


## Format for Faculty Details for IGNOU Web site

	Name		<b>Lalita S Kumar</b>
	Designation		<b>Professor</b>
	Contact Address		<b>School of Sciences, Indira Gandhi National Open University, Maidan Garhi, New Delhi-110068</b>
	Contact No.	Office	<b>011-29572808</b>
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<b>EDUCATIONAL QUALIFICATIONS</b>			
<b>Degree</b>	<b>Year</b>	<b>Institute/University</b>	
B. Sc.	1980	Maitreyi College, Univ. of Delhi	
B. Ed.	1981	Meerut University	
M.Sc. (Chemistry)	1983	University of Roorkee (Now IIT Roorkee)	
Ph.D. (Chemistry)	1987	Dept. of Chemistry, University of Delhi	
MA in Distance Education (MADE)	2000	IGNOU, New Delhi	
<b>CAREER PROFILE</b>			
<b>Teaching Experience: Above 33 Years</b>			
<b>Designation (Adhoc/Temp./Perm.)</b>	<b>Period of Service From---- to----</b>	<b>Name of the Institution</b>	
Lecturer (Adhoc)	Nov. 1988 to 17 <sup>th</sup> Jan 1989	Deshbandhu College, Univ. of Delhi	
Lecturer (Permanent)	18.01.89 to 16.01.94	School of Sciences, IGNOU	
Lecturer in Senior Scale (Permanent)	17.01.94 to 26.7.98	School of Sciences, IGNOU	
Lecturer in Selection Grade (Permanent)	27.7.98 to 06.10.03	School of Sciences, IGNOU	
Reader (Permanent)	06.10.03 to 31.12.05	School of Sciences, IGNOU	
Associate Professor	01.01.06 to 5.10.11	School of Sciences, IGNOU	
Professor	6.10.2011 till date	School of Sciences, IGNOU	
<b>AREA OF INTEREST/SPECIALIZATION</b>			
<ul style="list-style-type: none"> <li>➤ Synthetic Organic Chemistry</li> <li>➤ Chemistry Education</li> <li>➤ Green Chemistry</li> <li>➤ Environmental Chemistry</li> <li>➤ Analytical Chemistry</li> <li>➤ Areas in M.Sc. (F-2-F, 2010-2013): Taught the following courses:</li> </ul>			

- Reactions for Organic Synthesis
- Chemistry of Primary and Sec Metabolites
- Project Work in Organic Chemistry
- Chemistry Lab work prescribed in the syllabus

#### **ROLE AND RESPONSIBILITIES AT IGNOU**

- Design, Development and Coordination work of programmes at Certificate, Post Graduate Diploma, Post Graduate and Ph. D. level
- Evaluation of Academic Programmes and Courses
- Maintenance of Programmes and Courses
- Development of Audio/Video programmes as part of Learning Materials besides the Self Learning Material in print
- Participation in the live educational programmes through EDUSAT / Live Interactive Sessions through Gyan Darshan
- Participation in the Interactive Radio Counselling through Gyan Vani
- Conducting face to face teaching for courses of M. Phil and Ph.D. (Chemistry)
- Conducting of various orientation programmes as resource person for counsellors.
- Participation in corporate activities of IGNOU as per the assignment

#### **RESEARCH GUIDANCE**

<b>Supervision of</b>	<b>Year of completion</b>	<b>Name</b>	<b>Ph. D. Topic</b>
Prof. Lalita S Kumar & Dr. Prakash Kumar Rao	2016	Vinayak Adimule	“Synthesis, Characterisation and Biological activity of Oxygen, Nitrogen, Sulphur containing Novel Heterocycles”
Prof. Lalita S Kumar & Dr .V. Anantha Lakhmi	2017	Y. Srinivasa Rao	“The Role of Polymorphism, Impurity Profile and Co Crystal Development in Pharmaceutical Industry”
Prof. Lalita S Kumar & Dr. Mohan Prasad	2019	Inamdar Murad	“Asymmetric Synthesis of Organic Compounds by Using Organocatalysts”
Prof. Lalita S Kumar & Dr. Satya Vir Arya	2020	Raunaq	“Sorption, Leaching and Persistence of Tebuconazole, a Fungicide in Indian Soils.”
Prof. Lalita S Kumar	2021	Yogesh	Synthesis and Applications of Nanomaterials
Prof. Lalita S Kumar	Pursuing	Ravikant	Design, Synthesis and Biological Studies of Some Heterocyclic Compounds
Prof. Lalita S Kumar & Dr. B. Santosh Kumar	Pursuing	Mr. Jagannadha Rao. Alla	Synthesis, Biological Evaluation and Molecular Docking Studies of Novel Indazole Derivatives
Prof. Lalita S Kumar & Dr. D.S. Dhani	Pursuing	Ms. Brijesh Kumari	Extraction and Biological Activities of Essential Oils from Some Medicinal Plants
Prof. Lalita S Kumar & Prof. N.V.S. Venugopal	Pursuing	Mr. V. Mallikarjun Sarma	Nanoparticles Mediated Degradation Studies on Pesticide Residues in Agricultural Runoffs
Prof. Lalita S Kumar & Dr. Vinayak Adimule	Pursuing	Ms. Nidhi Manhas	Study of Photophysical Properties and Applications of Novel Azobenzene Derivatives
Prof. Lalita S Kumar	Pursuing	Mr. P. K. Nag	Determination of Absolute Configuration of Chiral Drug Molecules Using Density Functional Theory

Books/Monographs (Authored/Edited)/ **Book Chapter/ Lecture Notes:**

S. No	Name of Author	Title of chapter/book	Place of publication	Publisher	Year
1	V.K. Ahluwalia, <b>Lalita S. Kumar</b> and Sanjiv Kumar	Chemistry of Natural Products: Amino Acids, Peptides, Proteins and Enzymes	New Delhi	Ane Books India	2006
2	<b>Lalita S Kumar</b> 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

**Papers in Refereed/Peer reviewed Journals** :

1. 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), e202104129, 2365-6549 (2022)
2. Yogesh Kumar, Javaid Shabir, Padmini Gupta, Lalita S. Kumar, Design and Development of Amine Functionalized Mesoporous Cubic Silica Particles: A Recyclable Catalyst for Knoevenagel Condensation, *Catalysis Letters*, 152, 1506-1516, 1011-372X (2021)
3. 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, 2352-4928 (2021)
4. 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, 2470-1343 (2020).
5. 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>, *International Journal for Pharmaceutical Research Scholars*, 7(4),31-39 (2018)
6. 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)
7. 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)
8. 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)
9. Adimule Vinayak, Medapa Sudha, Adarsha Haramballi Jagadeesha and Kumar Sanjeev Lalita, Design, Synthesis, Characterization and Cancer Cell Growth-Inhibitory Properties of Novel Derivatives of 2-(4-Fluoro-phenyl)-5-(5-Aryl Substituted-1, 3, 4-Oxadiazol-2-yl) Pyridine, *British Journal of Pharmaceutical Research*, 7(1), 34-43 (2015)

10. 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)
11. 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), <http://www.earthjournals.in/ijpcr.v4issue3.html>
12. 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*, 4(4), 231-235 (2014)
13. 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)
14. Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar, Design, synthesis, characterization and anticancer properties of novel derivatives of 1-[2-(aryl substituted)-5-(4-methoxy biphenyl-4-yl)-[1, 3, 4] oxadiazole-3yl-ethanone, *International Journal of Pharma Sciences*. 4(5), 713-717 (2014)
15. 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)
16. 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 invitro anticancer properties, *Journal of Pharmaceutical, chemical and biological sciences*, 2(2), 130-137 (2014)
17. 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), 176-180 (2014)
18. 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)
19. 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)
20. Vinayak Adimule, Sudha Medapa, padmashree kulkarni, 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)
21. 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)
22. 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

23. 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
24. 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)
25. 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
26. 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)
27. 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*, 1-9, (2011/II),
28. Lalita S. Kumar and Bharat Inder Fozdar, Course Evaluation: A Holistic Approach, *Indian Journal of Open and Distance Learning* 18 (2), 63-76, (2009)
29. 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)
30. 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)
31. 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)
32. 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)
33. 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)
34. Sanjiv Kumar and Lalita S Kumar, SI Units for Chemists, *Chemistry Education Review*, 14(4), 25-32 (1999)
35. 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)
36. 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)
37. 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)
38. 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)

39. 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)

**CONFERENCES/SEMINARS/WORKSHOPS ORGANISED/PARTICIPATED**

S. No.	Author/ Co author(if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference/Workshop
1	Lalita S Kumar	Research Ethics	UGC-HRD Centre (Academic Staff College) G. J. Univ. of Science & Technology	UGC sponsored Refresher course Research Methodology
2	Lalita S Kumar (Session Chair)	Biodegradation & Bioremediation	School of Interdisciplinary and Trans-disciplinary Studies, IGNOU	International Conference: Environmental and Ecological Sustainability: Engaging the Stakeholders
3	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
4	Lalita S Kumar and other members of the Rapporteur team	Purposeful Research- Research for Degree to Research for Resurgence	Research for Resurgence Foundation and IGNOU, UGC, AICTE, ICSSR, IGNC, JNU & SGT	Conference of Academic Leaders on Education for Resurgence
5	Lalita S Kumar	Education and Career in Chemical Sciences	School of Sciences, Indira Gandhi National Open University	DST Vigyan Jyoti Residential Program Breaking Stereotypes in the Field & T for Girl Students through Motivational Guidance
6	Lalita S Kumar and Sanjiv Kumar	Content Development: Interactive PDF	STRIDE, SOCIS and RSD, IGNOU	Refresher Programme on ICT in C
7	Raunaq, Lalita S Kumar, SatyaVir Arya, Neera Singh and 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
8	Lalita Kumar, Sanjiv Kumar, Kalyanapuram Srivathsan	Early Experiences with a Community Driven Open Education management System	7 <sup>th</sup> Pan Commonwealth Forum on Open Learning	International Conference Centre, Abuja
9	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 2
10	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,

11	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 <sup>th</sup> Pan-Commonwealth Forum on Open Learning: Skill Development	Kochi
12	Lalita S Kumar	Alternative models of course development in the changing scenario of ODL	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	IGNOU New Delhi
13	Lalita S Kumar as a panelist along with members	Consolidation of Learner Support Services	RSD, IGNOU	Learners’ Conference	IGNOU New Delhi
14	Lalita S Kumar	Alternative models of course development in the changing scenario of ODL	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	IGNOU New Delhi
15	Lalita S Kumar and 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
16	Joint Coordination with NCIDE	Question bank for AEC-01 course	NCIDE, IGNOU	On Demand Examination	IGNOU New Delhi
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