

PROFILE
TO BE FILLED BY TEACHER/ ACADEMIC
(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)
1. Details of the Teacher/ Academic :

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

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

S. No.	Name of the recipient,	Honour /Award/ Fellowship name	Agency name /Name of statutory body/ institution/ Apex body	Period
1	Lalita S Kumar	One of the Experts	Doctoral Research Committee (SOITS)	Dec. 2016 till date
2	Lalita S Kumar along with others	Member	UGC, CBCS Committee of IGNOU	May, 2016 to 2018
3	Lalita S Kumar	Member	School Board (School of Tourism and Hospitality Services Management)	2016-2018
4	Raunaq, Lalita S Kumar , S. V. Arya, Neera Singh and Shashi Singh	Best Poster in National Symposia	Indian Agricultural Research Institute, Delhi	2015
5	Lalita S Kumar	Member	School Board (School of Agriculture)	2013-2015
6	Lalita S Kumar	Member	School Board (School of Engineering and Technology)	2012-2014
7	Lalita S Kumar and Sanjiv Kumar	Gold medal for Innovation in Open and Distance learning” in sharing	IGNOU, in the 22 nd Convocation	2011
8	B.I. Fozdar and Lalita S Kumar	“Gold medal for the Best Research Paper award”	IGNOU, in the 19 th Convocation	2008
9	Lalita S Kumar	Member	School Board (School of Sciences)	2006-2008, 2010-2012, 2016- till date

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10	Lalita S Kumar	Member	Academic Council (IGNOU)	2001-2003
11	Lalita S Kumar	Life Member	Indian Society of Analytical Scientists	2000-till date
12	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 N

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	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)
2	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	Pages	Year
1.	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.I4.00008	<i>International Journal for Pharmaceutical Research Scholars</i>	7(4)	31-39	2018
2.	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

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3.	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
4.	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
5.	AdimuleVinayak, 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
6.	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
7.	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
8.	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
9.	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
10.	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-3-yl]-ethanone	International Journal of Pharma Sciences.	4(5)	713-717	2014

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11.	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
12.	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
13.	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
14.	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
15.	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
16.	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
17.	Vinayak Adimule, Sudha Medapa, papaya JB, Adarsha HJ, Prakash Kumar 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
18.	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

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19.	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S Kumar	Design, Synthesis, Characterization and Cytotoxic Evaluation of Novel 2-Chloro-N-(Aryl Substituted) Acetamides Derivatives of 5-[2-Phenyl Pyridin-3-yl]-1, 3, 4-Oxadiazole-2-Thiol	International Bulletin of Drug Research	4(7)	84-93	2014
20.	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
21.	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
22.	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
23.	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
24.	Lalita S. Kumar and Bharat Inder Fozdar	Course Evaluation: A Holistic Approach	Indian Journal of Open and Distance Learning	18 (2)	63-76	2009
25.	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
26.	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
27.	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

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28.	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
29.	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
30.	Sanjiv Kumar and Lalita S Kumar	SI Units for Chemists	Chemistry Education Review	14(4)	25-32	1999
31.	V.K. Ahluwalia, Lalita Nayal, Shashi Bala and Sudha Raghav	2-Phenyl-6-cinnamoylchromans as Synthones for 2-Amino and 2-Mercapto-4, 5- substituted thiazoles	Indian J. Chem	27B	72-73	1988
32.	V.K. Ahluwalia, Lalita Nayal and Shashi Bala	Synthesis of Some 2-Amino-6-aryl-4-dihydrobenzopyranyl pyrimidines as potential antifungal &antibacterial agents	Indian J. Chem.	27B	193-194	1988
33.	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
34.	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-mercapto-4-aryl-5-methylthiazoles	Indian J. Chem.	27B	629	1988
35.	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/ Mimeos: Nil

S. No.	Title	Institution/ Agency	Year

6. Book Review published : Nil

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S. No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No

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

S. No	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference/Workshop	City	Date and Year
1	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
2	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
3	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
4	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
5	Lalita S Kumar and B.I. Fozdar	Researching Student Workload	STRIDE, IGNOU	Course work on Research Methodology	New Delhi	September, 2018
6	Lalita S Kumar and B.I. Fozdar	Researching Student Workload	STRIDE, IGNOU	Course work on Research Methodology	New Delhi	December, 2017

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7	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
8	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
9	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
10	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, India	National Conference celebrating International Year of Chemistry 2011	New Delhi	13th-14th October, 2011
11	Lalita S Kumar and Manisha, Poster presentation	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
12	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 November, 2010
13	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
14	Lalita S Kumar as a panelist along with members	Consolidation of Learner Support Services	RSD, IGNOU	Learners’ Conference	New Delhi	16 th May 2010
	Lalita S Kumar	Alternative models of course development in the changing scenario of	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	New Delhi	March 22 nd to 27 th 2010

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		ODL				
15	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
16	Joint Coordination with NCIDE	Question bank for AEC-01 course	NCIDE, IGNOU	On Demand Examination	New Delhi	7 th to 9 th September, 2009
17	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 November 2005

8. Study Tour Organised/ Participated/ Attachment Organized/Internship: Nil

S. No.	Details of the tour	Name of coordinating body	Duration

9. Consultancy assignment (if any): Nil

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

10. 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

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

S. No.	Name and enrolment no:	Year of registration	Year of completion/ award

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1	Y. Srinivasa Rao	24 th May 2011	2017
2	Vinayak Adimule	31 st August 2012	2016
3	Raunaq	10 th September 2012	Submitted, July, 2019
4	Inamdar Murad	January 2013	Submitted, February, 2019
5	Ravikant	January 2017	Pursuing
6	Ankita	December 2017	Pursuing
7	Yogesh	December, 2017	Pursuing

12. Details of Programmes/ Courses coordinated/ written/ edited/ translated:

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	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. HPLC		
		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	

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		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)		Phase I approved from SB, SOS		2010 till date
4	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
5	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	
		CHE-06, Organic Reaction Mechanism	Unit-1, Reaction Mechanism – Introduction Unit- 2, Kinetics and Mechanism of Reactions Unit-3, Aliphatic Nucleophilic Substitution Unit-4, Aromatic Electrophilic and Nucleophilic Substitution	Transformation and Vetting	

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		CHE-06, Organic Reaction Mechanism	Unit-5, Carbon-Carbon multiple bond addition 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	Vetting	
		CHE-09, Biochemistry Coordinator	Unit-5, Proteins Unit-6, Enzymes Unit-7, Vitamins, Co-enzymes and Minerals Unit-8, Bioenergetics Unit-9, Metabolism –I Unit-10, Metabolism –II Unit-11, Regulation of Metabolism Unit-12, Photosynthesis	Transformation and Vetting	1994-till date
			Unit-1, Nature and Formation of Soil Unit-2, Soil Quality Parameters Unit-3, Soil fertility and evaluation Unit- 7, Atmosphere: Nature & Importance Unit-8, Meteorological Aspects of Air Pollution Unit-9, Air Pollutants	Transformation and Vetting	

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		AEC-01, Environmental Chemistry Coordinator	Unit-10, Air Quality Monitoring and Control Ex-3, Determination of Percent Organic Matter Content in a Soil Sample 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	Self Written and Vetting	2003-till date
6	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 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	
		BCHCT-133, Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I BCHCL-134, Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I,: Laboratory			

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		BCHCT-135, Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II BCHCL-136, Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II: Laboratory BCHCT-137, Coordination Chemistry, States of Matter and Chemical Kinetics BCHCL-138, Coordination Chemistry, States of Matter and Chemical Kinetics : Laboratory BCHET-141, Analytical Methods in Chemistry BCHEL-142, Analytical Methods in Chemistry Laboratory	Course Team Member Yet to be developed		
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		BCHET-147, Organometallics, Bioinorganic Chemistry, PolynuclearHyderocarbo ns and UV, IR Spectroscopy BCHEL-148, Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy : Laboratory BCHET-149, Molecules of Life Coordinator BCHEL-150, Molecules of Life: Laboratory Coordinator	Vth Semester Courses Unit Writing and Transformation to start		
7	Post Graduate Diploma in Analytical Chemistry (PGDAC) Programme Coordinator	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

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		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	Transformation	2007-till date
8	PG Diploma in Pharmaceutica l 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

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		MVE-014: Separation and Thermal Methods	Full Course	Content, Language and Format Editing	
		MVEL-002: Separation and Spectral Methods of Analysis	Full Course	Content, Language and Format Editing	
10	PG Diploma in Food Safety and Quality Management, PGDFSQM (SOA)	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
		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	Member of the Course Teams	Course Team Member	2007-2008
11	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	Course Editing	2018-till date

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			Unit-6, Radiation Pollution Unit-7, Water Pollution Unit-8, Electronic Waste Pollution		
12	PG Certificate 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 Pharmaceutica l 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	2003- 2016

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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 Laboratory Ex- 10: Classification and Handling of Hazardous Chemicals	Transformation and Vetting	2014- till date

- Courses/ Units translated and period
- Audio programmes (title, Course, period)
- Video programmes(title and Course, period)

Video Programme” Just break the triangle” (LT-01 and CLT-101) in English and Hindi, 2002
13. Training programmes designed and conducted, duration and dates

S. No.	Programme	Dates	Place	Number of Participants
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

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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

14. Details of Counselling sessions conducted: Mode (Specify-Face to Face/Radio counselling /Teleconferencing/ Web conferencing/Any Other)

S. No.	Programme	Course	Place	Dates	Duration	Mode
1	Teleconferencing, B.Sc.	CHE-05	IGNOU, Delhi	20.02.2019	1 Hour	Teleconferencing
2	IRC-1 st Block, B.Sc.	CHE-06	IGNOU, Delhi	20.01.2019	1 Hour	IRC
3	Teleconferencing for Academic Counselors, CPLT	All Courses	IGNOU, Delhi	10.09.2018	1 Hour	Teleconferencing
4	IRC, CPLT	All Courses	IGNOU, Delhi	10.05.2018	1 Hour	IRC
5	IRC of the programme in general, PGDAC	MCH-001, 002, 003, 004 MCHL-001, 002, 003,004	IGNOU, Delhi	5.3.13	1 Hour	IRC
6	Audio Recording under "IGNOU Time", SOS	About all SOS programmes	IGNOU, Delhi	3.7.13	1 Hour	Audio Recording
7	Free Radicals IV, B.Sc.	CHE-06	IGNOU, Delhi	01.03.2013	1 Hour	EDUSAT
8	Free Radicals III, B.Sc.	CHE-06	IGNOU, Delhi	01.02.2013	1 Hour	EDUSAT
9	IRC of the programme in general, CPLT	LT-1, 2, 3 and 4	IGNOU, Delhi	9.10.12	1 Hour	IRC
10	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
11	Free Radicals I, B. Sc.	CHE-06	IGNOU, Delhi	06.07.2012	1 Hour	EDUSAT
12	Free Radicals II (2nd session), B. Sc.	CHE-06	IGNOU, Delhi	06.07.2012	1 Hour	EDUSAT

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13	Essentials of Pharmaceutical Chemistry-II, PGDPSM	MVE-001	IGNOU, Delhi	25.05.2012	1 Hour	EDUSAT
14	Oxidation and Reduction (2 Sessions), B.Sc.	CHE-06	IGNOU, Delhi	07.01.2011	2 Hours	EDUSAT
15	Essentials of Pharmaceutical Chemistry-I, PGDPSM	MVE-001	IGNOU, Delhi	25.03.2011	1 Hour	EDUSAT
16	Organic Reaction Mechanism: Eliminations, B.Sc.	CHE-06	IGNOU, Delhi	01.07.2011	1½ Hours	EDUSAT
17	PGDAC Programme Induction, PGDAC	MCH-001, 002, 003, 004 MCHL-001, 002, 003, 004	IGNOU, Delhi	12.01.2010	2 Hours	EDUSAT
18	IRC of the whole course and pollution in specific, B.Sc.	AEC-01	IGNOU, Delhi	24.8.10	1 Hour	IRC
19	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
20	IRC of the programme in general B.Sc.	All the Chem courses in general	IGNOU, Delhi	17.1.10	1 Hour	IRC
21	IRC of the programme in general CPLT	LT-1, 2, 3 and 4	IGNOU, Delhi	11.8.09	1 Hour	IRC
22	IRC of the programme in general B.Sc.	All the Chem courses in general	IGNOU, Delhi	18.10.09	1 Hour	IRC
23	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
24	Aromatic Hydrocarbons: (In Hindi), B.Sc.	CHE-05	IGNOU, Delhi	02.01.2009	1 Hour	EDUSAT
25	Reactions of the carbon- carbon double bond, B.Sc.	CHE-06	IGNOU, Delhi	01.05.2009	1 Hour	EDUSAT
26	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	21.9.08	1 Hour	IRC
27	B.Sc.	Recording of Gyan Vani Studio at EMPC	IGNOU, Delhi	5.11.08	1 Hour	GyanVani recording
28	Aromatic Hydrocarbons: (In Hindi)	CHE-05	IGNOU, Delhi	04.01.2008	1 Hour	EDUSAT

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29	IRC of the programme in general	LT-1, 2, 3 and 4 (CPLT)	IGNOU, Delhi	16.10.07	1 Hour	IRC
30	Aromatic Hydrocarbons – III, B.Sc.	CHE-05	IGNOU, Delhi	07.09.2007	1 Hour	EDUSAT
31	Aromatic Hydrocarbons IV, B.Sc.	CHE-05	IGNOU, Delhi	05.10.2007	1 Hour	EDUSAT
32	IRC for course in general	AEC-01 (B. Sc.)	IGNOU, Delhi	5.6.2007	1 Hour	IRC
33	Stereochemistry – II, B.Sc.	CHE-05	IGNOU, Delhi	05.01.2007	1 Hour	EDUSAT
34	Aromatic Hydrocarbons: Aromaticity	CHE-05	IGNOU, Delhi	27.04.2007	1 Hour	EDUSAT
35	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
36	Aromatic Hydrocarbons II, B.Sc.	CHE-05	IGNOU, Delhi	04.05.2007	1 Hour	EDUSAT
37	IRC of the programme in general	LT-1, 2, 3 and 4 (CPLT)	IGNOU, Delhi	4.2.07	1 Hour	IRC
38	Atmospheric Pollution Causes and concerns, BDP	ACE	IGNOU, Delhi	21.03.2007	1 Hour	EDUSAT
39	Aromatic Hydrocarbons – V, B.Sc.	CHE-05	IGNOU, Delhi	02.11.2007	1 Hour	EDUSAT
40	Stereochemistry - III, B.Sc.	CHE-05	IGNOU, Delhi	02.02.2007	1 Hour	EDUSAT
41	Chemistry Virtual Lab Need and Concerns,	Chemistry Courses	IGNOU, Delhi	26.12.2006	1 Hour	Teleconferencing
42	Importance of virtual lab for distance science learners	Lab Courses	NCIDE, IGNOU, Delhi	26.12.06	1 Hour	Two way Video Teleconferencing
43	Stereochemistry – I, B.Sc.	CHE-05	IGNOU, Delhi	10.11.2006	1 Hour	EDUSAT
44	Thermodynamic and Kinetic Control in Reaction Mechanism, B.Sc.	CHE-06	IGNOU, Delhi	08.09.2006	1 Hour	EDUSAT
45	Aromaticity and Reactivity of aromatic compounds, B.Sc.	CHE-06	IGNOU, Delhi	08.08.2006	1 Hour	EDUSAT
46	Nucleophilic substitution, B.Sc.	CHE-06	IGNOU, Delhi	6.03.2006	1 Hour	EDUSAT
47	Organic Reaction Mechanism: Basic Concepts, CHE-06	B.Sc.	IGNOU, Delhi	6.02.2006	1 Hour	EDUSAT
48	Reactions of the Carbonyl group, B.Sc.	CHE-06	IGNOU, Delhi	03.04.2006	1 Hour	EDUSAT
49	B.Sc. (Chem) programme	B.Sc. (Chem.)	IGNOU, Delhi	29.01.2006	1 Hour	IRC
50	Electrophilic Aromatic Substitution,	CHE-06	IGNOU, Delhi	01.05.2006	1 Hour	EDUSAT
51	IRC on Biomolecules, B.Sc.	CHE-09	IGNOU, Delhi	15.07.2006	1 Hour	EDUSAT
52	IRC of the programme in general	LT-1, 2, 3 and 4 (CPLT)	IGNOU, Delhi	20.12.2005	1 Hour	IRC
53	Introduction to Environmental Chemistry	AEC-01	IGNOU, Delhi	12.12.2005	1 Hour	EDUSAT
54	IRC for Course in general	AEC-01 (B.Sc.)	IGNOU, Delhi	27.11.2005	1 Hour	IRC

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55	Teleconferencing for feedback and monitoring	MESE-004 (PGCPDT)	IGNOU, Delhi	17.11.2005	1 Hour	Teleconferencing
56	Teleconferencing for Induction	MESE-004 (PGCPDT)	IGNOU, Delhi	19.09.2005	1 Hour	Teleconferencing
57	Session on the experiments of Chem lab courses	CHE-03(L)	IGNOU, Delhi	9.3.2005	1 Hour	IRC
58	Edusat session on intro to Environmental Chem, B.Sc.	AEC-01	IGNOU, Delhi	22.7.2005	1 Hour	EDUSAT
59	Edusat session on Programme Induction, B.Sc.	CHE-01-CHE12(L)	IGNOU, Delhi	7.9.2005	1 Hour	EDUSAT
60	Replay Modes for Edusat: Interactive, CPLT	LT-1,2,3,4	IGNOU, Delhi	5.2.2005	1 Hour	IRC

15. Details of Patents granted (if any):
16. Contribution to IGNOU's corporate life:

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

17. Administrative position/s held in the University (even as in charge) : Nil
18. Any other contribution/information

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- 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

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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

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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

- B:** Engaged with the development of **e-content under the NMEICT project of MHRD**. Under this activity e-content is being developed on the basis of Model Curriculum of UGC. The e-content consists of about half an hour of video chunked into smaller packets. The video lecture is supplemented with the objectives, transcript, self assessment questions, glossary, summary etc. The details are as under.

Unit - I: Mechanism of Organic Reactions, B. Sc. 1st Year, Paper code, CH 102, Organic Chemistry-I	
Episode -1	Mechanism of Organic Reactions-I: Basic Concepts https://www.youtube.com/watch?v=XnD7iMR-hsk
Episode -2	Mechanism of Organic Reactions-II: Nucleophilicity and Types of Organic Reactions https://www.youtube.com/watch?v=iCooLGQK-M4
Episode -3	Mechanism of Organic Reactions-III: Types of Organic Reactions and intermediates https://www.youtube.com/watch?v=1CMvPwGrmk0
Episode -4	Mechanism of Organic Reactions-IV: Energy Considerations in Reaction Mechanism https://www.youtube.com/watch?v=EbYdNTCmE-o
Episode-5	Mechanism of Organic Reactions-V: Determination of Reaction Mechanisms https://www.youtube.com/watch?v=wBw_Sz8O3k0

Unit – VII, Paper – II: Alkyl and Aryl Halides	
Episode-1	Alkyl and Aryl halides-I: Classification and Nomenclature https://www.youtube.com/watch?v=b6cNSmRAS9k&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=35&t=112s
Episode-2	Alkyl and Aryl halides-II:Preparation of Alkyl Halides-I https://www.youtube.com/watch?v=8S6SU_A2V0g&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=35
Episode-3	Alkyl and Aryl halides-III:Preparation of Alkyl Halides-II https://www.youtube.com/watch?v=ebeSQY17HyU&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=36
Episode-4	Alkyl and Aryl halides-IV:Reactions of Alkyl Halides – I https://www.youtube.com/watch?v=EkJRm2q7Ll4&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=37
Episode-5	Alkyl and Aryl halides-V:Reactions of Alkyl Halides – II https://www.youtube.com/watch?v=V2AWGt2LRVs&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=38
Episode-6	Alkyl and Aryl halides-VI:Structure, Preparation and Properties of Aryl Halides https://www.youtube.com/watch?v=SLZEMaiQxo0&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=39
Episode-7	Alkyl and Aryl halides-VII:Reactions of Aryl Halides https://www.youtube.com/watch?v=uZVjj6Jvsp4&list=PLOnJQiDsoWogkSRUXJZe7552OJosPLzx9&index=40

C: 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
Signature of Director/ Head