Sudha Medapa, papaya JB, Adarsha HJ, PK Rao, Lalita S KumarCytotoxic evaluation of Novel 2-(4-N, N- Dimethyl) pyridine containing 1, 3, 4- oxadiazole moietyBiomedical and Pharmaceutical Sciences31Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S KumarDesign, 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-ThiolInternational Journal of Drug Development and Research6(4)188- 19532Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization and Cytotoxic Evaluation of Pharmaceutical Research, India-Indo American Journal of Pharmaceutical Research, India-04(12)5702	2014
Medapa, papaya JB, Adarsha HJ, PK Rao, Lalita S Kumarof Novel 2-(4-N, N- Dimethyl) pyridine containing 1, 3, 4- oxadiazole moietyPharmaceutical SciencesPharmaceutical Sciences31Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S KumarDesign, 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-ThiolInternational Journal of Drug Development and Research6(4)188- 19532Vinayak Adimule, Sudha Medapa, Prakash Kumar NumarSynthesis, Characterization and Cytotoxic Evaluation of Pharmaceutical Research, India-Indo American Journal of Pharmaceutical Research, India-	
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Prakash Kumar Rao, Lalita S Kumarof Novel 2-Chloro-N- (Aryl Substituted) Acetamide Derivatives of 5-[2- (4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolResearch32Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization and Cytotoxic Evaluation of Novel 2-Chloro-N- (Aryl Substituted) Pridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolIndo American Journal of Pharmaceutical Research, India-	
KumarAcetamide Derivatives of 5-[2- (4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolIndo American Journal of04(12)570032Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, and Cytotoxic Evaluation of Number of the search, India-Indo American Pharmaceutical Research, India-04(12)5700	
Derivatives of 5-[2- (4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolDerivatives of 5-[2- (4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolIndo American Journal of04(12)570932Vinayak Adimule, Sudha Medapa, Prakash Kumar Prakash KumarSynthesis, Characterization and Cytotoxic Evaluation of Number 10 biolisticsIndo American Journal of Pharmaceutical Research, India-04(12)5709	
32Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization Bublic December 2010Indo American Journal of Pharmaceutical Research, India-04(12)570332Vinayak Adimule, Duck December 2010Synthesis, Characterization Bublic December 2010Indo American Journal of Pharmaceutical Research, India-04(12)5703	
Pyridin-3-yl]-1, 3, 4- Oxadiazole-2-ThiolPyridin-3-yl]-1, 3, 4- Oxadiazole-2-Thiol32Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization and Cytotoxic Evaluation of Number of Pharmaceutical Research, India-Indo American 04(12)04(12) 5710	
Oxadiazole-2-ThiolOxadiazole-2-Thiol32VinayakSynthesis,Indo American04(12)5703Adimule,CharacterizationJournal of5710Sudha Medapa,and CytotoxicPharmaceutical5710Prakash KumarEvaluation ofResearch, India-100	
32Vinayak Adimule, Sudha Medapa, Prakash KumarSynthesis, Characterization and Cytotoxic Evaluation ofIndo American Journal of Pharmaceutical Research, India-04(12)570332Vinayak Adimule, Structure, Pharmaceutical Research, India-Synthesis, 04(12)5703	
Adimule, Sudha Medapa, Prakash KumarCharacterization and Cytotoxic Evaluation of Number 10 1100 Pharmaceutical Research, India-5710 5710	
Sudha Medapa, Prakash Kumarand Cytotoxic Evaluation of Number of Pharmaceutical Research, India-	
Prakash Kumar Evaluation of Research, India-)
USA	
Kumar Derivatives of 5-[2-	
(4-Fluorophenyl)	
Pyridin-3-yl]-1, 3,	
4-Thiadiazol-2-	
Amine	
33VinayakDesign, Synthesis,International4(7)84-9	3 2014
Adimule, Sudha Characterization and Bulletin of Drug	
Medapa, Cytotoxic Evaluation Research	
Prakash Kumar of Novel 2-Chloro-N-	
Rao, Lalita S (Aryl Substituted)	
Kumar Acetamides Derivatives of 5-[2-	
Phenyl Pyridin-3-yl]-	
1, 3, 4-Oxadiazole-2-	
Thiol	
34 VinayakAdimul Synthesis, International Journal 3(12) 20-2	5 2014
e, Sudha Characterization, in of Pharma Research	
Medapa, vitro Anticancer and Review	
Adarsha HJ, Properties of 1-{5-	
Prakash Kumar Aryl-2-[5-(4-Fluoro-	
Rao, Phenyl)-Thiophen-2-	
Lalita S. Kumar yl]-[1, 3, 4]	
Oxadiazol-3-yl}-	
Ethanone35VinayakSynthesis,International Journal4(4)180-	2014
35VinayakSynthesis,International Journal4(4)180-Adimule, Sudhacharacterization ofof Pharmacological185	2014
Medapa, some novel 1, 3, 4- Research	
Adarsha HJ, oxadiazole	
Padmashree compounds	
Kulkarni, containing 8-hydroxy	
Prakash Kumar quinolone moiety as	
Rao, Lalita S. potential antibacterial	
Kumar and anticancer agents	
36VinayakAdimuSynthesis,International4, No. 3	2014
36VinayakAdimuSynthesis,International4, No. 3le,SudhaMedaCharacterization	2017



25	pa, Prakash Kumar Rao,Lalita.S. Kumar	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	Journal of Pharmaceutical Chemistry				
37	VinayakAdimu le,SudhaMeda pa, 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	
38	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/Journ al of heterocyclic Chemistry	9(5)	42-48	2014	
39	Lalita S Kumar and Sanjiv Kumar	Quality Assured Delivery of Post Graduate Diploma in Analytical Chemistry using Vedyadhara Open e-Learning Environment (VOLE), Article	Creative Sparks of Innovation, NCIDE, IGNOU		87	2013	
40	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	
41	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	П	1-9	2011	
42	Lalita S. Kumar	Course Evaluation: A	Indian Journal of	18 (2)	63-76	2009	
42	and Bharat Inder Fozdar Bharat Inder	Holistic Approach In-service Teacher	Open and Distance Learning Malaysian Journal of	9(2)	65-87	2007	



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	Fozdar, Lalita S Kumar and Anurag Saxena	Training Programme Effectiveness: An analysis of learner opinion on the effectiveness of the Programme	Distance Education			
44	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
45	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
46	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
47	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
48	Sanjiv Kumar and Lalita S Kumar	SI Units for Chemists	Chemistry Education Review	14(4)	25-32	1999
49	V.K. Ahluwalia, Lalita Nayal, Shashi Bala and Sudha Raghav	2-Pheny1-6- cinnamoylchromans as Synthones for 2- Amino and 2- Mercapto-4, 5- substituted thiazoles	Indian J. Chem	27B	72-73	1988
50	V.K. Ahluwalia, Lalita Nayal and Shashi Bala	Synthesis of Some 2- Amino-6-aryl-4- dihydrobenzopyrany1 pyrimidines as potential antifungal &antibacterial agents	Indian J. Chem.	27В	193-194	1988
51	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
52	V.K. Ahluwalia, Lalita Nayal, Shashi Bala and Sudha Raghav	Acid Catalysed Condensation of Isoprene with hydroxypropiophenon es : Synthesis of 2,2- dimethylchromans and some new 2- amino & 2-mercapto- 4-aryl-5- methylthiazoles	Indian J. Chem.	27B	629	1988
53	V.K. Ahluwalia, Lalita Nayal, Neelu Kaila,	Synthesis & Antimicrobial Activity of	Indian J. Chem.	26B	384	1987



Shashi Bala	Substituted 3,4-			
Singh and A.K.	Dihydro-2H-1-			
Tehim	benzopyrans			

5. Policy Documents Reports/ Mimeos: Nil

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

5. MOOCs/ eSLMs/ eModules developed :

S.	Author/	Title	Cred	Level	Host	Year	Weblink
No.	Co- author (if any)		its		Portal: (SWAYAM/ NPTEL/ NMEICT/ ePG Pathshala/		
Unit	- I: Mecha	nism of Organic Reaction	ns, B. S		ar, Paper cod		
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 and intermediates		B.Sc.	SWAYAM	2014-15	https://www.youtube.com/ watch?v=1CMyPwGrmk0
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 Pan	er – II: Alkyl and Aryl H	[alides				
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=PLOnJQiDsowogkS RUXJZe7552OJosPLzx9 &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=PLOnJQiDsowogkS RUXJZe7552OJosPLzx9 &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=ebeSQY17HyU& list=PLOnJQiDsowogkSR



4	Prof. Lalita S Kumar	Alkyl and Aryl halides-IV:Reactions of Alkyl Halides – I	B.Sc.	SWAYAM	2014-15	UXJZe7552OJosPLzx9&i ndex=36 https://www.youtube.com/ watch?v=EkJRm2q7Ll4&1 ist=PLOnJQiDsowogkSR UXJZe7552OJosPLzx9&i ndex=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=PLOnJQiDsowogkS RUXJZe7552OJosPLzx9 &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=PLOnJQiDsowogkS RUXJZe7552OJosPLzx9 &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&lis t=PLOnJQiDsowogkSRU XJZe7552OJosPLzx9&ind ex=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		ithor/ Co	Title of	Name	Conference/	City	Date and
Ν		thor	presentation,	Organizing	Workshop		Year
		any)	/Talk/Lecture	institute			est and ma
	1.	V.Mallikarj	Photocatalytic	PG & Research	2nd International	Tamil	1 st -2 nd Feb
		una Sarma,	Properties Of	Deptt of Physics	Virtual Conference	Nadu,	2024
		К.	Transition Metal	Seethalakshmi	on Materials Science	India	
		Subramany	Doped	Ramaswami	and Applications		
		am	Cus Magnetic	College	(ICMSA-2024)		
		Lalita	Nanoparticles				
		S	Towards Waste				
		Kumar	Water				
			Treatment				
	2.	Smriti	"Photocatalytic	Department of	International	New	27th-29th
		Rana,	Degradation of	Chemistry	Conference on	Delhi	January,
		Yogesh	Dye in	Under the aegis	Chemical and		2024
		kumar,	Wastewater by	of, IQAC,	Biological Sciences		
		Rahul	Hybrid Zinc	Atma Ram	(ICCBS)		
		Kaushik,	Metal-Organic	Sanatan Dharma			
		Lalita S	Framework"	College, DU			
		Kumar		-			
	3.	Mallikarjun	"Photocatalytic	Department of	International	New	27th-29th
		a Sarma,	Degradation of	Chemistry	Conference on	Delhi	January,
		Subramany	Profenofos	Under the aegis	Chemical and		2024
		am and	Pesticide in	of, IQAC,	Biological Sciences		
		Lalita S	Agricultural	Atma Ram	(ICCBS)		
		Kumar	Runoffs by	Sanatan Dharma			
			Pristine ZnO	College, DU			
			Nanostructures"				
	4.	Prasanta	"Conformation	Department of	International	New	27th-29th
		Kumar Nag	Studies Through	Chemistry	Conference on	Delhi	January,
		and Lalita	DFT Scanning of	Under the aegis	Chemical and		2024
		S Kumar	Dihedral Angle	of, IQAC,	Biological Sciences		-



r				(LCCDC)		
		and Estimation of Specific Rotation of Chiral Drugs"	Atma Ram Sanatan Dharma College, DU	(ICCBS)		
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	"Immbolization 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 L, Dr. Rangappa Keri, Dr. Lalita S Kumar , Dr. Chinna Bathula	Utilization of Co^{2+} Doped Eu_2O_3 Nanostructures and their Effect on the Dielectric and Photoisomerizati on of Liquid Crystals	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
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	International Conference on Designing a Sustainable Future: Advances and Opportunities in Green	University of Ladakh, Green Chemistry Network Centre and Indian Society of Analytical scientists	Leh, Ladakh	3 rd to 5 th July, 2023.
		Theory	Chemistry (ICGC - 2023)			



12.	Manhas, Dr. Vinayak Adimule , Dr. Parashuram L, Dr. Rangappa Keri, Dr. Lalita S Kumar , Dr. Chinna Bathula Ravi Kant	Co ²⁺ : SeO ₂ Liquid Crystal Nanostructures on Enhanced Photoluminescen ce and Photo isomerization Properties	University, Kottayam, Kerala, India National	Conference on Nano Structured Materials and Polymers (ICNP) Department of	India	14, 2023. 29 th – 30 th
	and Lalita S Kumar	Novel Triazole Substituted Dibenzosubranes as Multidrug Resistance Modulators'	Conference on 'Current trends and Futuristic Challenges in Chemical Sciences'	Chemistry, Osmania University, Hyderabad		July 2022.
13.	Lalita S Kumar (Session Chair)	Biodegradation & Bioremediation	School of Interdisciplinary and Trans- disciplinary Studies, IGNOU	International Conference: Environmental and Ecological Sustainabllity: 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 Sustainabllity: Engaging the Stakeholders	IGNOU, New Delhi	4-5 October, 2018
15.	Lalita S Kumar	Research Ethics	UGC-HRD Centre (Academic Staff College) G. J. University of Science & Technology	UGC sponsored Refresher course on Research Methodology	Hissar, Haryana	November , 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



·		1	1	1	1	-
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 for Effective Implementation"	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
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
	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 Coordinati on with	Question bank for AEC-01 course	NCIDE, IGNOU	On Demand Examination	New Delhi	7 th to 9 th Sept., 2009



	NCIDE					
30.	Lalita S	A study of the	The International	International	New	19-23
	Kumar and	Factors	Council on	Conference on "Open	Delhi,	Nov. 2005
	B I Fozdar	Responsible for	Distance	and Distance	India	
		Dropout of B.Sc.	Education	Education		
		Students of	(ICDE), IGNOU			
		IGNOU				

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

SNo.	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	Pursuing
8	Ms. Brijesh Kumari (202492812)	July 2020	Pursuing
9	Mr. V. Mallikarjun Sarma (202492962)	July 2020	Pursuing
10	Ms. Nidhi Manhas (202493220)	July 2020	Pursuing
11	Mr. P. K. Nag (202493410)	July 2020	Pursuing
12	Ms. Smriti Rana (210270143)	July 2021	Pursuing

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

S. No.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/ Written/ Edited (content/ Language/ Format)/ Translated	Period
1	Ph.D. (Chemistry)	RCH-001, Research Methodology RCH-003, Analytical	 Ethical issues in conducting chemical research Safety issues, Chemical Hazards and their management Research problem and Hypothesis Gas chromatography High Performance Column 	Face to Face Teaching	2017- till date



		Techniques in ChemII	Chromatography		
		RCHE-001, Advances in Organic Chemistry	 Asymmetric synthesis Organosilicone compounds Homogeneous hydrogenations Oxidations Principles of green chem. and its applications 		
		MCH 422, Organic Reaction Mechanism	Units I, II and III	Face to Face Teaching	
2	M.Sc. Chem. on Campus	MCH 426, Chemistry Lab V	Chemistry Lab V	Lab work	2009- 2013
	Coordinator for MCH-543	MCH 512, Reactions for Organic Synthesis	Units II, III and IV	Face to Face Teaching	2010
		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. (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 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	Coordination and content writting	2021 till date
	M.Sc. (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	Coordination and content writing	2021 till date



	1			1	
			Unit-7 The Immune System		
			Unit-8 Genetics and Molecular		
	140	1.000	Biology		-
	M.Sc.	MCH-017	Unit-17 Asymmetric Synthesis	Content writing	2021
	(Chemistry)	Organic			till
	Sem-I	Chemistry-II			date
	M.Sc.	MCH-022	Unit-9, UV-Visible Spectrometry	Content writing	2024
	(Chemistry)	(Separation and	Unit-10, IR and Raman	Content writing	till
	Sem-III	Spectroscopic	Spectrometry		date
	Sem m	Methods)	Unit-11, Fluorimetry and		uate
		wiedlous)	Phosphorimetry		
			Unit-12, Atomic Absorption and		
			Emission Spectrometry		
			Unit-13, ¹ H NMR Spectroscopy		
			Unit-14, Two-Dimensional NMR		
			Spectroscopy		
			Unit-15, ¹³ C NMR Spectroscopy		
			Unit-16, High Resolution Mass		
			Spectrometry		
			Unit-17, Hyphenated Techniques		
	M.Sc.	MCH-023	Unit-1, Nature and Formation of	Coordination and	2024
	(Chemistry)	(Environmental	Soil	content writing	till
	Sem-III	Chemistry)	Unit-2, Soil Quality Parameters		date
			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		
		MOLLOOK	and Control		2024
	M.Sc. (Chemistry)	MCH-026	Unit-1, UV-Visible Spectroscopy:	Coordination and	2024
	(Chemistry) Sem-IV	(Spectroscopic Study Of Organic	Some Basic Concepts Unit-2, UV-Visible Spectra of	content writing	till date
	Sem-1 v	Compounds)	Some Illustrative Compounds		uale
		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 ¹ H NMR Spectroscopy		
			Unit-7 Complex NMR Spectra		
			Unit-8 Applications of NMR		
			Spectroscopy		
			Unit-9 Introduction to2D-NMR		
			Unit-10 13CNMR Spectroscopy		
			Unit-11 Applications of DEPT,		
			INEPT and 13CNMR Spectroscopy		
4	M.Sc.	MEC-01,	Unit-1, Basic Analytical	Self Written	2017-
	(Environmenta	Environmental	Techniques		till
	1 Sciences	Chemistry		Self written	date
	SOITS		Unit -4, Chromatographic		
			Techniques	Vetting	
		CHE-01, Atoms	Unit-1, Old Quantum Theory	Vetting	
		And Molecules	Unit-2, Wave Mechanics		
1	1			1	



		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	1989- till date
	Bachelor of	CHE-03L, Chemistry Lab I	Unit-1, Laboratory Techniques and Procedures Unit-4, Estimation of Iron Unit-5, Estimation of Copper	Transformation and Vetting	
5	Science (B.Sc.), SOS		Unit-1, Reaction Mechanism – Introduction		
			Unit- 2, Kinetics and Mechanism of Reactions	Transformation and Vetting	
		CHE-06, Organic Reaction	Unit-3, Aliphatic Nucleophilic Substitution		
		Mechanism	Unit-4, Aromatic Electrophilic and Nucleophilic Substitution		
			Unit-5, Carbon-Carbon multiple bond addition	Vetting	
			Unit-6, Addition in Carbonyl Compounds		
			Unit-7, Elimination Reaction		
			Unit-8, Oxidation and Reduction		
			Unit-9, Carbene, Nitrene and Benzyne		
			Unit-10, Free Radicals		
			Unit-11, Molecular Rearrangements		
			Unit-12, Pericyclic Reactions		
			Unit-5, Proteins		1994- till
			Unit-6, Enzymes		date
		CHE-09, Biochemistry	Unit-7, Vitamins, Co-enzymes and Minerals	Coordination,	
		Generalized	Unit-8, Bioenergetics	Transformation and	
		Coordinator	Unit-9, Metabolism –I	Vetting	
			Unit-10, Metabolism –II		
			Unit-11, Regulation of Metabolism		
			Unit-12, Photosynthesis		
			Unit-1, Nature and Formation of Soil		
			Unit-2, Soil Quality Parameters	Coordination,	
			Unit-3, Soil fertility and evaluation	Transformation and	
			Unit- 7, Atmosphere: Nature &	Vetting	
		AEC-01,	Importance Unit-8, Meteorological Aspects of		2003-
		Environmental	Air Pollution		till
		Chemistry	Unit-9, Air Pollutants Unit-10, Air Quality Monitoring		date
		Coordinator	and Control Ex-3, Determination of Percent Organic Matter Content in a Soil		
			Sample	Self Written and	



		BCHCT-131,	Ex-4, Determination of Total Available Nitrogen in a Soil Sample Ex-5,Determination of Available Sulphur in a Soil Sample Ex-6, Determination of Available Phosphorus in a Soil Sample Ex-7, Determination of Extractable Manganese and Iron in a Soil Sample	Vetting	
6		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
	Bachelor of Science (B.Sc.), SOS as per CBCS	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
		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	Course Team Member		
		BCHCT-137, and BCHCL-138 Coordination Chemistry, States of Matter and Chemical Kinetics			



	BCHET-141 and	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 Coordinator	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	Self written and vetting	
	BCHEL-150, Molecules of Life: Laboratory Coordinator	Unit-17 Metabolism of Lipids and ProteinsExpt. 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		_
	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	Coordination and content writing	2023 onwar ds



			Hazards		
			11424140		
7	Bachelor of Science (Multidisciplin ary) (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
7	Post Grad. Diploma in	MCH-003, Spectroscopic Methods Coordinator	Unit-3: Infra Red Spectrometry Unit-4; Raman Spectrometry Unit-11; Applications of AAS and AES Unit-12: NMR Spectroscopy Unit-13: Mass Spectrometry	Transformation	2007- till date
7	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 p K_a of an indicator using spectrophotometry	Transformation	2007- till date



8	PG Diploma in Pharmaceutica I 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-I I	Transformation	2009- tilldate
9	PG Diploma in Pharmaceutica l 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 MVEL-002: Separation and Spectral Methods of	Full Course Full Course	Content, Language and Format Editing Content, Language and Format Editing	-
		Analysis MVP-001, Food Fundamentals and Chemistry	Unit-5, Water Unit-6, Carbohydrates Unit-7, Carbohydrates Unit-8, Lipids Unit-9, Vitamins and Minerals Unit-10, Food Additives	Self Written	2007- 2008
10	PG Diploma in Food Safety and Quality Management, PGDFSQM (SOA)	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	Member of the Course Teams	Course Team Member	2007- 2008



11	PG Diploma in Env. and Occupational Health (PGDEOH)	Auditing MVPL-002, Chemical Analysis and Quality Assurance 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
12	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
13	Certificate in Pharmal Sales Management, CPSM SOVET		Member, Programme and Course Expert Committee Phase-I approved		July, 2008 till date
14	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 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	Transformation and Vetting	2001-2016
15	Revised Certificate Programme in Laboratory Techniques (CPLT)	CLT-101, Good Laboratory Practices Coordinator	Unit-8, Electricity and Gas Hazards Unit-9, Fire Hazards Unit-10, Chemical and Biological Hazards	Transformation and Vetting	2014- till date
	Coordinator	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	Transformation and Vetting	2014- till date



	Laboratory Ex- 10: Classification and Handling of Hazardous Chemicals	

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	$23^{\rm rd} - 26^{\rm th}$ 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	MSCANCHEM	IGNOU,	21.07.2024	1 Hour	IRC
	Chemistry – A distance		Delhi			
	education programme from					
	IGNOU					
	An introduction to B.Sc.	BSCM	IGNOU,	18.03. 2024	1 Hour	IRC
	Multidisciplinary Programme		Delhi			
	CPLT and PGDAC	CPLT and	IGNOU,	18.06.2023	1 Hour	IRC
	programmes for the	PGDAC	Delhi			



	prospective learners of July 2023 Session	programmes				
	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	Teleconferen cing
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	Teleconferen cing
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	1 ¹ / ₂ Hours	EDUSAT
24	PGDAC Programme	MCH-001,	IGNOU,	12.01.2010	2 Hours	EDUSAT



	Induction, PGDAC	002, 003, 004	Delhi			
		MCHL-001,	Denn			
		002, 003,004				
25	IRC of the whole course and	AEC-01	IGNOU,	24.8.10	1 Hour	IRC
	pollution in specific, B.Sc.		Delhi			
26	Post Graduate Diploma in	MCH-001,	IGNOU,	07.05.2010	2 Hours	EDUSAT
	Analytical Chemistry:	002, 003, 004	Delhi			
	An Overview, PGDAC	MCHL-001,				
		002, 003, 004				
27	IRC of the programme in	All the Chem	IGNOU,	17.1.10	1 Hour	IRC
	general B.Sc.	courses in	Delhi			
20	IDC (1	general	ICNOU	11.0.00	1.11.	mc
28	IRC of the programme-general CPLT	LT-1, 2, 3 and 4	IGNOU,	11.8.09	1 Hour	IRC
29	IRC of the programme in	4 All the Chem.	Delhi IGNOU,	18.10.09	1 Hour	IRC
29	general B.Sc.	courses in	Delhi	16.10.09	1 Houi	IKC
	general D.Sc.	general	Denn			
30	On Handling of lab	CHE-	IGNOU,	2.6.09	1 Hour	IRC
50	component of Chemistry	03(L),CHE07	Delhi	2.0.07	1 Hour	ince
	courses B.Sc.	L, CHE-08(L),	Denn			
		CHE-11(L),				
		CHE-12(L)				
31	Aromatic Hydrocarbons: (In	CHE-05	IGNOU,	02.01.2009	1 Hour	EDUSAT
	Hindi), B.Sc.		Delhi			
32	Reactions of the carbon-	CHE-06	IGNOU,	01.05.2009	1 Hour	EDUSAT
	carbon double bond, B.Sc.		Delhi			
33	On Handling of lab	CHE-	IGNOU,	21.9.08	1 Hour	IRC
	component of Chemistry	03(L),CHE-	Delhi			
	courses B.Sc.	07L, CHE-				
		08(L), CHE-				
		11(L), CHE- 12(L)				
34	B.Sc.	Recording of	IGNOU,	5.11.08	1 Hour	GyanVani
54	D.5C.	Gyan Vani	Delhi	5.11.00	1 Hour	recording
		Studio at	Denn			recording
		EMPC				
35	Aromatic Hydrocarbons: (In	CHE-05	IGNOU,	04.01.2008	1 Hour	EDUSAT
	Hindi)		Delhi			
36	IRC of the programme in	LT-1, 2, 3 and	IGNOU,	16.10.07	1 Hour	IRC
	general	4 (CPLT)	Delhi			
37	Aromatic Hydrocarbons – III,	CHE-05	IGNOU,	07.09.2007	1 Hour	EDUSAT
	B.Sc.		Delhi			
38	Aromatic Hydrocarbons IV,	CHE-05	IGNOU,	05.10.2007	1 Hour	EDUSAT
	B.Sc.		Delhi			
39	IRC for course in general	AEC-01 (B.	IGNOU,	5.6.2007	1 Hour	IRC
		Sc.)	Delhi			
40	Stereochemistry – II, B.Sc.	CHE-05	IGNOU,	05.01.2007	1 Hour	EDUSAT
			Delhi			
41	Aromatic Hydrocarbons:	CHE-05	IGNOU,	27.04.2007	1 Hour	EDUSAT
1.5	Aromaticity		Delhi			
42	On Handling of lab	CHE-03(L),	IGNOU,	4.11.07	1 Hour	IRC
	component of Chemistry	07(L), 08(L),	Delhi			
40	courses B.Sc.	11(L), 12(L)	IONOTI	04.05.0005	1.17	
43	Aromatic Hydrocarbons II,	CHE-05	IGNOU,	04.05.2007	1 Hour	EDUSAT
4.4	B.Sc.		Delhi	4.2.07	1.11	IDC
44	IRC of the programme in	LT-1, 2, 3 and	IGNOU,	4.2.07	1 Hour	IRC
15	general	4 (CPLT)	Delhi	21.02.2007	1.11.	
45	Atmospheric Pollution	ACE	IGNOU,	21.03.2007	1 Hour	EDUSAT
	Causes and concerns, BDP	1	Delhi			



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	Teleconferen cing
49	Importance of virtual lab for distance science learners	Lab Courses	NCIDE, IGNOU, Delhi	26.12.06	1 Hour	Two way Video Teleconferen cing
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	Nucleophilicsubstitution,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	Teleconferen cing
63	Teleconferencing for Induction		IGNOU, Delhi	19.09.2005	1 Hour	Teleconferen cing
64	Session on the experiments of Chem lab courses	CHE-03(L)	IGNOU, Delhi	9.3.2005	1 Hour	IRC
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, NIE Campus	Development of interactive multimedia learning objects on science concepts for classes IX and Xth: Script development	8- 10 September, 2008
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 Science and Technology textbook of Class VI: Revised Draft	21-28 November, 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

- "Immobilization of PdCl₂ 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

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