

**1. Details of the Teacher/ Academic :**

<b>Name &amp; Date of Birth :</b>	<b>Dr. BHARAT INDER FOZDAR /15.01.1960</b>
<b>Date of Joining in IGNOU:</b>	<b>11.08.1988</b>
<b>Current Designation :</b>	<b>Professor</b>
<b>Pay Scale as on date :</b>	<b>193800</b>
<b>Qualifications :</b>	<b>M.Sc. (Chem.), M.Phil. (Chem.) and Ph.D. (Chem.)</b>

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

<b>Name of the recipient,</b>	<b>Honour /Award/ Fellowship name</b>	<b>Agency name /Name of statutory body/ institution/ Apex body</b>	<b>Period</b>
<b>Bharat Inder Fozdar</b>		<b>1. Member of Academic Council, IGNOU</b>	<b>(October, 2016-2018)</b>
		<b>2. Member of Standing Committee of Research Council, IGNOU</b>	<b>(Jan 2017-2018)</b>
		<b>3. Member of Standing Committee of Academic council, IGNOU</b>	<b>(June 2016-2017)</b>
		<b>4. Member of Planning Board of Vardhman Mahaveer Open University, Kota (Raj)</b>	<b>(July 2016-2018)</b>
		<b>5. Member of School Board of School of Education, IGNOU</b>	<b>(May 2018-till date)</b>
		<b>6. Member of School Board of Social Sciences, IGNOU</b>	<b>(Aug. 2016-2018)</b>
		<b>7. Member of School Board of School of Engineering and Technology, IGNOU</b>	<b>(July 2010-June 2012)</b>
		<b>8. Member of School Board of School of Sciences, IGNOU</b>	<b>(2001-2003, 2010-till date)</b>
		<b>9. Member of Advisory Board for Continuing Education Programme of DTU</b>	<b>(2018-till date)</b>
		<b>10. Member of Editorial Team, Indian Journal of Open Learning</b>	<b>(2009-2012)</b>
		<b>11. Member of Task Group of the Planning and Development Division, IGNOU</b>	<b>(2013-2014)</b>
		<b>12. Member of Research Council Standing Committee</b>	<b>.(January, 2017-2018)</b>

**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.

**4. Research Articles/Publications:**

S. No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Naveen Kr Dubey, Peeyush Jain, Kashif-Ul Haq, BI Fozdar	Enantiomeric separation and estimation of stiripentol by liquid chromatography mass spectrometer in human plasma	<i>Separation Science Plus</i>			2020	2573-1815
2.	Naveen Kr Dubey, Kashif Ul Haq, Bharat I Fozdar	Overcoming the Charged Ion Competition in Triple Quad Chemical Ionization Ion Source for Estimation of Celecoxib in Biological Matrix and its Application to Bioequivalence Study	<i>Drug Research</i>			2019	2194-9379
3.	Naveen Kr Dubey, Bharat I. Fozdar	Interconversion from N-Desmethyl Clomipramine to Clomipramine and its impact on a bioequivalence study	<i>Sep Sci plus</i>	1(11)	714–725	2018	Wiley 2573-1815

4.	Rajeev Rattan, S.G. Eswara Reddy, Shudh Kirti Dolma, Bharat Inder Fozdar, Veena Gautam, Ritika Sharma and Upendra Sharma	Triterpenoid saponine from <i>Clematis graveolens</i> and evaluation of insecticidal activities.	<i>Natural Product Communication</i>	10(9)	1525-1528	2015	Sage 1934-578X Online 1555-9475
5.	R Rattan, A Kumari, V Gautam, B. I. Fozdar, U Sharma, D Kumar	Preliminary phytochemical screening, antioxidant and antifungal activity of <i>Lepidagathis cuspidate</i>	<i>Int J Drug Dev &amp; Res</i>	8(1)	1-3	2016	0976-8610
6.	R Rattan, B Inder Fozdar, V Gautam, R Sharma, D Kumar, U Sharma	Cuspidate A, new anti-fungal triterpenoid saponin from <i>Lepidagathis cuspidate</i>	<i>Natural product research</i>	31(7)	773-779	2017	Taylor & Francis 1478-6419
7.	Imtiyaz Hussain Lone, Khaliqz Zaman Khan, Bharat Inder Fozdar)	Synthesis, physicochemical properties, antimicrobial and antioxidant studies of pyrazoline derivatives bearing a pyridyl moiety	<i>Medicinal Chemistry Research</i>	23 (1)	363-369	2014	Springer 1054-2523 online 1554-8120
8.	Imtiyaz H. Lone, Khaliqz Z. Khan, Bharat I. Fozdar, Fida Hussain,	Synthesis antimicrobial and antioxidant studies of new oximes of steroidal chalcones	<i>Steroids</i>	78(9)	945-950	2013	Elsevier 0039-128X
9.	C Mohan, N Saxena, BI Fozdar, R Kumar, ML Sharma, V Mudgal, A Dey	in vitro evaluation of few indigenously known herbal plants for their anthelmintic property	<i>Asian Journal of Chemistry</i>	28 (5)	1001-1003	2016	0970-7077 online 0975-427X

10.	Bharat Inder Fozdar,	Open and distance learning (ODL): A strategy of development through its potential role in improving Science & Technology knowledge	<i>International Journal of Emerging Technologies in Learning (iJET)</i>	10 (2)	9-16	2015	1863-083
11.	Chander Mohan, Navneet Saxena and Bharat Inder Fozdar,	Activity of indigenously known angiospermic plants against common gi parasites of livestock	<i>World Journal of Pharmacy And Pharmaceutical Sciences</i>	4( 09)	1652-1667	2015	2277-7105
12.	Bharat Inder Fozdar , Lalita S. Kumar, S. Kannan,	Study of the factors Responsible for the Dropouts from the BSc Programme of Indira Gandhi National Open University.	<i>The International Review of Research in Open and Distance Learning (IRRODL) Vol.7(3) (2006)..</i>	7(3)	1-15	2006	1492-3831
13.	Bharat Inder Fozdar and Lalita S. Kumar	Mobile Learning and Student Retention	<i>The International Review of Research in Open and Distance Learning (IRRODL)</i>	8(2)	1-18	2007	1492-3831
14.	Pushplata Tripathi and Bharat Inder Fozdar	Learner Perceptions of Continuous Assessment in the Bachelor Degree Programme of IGNOU	<i>Indian Journal of Open and Distance Learning (IJOL)</i>	16(2)	113-128	2007	0971-2690
15.	Syed Mashhood Ali, Arti Maheshwari and Bharat Inder Fozdar	<sup>1</sup> H NMR Spectroscopic Study of Complexation of Citalopram with $\beta$ Cyclodextrin in Aqueous Solution	<i>Magnetic Resonance in Chemistry</i>	45(3)	253-256	2007	Wiley 1097-458X

16.	Bharat Inder Fozdar, Lalita S. Kumar and Anurag Saxena	In-service Teacher Training Programme: An Analysis of Learner Opinion on the Effectiveness of the Programme	<i>Malaysian Journal of Distance Education (MJDE)</i>	9(2)	65-87	2007	1511-6433 online 2180-4265
17.	Bharat Inder Fozdar and Lalita S. Kumar	Teaching Chemistry at Indira Gandhi National Open University	<i>Turkish Online Journal of Distance Education (TOJDE)</i>	7(2)	80-89	2006	2147-6454
18.	Lalita S. Kumar and Bharat I. Fozdar	Course Evaluation: A Holistic Approach.	<i>Indian Journal of Open Learning</i>	18(2)	63-76	2009	0971-2690
19.	B Fozdar, S Khan, T Shamsuddin, K Shamsuddin, J Kintzinger	Aleuritin, A Coumarinolignoid and a Coumarin from <i>Aleurites fordii</i>	<i>Phytochemistry</i>	28(9)	2459-2461	1989	Elsevier 0031-9422
20.	Bharat Inder Fozdar, S Khan and K Shamsuddin	Extractives of <i>Sequoiadendron giganteum</i>	<i>J. Indian Chem. Soc.</i>	66(6)	422-423	1989	1735-207X
21.	Bharat Inder Fozdar, S Khan and K Shamsuddin	Norditerpene Dilactones, Macrophyllic Acid and Biflavones from <i>Podocarpus latifolius</i>	<i>J. Indian Chem. Soc.</i>	66(6)	422-424	1989	1735-207X
22.	Bharat Inder Fozdar, S Khan and K Shamsuddin,	A One-pot Synthesis of Flavons	<i>Chemistry and Industry</i>	17(52)	586	1986	2047-6329
23.	S Kahan, Bharat Inder Fozdar and K Shamsuddin	Quassonoids from <i>Ailanthus Malabarica</i> , Vol. 21, pp (1982).	<i>Indian J. Chem.(B)</i>	21	1133-1134	1982	0376-4699

**Book Review published :**

S. No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Bharat Inder Fozdra	Online Science Learning: Best Practices	Indian Journal of Open Learning	18(3)	174-177	2009	0971-2690

		and Technology By Kevin F. Downing and Jennifer K.. Holtz					
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**5. Policy Documents Reports/ Mimeos: As member of Team**

S. No.	Title	Institution/ Agency	Year
1.	Code of Conduct for Research Students	Research Unit	2018-19

**6. MOOCs/ eSLMs/ eModules developed :**

SNo.	Author/ Co- author (if any)	Title	Credits	Level	Host Portal: (SWAYAM/ NPTEL/ NMEICT/ ePG Pathshala/ Any Other)	Year	Weblink

**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	City	Date and Year
1.	Bharat Inder Fozdar	The Role of Open and Distance Learning in Vocational Education and Training in India	<i>The Fifth Pan- Commonwealth Forum on Open Learning (PCF5)</i>	Conference	London (UK)	13-17 July 2008
2.	Bharat Inder Fozdar	Use of Open And Distance Learning in the Skill Development of Laboratory Technicians,	ICDE 23rd Word Conference (M2009)	Conference	Maastricht, Netherlands	7-10 June 2009

<b>4.</b>	Bharat Inder Fozdar	Laboratory Work in Open and Distance Learning (ODL): an <i>IGNOU's</i>	GUIDE INTERNATIONAL WORKSHOP 2010	Conference	Rome (Italy)	18-19 March 2010
<b>5.</b>	Bharat Inder Fozdar	A study of the Factors Responsible the Dropout of B.Sc. Students of IGNOU Experience	<i>International Council on Distance Education (ICDE)</i>	Conference	IGNOU, New Delhi,	November 2005

**8. Consultancy assignment (if any):**

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

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

<b>S. No.</b>	<b>Agency</b>	<b>Amount</b>	<b>Duration with dates</b>	<b>Status i.e. ongoing/ completed</b>
<b>1</b>	<b>DEC</b>	<b>2 Lac</b>	<b>One year</b>	<b>Completed in July 2010</b>

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

<b>S. No./Name</b>	<b>Enrolment no:</b>	<b>Year of registration</b>	<b>Year of completion/ award</b>
1. IMTIYAZ HUSSAIN LONE	118701694	May/ 2011	2015
2. CHANDER MOHAN	118701623	JULY 2011	2017
3. RAJEEV RATTAN	112247197	May/ 2011	2018
4. NAVEEN KUMAR DUBEY	173101775	JAN 2017	2020

**11. Details of Programmes/ Courses coordinated/ written/ edited/ translated**

- Courses/ Units translated and period

S. No.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/Wri tten/ Edited (content/ language/ format)/ Translated	Period
1.	B.Sc.			Coordinated 2004-007	2004-007
2.	B.Sc.			Coordinated	2018-till date
3.		Atoms and Molecules (CHE1)		Coordinating since 2005	2005-till date
4.		Atoms and Molecules (CHE1)	Unit 7 Molecular Spectroscopy-I	Written/vetted	1991
5.			Unit 8 Molecular Spectroscopy-II	Written/vetted	1991
6.			Unit 9 Nuclear Chemistry	Written/vetted	1991
7.		Chemistry Lab-I (CHE- 03(L))		Coordinated	1991-till date
8.		Chemistry Lab-I (CHE- 03(L))	Unit 1 Laboratory Techniques and Procedures	Written/Vetted	1991
9.			Unit 2 Acid-Base Titrations-I	Written/vetted	1991
10.			Unit 3 Acid-Base Titrations-II	Written/vetted	1991
11.			Unit 6 Estimation of Water	Written/vetted	1991
12.		Physical Chemistry (CHE-04)	Unit 1 Units and Dimensions	Written/vetted	1991



13.			Unit 14 Chemical Equilibria	Vetted	1991
14.			Unit 15 Ionic Equilibria	Vetted	1991
15.			Unit 16 Electrolytic Conductance of Solutions	Vatted	1991
16.			Unit 17 Electrochemical Cells	Vetted	1991
17.		Organic Chemistry (CHE-05)	Unit 11 Halogen Derivatives	Transformed/vetted	1992
18.			Unit 12 Alcohols and Phenols	Transformed/vetted	1992
19.			Unit 13 Ethers and Sulphur Analogues of Alcohols and Ethers	Transformed/vetted	1992
20.			Unit 14 Aldehydes and Ketones	Transformed/vetted	1992
21.		Organic Reaction Mechanism (CHE-06)	Unit 9 Carbenes, Nitrenes and Benzyne	Transformed/vetted	1993
22.			Unit 10 Free Radicals	Transformed/vetted	1993
23.			Unit 11 Molecular Rearrangements	Transformed/vetted	1993
24.			Unit 12 Pericyclic Reactions	Transformed/vetted	1993
25.			Unit 13 Organic Photochemistry	Transformed/vetted	1993
26.			Unit 14 Strategy of Organic Synthesis	Written/Vetted	1993
27.			Unit 15 Case Study of Some Chemicals of Daily Use-I	Written/Vetted	1993

28.			Unit 16 Case Study of Some Chemicals of Daily Use-II	Written/Vetted	1993
29.		Chemistry Lab-III [CHE-08(L)]	Unit 1 Techniques and Apparatus	Written/Vetted	1993
30.			Unit 2 Organic Preparations	Written/Vetted	1993
31.			Unit 3 Preliminary Qualitative Analysis	Written/Vetted	1993
32.		Biochemistry (CHE-09)	Unit 1 Cell Structure and Function	Transformed/vetted	1994
33.			Unit 2 Carbohydrates Unit 3 Lipids	Transformed/vetted	1994
34.			Unit 4 Nucleic Acids	Transformed/vetted	1994
35.			Unit 13 Replication and Transcription of DNA	Transformed/vetted	1994
36.		Chemistry Lab-IV [CHE-11(L)]	Unit 14 Protein Biosynthesis	Transformed/vetted	1994
37.			Unit 13 Basic Concepts	Transformed/vetted	1993
38.			Unit 14 Initial Rate Method	Transformed/vetted	1993
40.			Unit 15 Integrated Rate Equation Method	Transformed/vetted	1993
41.		Chemistry Lab-V (CHE-12(L))		Coordinated	1993
42.			Exp. 9 Estimation of Amino Groups	Transformed/vetted	1993
43.			Exp. 10 Estimation of Phenols	Transformed/vetted	1993

44.			Exp. 11 Estimation of Sugars	Transformed/vetted	1993
45.			Exp. 12 Estimation of Amino Acids	Transformed/vetted	1993
46.			Exp. 13 Estimation of Formaldehyde	Transformed/vetted	1993
47.			Exp. 14 Analysis of Oils and Fats	Written/vetted	2004
49.		AOC in Environmental Chemistry (AEC 01)	Exp2: Determination of pH and Conductivity of Soil and Water Samples	Written/vetted	2004
50.			Exp 16: Detection of CO <sub>2</sub> and NO <sub>2</sub> in Ambient Air/ Gaseous Emissions	Written/vetted	2004
51.			Exp 17: Determination of Suspended Particulate Matters in Ambient air and NO <sub>2</sub> in ambient air/Gaseous Emissions	Written/vetted	2004
52.			Exp 18: Determination of SO <sub>2</sub> in Ambient Air/Gaseous Emissions	Written/vetted	2004
53.			Exp 19: Identification of Pesticides in Pesticide Residue	Transformed/vetted	2004
54.			Unit 8: Unit 18: Electroanalytical Methods	Transformed/vetted	2004
56.			Unit 19: Optical Methods	Transformed/vetted	2004
57.			Unit 20: Microbiological Examination of Soil and Water	Transformed/vetted	2004

58.		FST 01	Foundation Course in Science and Technology (FST 01)	Coordinated (2005-20015)	2005-2015
59.		LT 03		As Programme Coordination Committee Member (up to launching of the Programme, Aug. 2001	2001
60.			Unit 4: Glassworking Techniques I	Transformed/vet ted	2001
61.			Unit 5: Glassworking Techniques II	Transformed/vat ted	2001
62.			Unit 6: Solutions	Transformed/vet ted	2001
63.			Unit 7: Preparations of Solutions	Transformed/vet ted	2001
64.	Certificate programme in Laboratory Techniques (CPLT)	LT 03 L	Experiment 13: Glassworking Operation using Bunsen/Batwing Burner	Transformed/vet ted	2001
65.			Experiment 14: Glassworking Operations using a Premixing Burner	Transformed/vet ted	2001
66.	Certificate programme in Laboratory Techniques (CPLT) Revised	CLT 103	Solution	Written/translat ed	2016
67.		MESE 004	Unit 5: Thermodynamics	Transformed/vet ted	2003
68			Unit 6: Solutions	Transformed/vet ted	2003
69.			Unit 7: Chemical Equilibrium	Transformed/vet ted	2003

70			Unit 8: Chemical Kinetics	Transformed/vetted	2003
71.		ACE 01	Unit 5: Environment and Human Health	Transformed/vetted	2006
72.			Unit 5: Environment and Human Health	Transformed/vetted	2003
73.		NEV 001	Unit 10: Environmental Legislation	Written/Vetted	2003
74.	Post Graduate Diploma in Analytical Chemistry (PGDAC)	MCH 004		Coordinated	2011-till date
75.			Unit 1 Introduction to Electroanalytical Methods	Transformed/vetted	2011
76.			Unit 2 Potentiometry – I	Transformed/vetted	2011
77.			Unit 3 Potentiometry – II (pH Metry)	Transformed/vetted	2011
78.			Unit 4 Conductometry	Transformed/vetted	2011
79.			Unit 5 Electrogravimetry and Coulometry	Transformed/vetted	2011
80.			Unit 6 Applications of Conductometry, Electrogravimetry and Coulometry	Transformed/vetted	2011
81.			Unit 10 Thermogravimetric Analysis	Transformed/vetted	2011
82.			Unit 11 Differential Thermal Analysis Scanning Calorimetry and Thermal Titration	Transformed/vetted	2011

83.			Unit 12 Fundamentals of Radioactivity	Transformed/vet ted	2011
84.			Unit 13 Radioanalytical Methods	Transformed/vet ted	2011
85.		MCHL 004		Coordinated	2011-till date 2011
86.			Exp. 1 pH titration of a strong acid (battery acid)	Transformed/vet ted	2011
87.			EXP. 2 pH titration of a weak acid – determination of pKa of acetic acid	Transformed/vet ted	2011
88.			Exp. 3 Potentiometric titration of a strong acid with a strong base using quinhydrone electrode	Transformed/vet ted	2011
89.			Exp. 4 Potentiometric titration of Fe <sup>2+</sup> with Cr <sub>2</sub> O <sub>7</sub>	Transformed/vet ted	2011
90.			Exp. 5 Potentiometric determination of Cl <sup>-</sup> ion content of common salt using AgNO <sub>3</sub>	Transformed/vet ted	2011
91.			Exp. 6 Conductometric titration of a strong acid with a strong base	Transformed/vet ted	2011
92.			Exp. 7 Conductometric determination of acetic acid content of vinegar	Transformed/vet ted	2011
93.			Exp. 8 Conductometric	Transformed/vet ted	2011

			titration of a mixture of a strong acid and weak acid with a base		
94.			Exp. 9 Identification and determination of $\text{Cd}^{2+}/\text{Pb}^{2+}/\text{Zn}^{2+}$ by polarography	Transformed/vetted	2011
95.			Exp. 10 Amperometric Titration of $\text{Pb}^{2+}$ with $\text{Cr}_2\text{O}_7$	Transformed/vetted	2011
96			Exp. 11. Determination of the solubility of a sparingly soluble salt by radiotracer method		
97.	BSCG			Chairperson of BSC Coordination Committee	2018-till
98.		BCHCT-131	Unit 6 Ionic Bond	Written/translated	2018
99.			Unit 15. Alkanes	translated	2018
100.			Unit 16 Alkenes I	translated	2018
101.			Unit 17 Alkenes II	translated	2018
102.			Unit 18 Alkynes	translated	2016-Till date
103			Unit 19 Aromaticity	translated	2018
104.		BCHCL-132		Coordinated	2018
101.			Exp. 1: Determination of Sodium Carbonate and Sodium Hydrogen Carbonate Present in a Mixture	Written/translated	2018
105.			Exp. 6: Detection of Extra Elements (N, S, X) in the Organic Compounds	Written/translated	2018

106.			Exp. 7: Separation and Identification of the Components of a given Mixture of Amino Acids by Paper Chromatography	Written/translated	2016-till date
107.			Exp. 8: Separation and Identification of the Sugars Present in the given Mixture by Paper Chromatography	Written/translated	2018
108.		BCHCT-133		Coordinated	2018
109.			Unit 13 Alkyl halides	Written/translated	2018
110.			Unit 14: Aryl Halides	Written/translated	2018
111.			Unit 15 Alcohols	Written/translated	2018
112.			Unit 16 Phenols	Written/translated	2018
113.			Unit 17 Ethers	Written/translated	2018
114.			Unit 18 Aldehydes and Ketone	Written/translated	
115.		BCHCL-134	Exp. 10 Bromination of Aniline	Written/translated	2019
116.			Exp. 11 Benzoylation of Phenols	Written/translated	2019
117.		BCHCL-136	Exp. 11 Differentiation between Reducing Sugars and Non-Reducing Sugars	Written/translated	2021
118.			Exp. 12 Determination of the Concentration of Glycine Solution by Formylation Method	Written/translated	2021
119.			Exp. 13 Action of Salivary Amylase on Starch and Effect of Temperature on The Action of Salivary	Written/translated	2021



			Amylase on Starch		
120.		BCHET 141		Coordinated	2021
121.			Unit 8: Thermal Methods of Analysis	Written/translated	2021
122.			Unit 9: Potentiometry	Written/translated	2021
123.			Unit 10: Conductometry	Written/translated	2021
124			Unit 1: Sampling and Error in Chemical Analysis	Translated	2001
125.		BCHET 142		Coordinated	2021
126.			Ex. 2: Separation And Identification of the Monosaccharides Present In the Given Mixture by Paper Chromatography	Written/translated	2021
127.			Experiment 5: Determination of the pH of the Water Samples	Written/translated	2021
128.			Experiment 6: Determination of pH of Soil	Written/translated	2021
129.			Experiment 7: Determination of Conductance of Water	Written/translated	2021
130.			Experiment 8: Determination of Total Soluble Salt in Soil	Written/translated	2021

131.			Experiment 09: Estimation of Calcium, Magnesium In Soil	Written/translat ed	2021
132.		BCHET 147	Unit 9: Polynuclear Aromatic Hydrocarbons	Translated	2022
133.			Unit 10: Heterocyclic Compounds	Translated	2022
134.		BCHEL 148	Experiment 7: Systematic Qualitative Analysis of Carboxylic Acids and Phenols and Preparation of their Derivatives	Written/translat ed	2022
135.			Experiment 8: Systematic Qualitative Analysis of Aldehydes and Ketones and Preparation of their Derivatives	Written/translat ed	2022
136.			Experiment 9: Systematic Qualitative Analysis of Amides, Nitro Amino Compounds and Preparation	Written/translat ed	2022
137.			Experiment 10: Identification of Unknown Organic Sample	Written/translat ed	2022
138.		BCHE 149	UNIT 2: Carbohydrates: Monosaccharides	Written	2021
139.			UNIT 3: Carbohydrates: Disaccharides and Polysaccharides	Written/translat ed	2021

140.			<b>UNIT 10: Lipids I</b>	<b>Written/translat ed</b>	<b>2021</b>
141.			<b>UNIT 11: Lipids II</b>	<b>Written/translat ed</b>	<b>2021</b>
142.			<b>UNIT 12: Nucleic Acids</b>	<b>Written/translat ed</b>	<b>2021</b>
143.			<b>UNIT 13: Replication and Transcription</b>	<b>Written/translat ed</b>	<b>2021</b>
144.		<b>BCHEL 150</b>	<b>EXPERIMENT 1: Separation of a Mixture of Amino Acids by Paper Chromatography</b>	<b>Written/translat ed</b>	<b>2021</b>
145.			<b>EXPERIMENT 2: Determination of the Concentration of Glycine Solution by Formylation Method</b>	<b>Written/translat ed</b>	<b>2021</b>
146.			<b>EXPERIMENT 4: Action of Salivary Amylase on Starch and Effect of Temperature on the Action of Salivary Amylase on Starch</b>	<b>Written/translat ed</b>	<b>2021</b>
147.			<b>EXPERIMENT 5: To Determine the Saponification Value of an Oil or Fat</b>	<b>Written/translat ed</b>	<b>2021</b>
148.			<b>EXPERIMENT 6; To Determine the Iodine Value of an Oil or Fat</b>	<b>Written/translat ed</b>	<b>2021</b>
149.			<b>EXPERIMENT 7: Determination of Reducing Sugars and Non-Reducing Sugars</b>	<b>Written/translat ed</b>	<b>2021</b>

150.	CPLT Revised	CLT 1003	Solutions and their Preparation	Written/translated	2016
151.			Basic Apparatus	Translate	2016
152.			Measuring Apparatus	Translated	2016
153.			Care and Maintenance of Glassware	Translated	2016
154	M.Sc. Chemistry/ M.Sc. Analytical Chemistry (MSCCHE/ MASCANCHEM)	MCH-014		Coordinator	2024
156		MCH-014	UNIT 1 Sets and Graphs Functions	Written	2024
157			UNIT 2 Elementary Algebra	Written	2024
158			UNIT 3 Vectors	Written	2024
159			Unit 4 Differential Calculus	Written	2024
160			Unit 5 Applications of Differential Calculus	Written	2024
161			UNIT 6 Integral Calculus Equations Distributions 284 Unit 10 Applications of Statistic in Chemistry	Written	2024

162			<b>UNIT 7 Differential</b>	<b>Written</b>	<b>2024</b>
163			<b>UNIT 8 Matrix Algebra</b>	<b>Written</b>	<b>2024</b>
164			<b>Unit 9 Probability and Probability</b>	<b>Written</b>	<b>2024</b>
165		<b>MCHL-013 CHEMISTRY LAB-III</b>	<b>EXPERIMENT 8 To Determine Concentration of Sodium Carbonate in a Commercial Sample of Soda Ash by Conductometric Titration with HCl</b>	<b>Written</b>	<b>2024</b>
167			<b>EXPERIMENT 9 To Determine The Strength Of A Moderately 3 Strong Acid (Salicylic/ Mandelic Acid) by Conductometric Titration Using (A) Salt-Line Method Or (B) Double Alkali Method</b>	<b>Written</b>	<b>2024</b>
168			<b>EXPERIMENT 10 To Study the Stepwise Neutralization of Oxalic Acid or Citric Acid by Conductometric Titration and Explain the Variation in the Plots</b>	<b>Written</b>	<b>2024</b>
169			<b>EXPERIMENT 11 To Determine Molar Conductivity of a Strong Electrolyte at Different Concentrations and Verify Debye-Hückel-Onsager Equation</b>	<b>Written</b>	<b>2024</b>

170			<b>EXPERIMENT 12</b> <b>To Determine the</b> <b>Dissociation</b> <b>Constant of Acetic</b> <b>Acid</b> <b>Potentiometrically</b>	Written	2024
171		<b>MCH-017</b> <b>ORGANIC</b> <b>CHEMISTR</b> <b>Y-II</b>	<b>UNIT 14 Enolates</b>	Written	2024
172			<b>UNIT 15 Umpolung</b> <b>Reactions</b>	Written	2024
173			<b>UNIT 16 Principle</b> <b>and Applications of</b> <b>Phase Transfer</b> <b>Catalysis</b>	Written	2024
174		<b>MCHL-015</b> <b>CHEMISTR</b> <b>Y LAB-V</b>	<b>UNIT 1 Techniques</b> <b>in organic</b> <b>Laboratory</b>	Written	2024
175			<b>EXPERIMENT 1</b> <b>Preparation of 1,3,5-</b> <b>Tribromobenzene</b> <b>from Aniline</b>	Written	2024
176			<b>EXPERIMENT 2</b> <b>Preparation of 4-</b> <b>Nitroaniline from</b> <b>Aniline</b>	Written	2024
177			<b>EXPERIMENT 3</b> <b>Preparation of</b> <b>Benzanilide from</b> <b>Benzophenone</b>	Written	2024
178			<b>EXPERIMENT 4</b> <b>Preparation of</b> <b>Preparation of</b> <b>Anthranilic Acid</b> <b>from Phthalic Acid</b>	Written	2024
179			<b>EXPERIMENT 5</b> <b>Preparation of</b> <b>Preparation of p-</b> <b>Aminobenzoic Acid</b> <b>from Toluene</b>	Written	2024

180			<b>EXPERIMENT 6</b> <b>Preparation of</b> <b>Preparation of</b> <b>Benzilic Acid from</b> <b>Benzaldehyde</b>	Written	2024
181			<b>EXPERIMENT 7</b> <b>Preparation of</b> <b>Chalcone Epoxide</b> <b>from Benzaldehyde</b> <b>and Acetophenone</b>	Written	2024
182			<b>EXPERIMENT 8</b> <b>Estimation of Amino</b> <b>Groups</b>	Written	2024
183			<b>EXPERIMENT 9</b> <b>Estimation of Sugars</b>	Written	2024
184			<b>EXPERIMENT 10</b> <b>Estimation of P</b>	Written	2024
185			<b>EXPERIMENT 11</b> <b>Estimation of</b> <b>Formaldehyde 86</b> <b>EXP</b>	Written	2024
186			<b>EXPERIMENT 12</b> <b>Estimation of Amino</b> <b>Acids</b>	Written	2024
187			<b>EXPERIMENT 13</b> <b>Determination of</b> <b>Saponification Value</b> <b>of an Oil or Fat</b>	Written	2024
188			<b>EXPERIMENT 14</b> <b>Determination of</b> <b>Iodine Value of Oil</b> <b>or Fat</b>	Written	2024

- Audio programmes (title, Course, period)
  - Video programmes (title and Course, period)
- Developed One Video programme on Quantitative Analysis III; Instrumental Methods

**12 Training programmes designed and conducted, duration and dates**

SNo.	Programme	Dates	Place	Number of Participants
1.	Resource person for various orientation programmes BSC	--	Various places in India	B.Sc. counsellors of that area 5-25 in each place

	<b>counsellors</b>			
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**13 Details of Counselling sessions conducted:**

<b>SNo.</b>	<b>Programme</b>	<b>Course</b>	<b>Place</b>	<b>Dates</b>	<b>Duration</b>	<b>Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)</b>
1.	BSC	CHE 3L	Delhi	Dec 2005	1 hr	Teleconferencing
2.		CHE 05	Delhi	Dec 2005	1 hr	Teleconferencing
3.		AEC 01	Delhi	January 2006	1 hr	Teleconferencing
4.		CHE 06	Delhi	April 2006	1 hr	Teleconferencing
5.		CHE 06	Delhi	July 2006	1 hr	Teleconferencing
6.		CHE 06	Delhi	November 2006	1 hr	Teleconferencing
7.		ACE	Delhi	September 2007	1 hr	Teleconferencing
8.		CHE 06	Delhi	July 2007	1 hr	Teleconferencing
9.		CHE 06	Delhi	November 2007	1 hr	Teleconferencing
10.		B.Sc.	Delhi	November 2006	1 hr	Teleconferencing
11.		ACE	Delhi	29.05.07	1 hr	IRC
12.		FST	Delhi	04.11.2007	1 hr	IRC
13.	CPLT	CPLT	Delhi	16.10.2007	1 hr	IRC
14.	MSC Chemistry	MCH 416	Delhi	2009-10	60 hrs	Face to face
15.				2010-11	60 hrs	Face to face
16.				2011-12	60 hrs	Face to face
17.		MCH 422	Delhi	2009-10	30 hrs	Face to face
18.				2010-11	30 hrs	Face to face
19.				2011-12	30 hrs	Face to face
20.		MCH 426	Delhi	2009-10	60 hrs	Face to face



21				2010-11	60 hrd	Face to face
22.		MCH 512	Delhi	2011-12	60 hrs	Face to face
23.				2010-11	30 hrs	Face to face
24.		MCH 516	Delhi	2010-11	30 hrs	Face to face
25.				2011-12	30 hrs	Face to face
26.				2012-13	30 hrs	Face to face
27.		MCH 542	Delhi	2010-11	60 hrs	Face to face
28.				2011-12	60 hrd	Face to face
29.				2012-13	60 hrs	Face to face
30.	<b>Ph.D./Mphil. Chemistry</b>	RCH 001		2017	10 hr	Face to face
31.				2018	10 hrs	Face to face
				2019	10 hrs	
32.		RCH 002		2017	60 hrs	Face to face
33.				2017	20 hrs	Face to face
34.				2018	20 hrs	Face to face
35	<b>Ph.D./Mphil. Chemistry</b>	RCH 001 RCHE 004		2019	20 hrs	Face to face
36	<b>Ph.D./Mphil. Chemistry</b>	RCH 001 RCHE 004		2020	20 hrs	Face to face
37	<b>Ph.D./Mphil. Chemistry</b>	RCH 001 RCHE 004		2021	20 hrs	Face to face
38	<b>Ph.D./Mphil. Chemistry</b>	RCH 001 RCHE 004		2022	20 hrs	Face to face

**14 Details of Patents granted (if any):**

**15 Contribution to IGNOU's corporate life:**

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
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<b>1.</b>	<b>Member</b>	<b>To formulate Ordinance pertaining to either service matter or financial matters</b>	<b>7 June 2016</b>
<b>2.</b>	<b>Member</b>	<b>To prepare Code of Conduct for Research and research scholar</b>	<b>2018-till date</b>
<b>4.</b>	<b>Member of various committees of SOS</b>	<b>Convener of School council, purchase committee of SOS, etc.</b>	<b>--</b>

**16. Administrative position/s held in the University (even as in charge)**

<b>S. No.</b>	<b>Designation</b>	<b>Period</b>
<b>1.</b>	<b>Director, Defence Unit</b>	<b>July 2013-March 2014</b>
<b>2.</b>	<b>Chief Vigilance Officer</b>	<b>July 2016-September 2017</b>

**17 Any other contribution/information**
**Signature of Teacher /Academic**
**Signature of Director/ Head**