

I – Academic Planner

A. Teaching Plan (Year: 2019-2020 Semester: Even)

Teacher's Name Dr. Ruchi Sharma Pandey Department CHEMISTRY

S. No.	UPC	Paper Name	Core/AECC/GE/SEC	Topic/Unit	Start Date	End Date
1.	B.Sc. (H) Chemistry II Year, IV Semester 32171403	Conductance and Chemical Kinetics (Theory)	Core Chemistry/C-X	Unit 1: Conductance	28 th Jan 2020	19 th March 2020
				Unit 3: Catalysis	21 st March 2020	30 th April 2020
2.	BSc (P) Physical Sciences II Year, IV Semester 42174404	Chemistry of s- and p- block elements, States of Matter and Chemical Kinetics (Theory)	Core Chemistry/ GE-4	Unit 3: Kinetic Theory of Gases	28 th Jan 2020	6 th March 2020
				Unit 4: Liquids	16 th March 2020	19 th March 2020
				Unit 6: Chemical Kinetics	21 st March 2020	25 th April 2020
				Unit 5: Solids	28 th April 2020	16 th May 2020
3.	BSc (P) Physical Sciences I Year, II Semester 42171205	Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I (Theory)	Core Chemistry/ GE-2	Unit 1: Chemical Energetics	15 th Feb 2020	8 th March 2020

				Unit 2: Chemical Equilibrium	21 st March 2020	28 th April 2020
				Unit 3: Ionic Equilibrium	4 th May 2020	22 nd May 2020
4.	BSc (H) Chemistry III Year, VI Semester 32177903	Applications of Computers in Chemistry (Practical)	DSE	QBasic Programming	28 th Jan 2020	17 th April 2020
				MS Excel	20 th Apr 2020	18 th May 2020
5.	B.Sc. (H) Chemistry II Year, IV Semester 32171403	Conductance and Chemical Kinetics (Practical)	Core	Conductance Experiments	28 th Jan 2020	15 th Feb 2020
				Kinetics Experiments	17 th Feb 2020	6 th March 2020
6.	B.Sc. (H) Chemistry III Year, VI Semester 32177906	Polymer Chemistry (Practical)	DSE	Synthesis of Polymers Determination of their molar mass	28 th Jan 2020	7 th March 2020

B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

1. Event Topic	'Computational Chemistry and Molecular Modeling in Drug Design'
Type / Nature (FDP/Webinar/Workshop etc.)	Workshop
Organizing In-charge	Dr. Reena Saxena
Details regarding invited Resource Person	1.Prof. Rita Kakkar from the Department of Chemistry, University of Delhi 2. Prof. Hemant Kashyap, Department of Chemistry, IIT, Delhi

Nature of Participation (e.g. Invited Speaker, Participant etc.)		Resource Person			
Date/s	29 th Feb 2020	Timing/s	9:00 am to 5:00 pm	Mode	Hands-on Offline- College Academic Auditorium & Computer Lab

2. Event Topic		'Computational Chemistry and Molecular Modeling in Drug Design'			
Type / Nature (FDP/Webinar/Workshop etc.)		Online Workshop			
Organizing In-charge		Dr. Reena Saxena			
Details regarding invited Resource Person		Dr.Rakhi Thareja, Assistant Professor, Department of Chemistry, St.Stephens college, University of Delhi			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Resource Person			
Date/s	19 th -20 th May 2020	Timing/s	3:00 pm to 5:00 pm	Mode	Online
3. Event Topic		ICT: Instructional Design, Development & Learning Analytics			
Type / Nature (FDP/Webinar/Workshop etc.)		FDP			
Organizing In-charge		IQAC & UGC Paramarsh Scheme			
Details regarding invited Resource Person		<ol style="list-style-type: none"> 1. Prof. K Srinivas, NIEPA, 2. Sh.Parveen Kumar, Maharishi Markandeshwar University 3. Dr. Thiayagu K, Central University of Kerala 4. Sh. Deepak Bishla, Ambedkar University 5. Prof. R. C. Sharma, Ambedkar University 6. Mr. Ashish Kumar Awadhiya, Centre for Online Education, IGNOU 			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	24-30 July 2020	Timing/s	10AM -4PM	Mode	Online

C. Internal Assessment: House Exam (Test/Presentation etc.) & Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
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Chemistry/ GE-4	Chemistry of s- and p- block elements, States of Matter and Chemical Kinetics	42174404	Test on States of Matter (Gas and Liquids) and Chemical Kinetics	23 rd May 2020	25 th May 2020
Chemistry/ GE-2	Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I	42171205	Assignment on Chemical Energetics	7 th March 2020	01 st May 2020

***Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester**

D. Organization of Department/College Society Meetings by Staff Advisor/Convener

Department/Society	Meeting Date	Purpose

E. College Functions

College Function	Function Date	Role to be played

I – Academic Planner

A. Teaching Plan (Year: 2020-2021 Semester: Odd)

Teacher's Name Dr. Ruchi Sharma Pandey Department CHEMISTRY

S. No.	UPC	Paper Name	Core/AECC /GE/SEC	Topic/Unit	Start Date	End Date
1.	B.Sc. (H) Chemistry III Year, V Semester 32171502	Quantum Chemistry and Chemical Bonding (Theory)	Core	History of Quantum Mechanics	10 th Aug 2020	17 th August 2020
				Postulates of Quantum Mechanics	23 rd August 2020	4 th Sep 2020
				Free Particle and Particle in a box	7 th Sep 2020	17 th Sep 2020
				Simple Harmonic Oscillator	21 st Sep 2020	26 th Sep 2020
				Rotational Motion	28 th Sep 2020	5 th Oct 2020
				Hydrogen Atom	11 th Oct 2020	19 th Oct 2020
				Approximate Methods	26 th Oct 2020	9 th Nov 2020
				Chemical Bonding	16 th Nov 2020	22 nd Nov 2020
2.	BSc (H) Chemistry II Year, III Semester 32171303	Phase Equilibria and Electrochemistry (Theory)	Core	Unit 1: Phase Equilibria	17 th Aug 2020	10 th Oct 2020
				Unit 3: Surface Chemistry	12 th Oct 2020	16 th Oct 2020
				Unit 2: Electrochemistry	17 th Oct 2020	20 th Oct 2020
3.	BSc (P) Physical Sciences II	IT Skills for Chemists (Practical)	SEC	Unit 1: Spreadsheets	18 th Aug 2020	20 th Oct 2020

	Year, III Semester 32173901					
				Unit 2: Drawing Chemical Structures, Reactions and Mechanisms	25 th Oct 2020	3 rd Nov 2020
				Unit 3: Document Editor	5 th Nov 2020	20 th Nov 2020
4.	BSc (P) Physical Sciences, II Year, III Semester 42174304	Solutions, Phase Equilibria, Organic Functional Group Analysis (Practical)	Core	Conductance Experiments	27 th Aug 2020	8 th Sep 2020
				Phase Equilibria	4 th Oct 2020	15 th Oct 2020
				Potentiometry	7 th Nov 2020	18 th Nov 2020
5.	B.Sc. (P) Analytical Chemistry III Year, V Semester 42177925	Chemistry of d-block elements, Quantum Chemistry and Spectroscopy (Practical)	DSE	Colorimetry	19 th Aug 2020	2 nd Sep 2020
				Gravimetry	9 th Sep 2020	17 th Sep 2020
				Complexometric Titrations	23 rd Sep 2020	7 th Oct 2020
				UV-Vis Spectroscopy	14 th Oct 2020	18 th Nov 2020
6.	B.Sc. (P) Analytical Chemistry III Year, V Semester 42177915	Analytical Biochemistry (Practical)	DSE	Carbohydrates, Lipids, Proteins, DNA extraction	20 th Aug 2020	20 th Nov 2020

B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

1. Event Topic	Innovation in Scientific Research Method				
Type / Nature (FDP/Webinar/Workshop etc.)	FDP				
Organizing In-charge	DBT Star college Scheme, Dr. Reena Saxena, Coordinator-Chemistry				
Details regarding invited Resource Person	<ul style="list-style-type: none"> • Dr. Balram Pani, Dean of Colleges, Principal, Bhaskaracharya College of Applied Sciences, University of Delhi • Prof. Shashank Deep Department of Chemistry, Indian Institute of Technology, Delhi • Prof. Diwan S. Rawat Department of Chemistry, University of Delhi • Prof. Paramjit Khurana, Department of Plant Molecular Biology, University of Delhi • Prof. Suman Lakanpaul, Department of Botany, University of Delhi • Prof T.R. Seshadari, Department of Physics and Astrophysics, University of Delhi • Prof. Kirti Ranjan, Department of Physics and Astrophysics, University of Delhi • Dr. Charulata, National Institute of Science communication and Information Resources • Dr. Anil K. Mishra, Institute of Nuclear Medicine and Allied Sciences, DRDO • Dr. Nipun Arora, Assistant Professor, Department of Mechanical Engineering, IIT, Jodhpur 				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	14-18 th October 2020	Timing/s	4-6 pm	Mode	Online

2. Event Topic	Multifunctional Nanomaterials for Advanced Applications in Healthcare				
Type / Nature (FDP/Webinar/Workshop etc.)	Webinar				
Organizing In-charge	Dr. Reena Saxena, Coordinator-Chemistry, DBT Star college scheme				
Details regarding invited Resource Person	Dr. Indrajit Roy				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	16-09-20	Timing/s	12:30-1:30pm	Mode	Online

C. Internal Assessment: House Exam (Test/Presentation etc.) & Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
CORE	Quantum Chemistry and Chemical Bonding	32171502	Quantum chemistry up to H-atom problem	18 th Nov 2020	26 th Nov 2020
CORE	Phase Equilibria and Electrochemistry	32171303	Phase Equilibria	24 th Oct 2020	07 st Nov 2020

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D. Organization of Department/College Society Meetings by Staff Advisor/Convener

Department/Society	Meeting Date	Purpose

E. College Functions

College Function	Function Date	Role to be played

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B. Teaching Plan (Year: 2020-2021 Semester: Even)

Teacher's Name Dr. Ruchi Sharma Pandey Department CHEMISTRY

S. No.	UPC	Paper Name	Core/AECC /GE/SEC	Topic/Unit	Start Date	End Date
1.	B.Sc. (H) Chemistry III Year, VI Semester 32177903	Applications of Computers in Chemistry (Practical)	DSE	Spreadsheets – MS Excel	04 th Jan 2021	23 rd Jan 2021
				QBASIC Programming	23 rd Jan 2021	20 th March 2021
				Numerical Methods	1 st Apr 2021	30 th Apr 2021
2.	BSc (H) Chemistry III Year, VI Semester 32177906	Polymer Chemistry (Practical)	DSE	Synthesis and Characterization	04 th Jan 2021	29 th April 2021
3.	BSc (H) Chemistry II Year, IV Semester 32171403	Conductance and Kinetics (Theory)	CORE	Unit 1: Conductance	04 th Jan 2021	20 th March 2021
				Unit 3: Catalysis	1 st Apr 2021	29 th April 2021
4.	BSc (H) Chemistry II Year, IV Semester	Conductance and Kinetics (Practical)	CORE	Unit 1: Conductance	04 th Jan 2021	20 th March 2021

	32171403					
				Unit 2: Kinetics	1 st Apr 2021	29 th April 2021
5.	BSc (P) Physical Sciences, II Year, IV Semester 42174404	Chemistry of s- & p- block elements, States of Matter and Chemical Kinetics (Theory)	Core	Gases Liquids Solids Chemical Kinetics	04 th Jan 2021 15 th Feb 2021 1 st Mar 2021 01 st Apr 2021	13 th Feb 2021 28 th Feb 2021 22 nd Mar 2021 29 th April 2021
6.	B.Sc. (P) Physical Sciences I Year, II Semester 42171205	Chemical Energetics, Equilibria and Functional Group Organic Chemistry - I (Theory)	CORE	Chemical Energetics	01 st Apr 2021	15 th May 2021
				Chemical Equilibrium	16 th May 2021	15 th Jun 2021
				Ionic Equilibrium	16 th Jun 2021	20 th July 2021

F. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

1. Event Topic	Gift of Science to the Society
Type / Nature (FDP/Webinar/Workshop etc.)	Webinar
Organizing In-charge	Seminar Committee, Kirori Mal College
Details regarding invited Resource Person	Prof. Ashok Kumar Ganguli, Department of Chemistry, IIT-Delhi
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant

Date/s	20 th Nov 2020	Timing/s	11:00 am-12:00 noon	Mode	Online
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2. Event Topic					
Type / Nature (FDP/Webinar/Workshop etc.)		Webinar			
Organizing In-charge					
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)					
Date/s		Timing/s		Mode	

G. Internal Assessment: House Exam (Test/Presentation etc.) & Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining

*Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester

H. Organization of Department/College Society Meetings by Staff Advisor/Convener

Department/Society	Meeting Date	Purpose

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I. College Functions

College Function	Function Date	Role to be played

I – Academic Planner

A. Teaching Plan (Year: 2021-2022 Semester: Odd)

Teacher's Name Dr. Ruchi Sharma Pandey Department CHEMISTRY

S. No.	UPC	Paper Name	Core/AECC /GE/SEC	Topic/Unit	Start Date	End Date
1.	B.Sc. (H) Chemistry III Year, V Semester 32171502	Quantum Chemistry and Chemical Bonding (Practical)	Core	Colorimetry Experiments	20 th July 2021	17 th Sep 2021
				UV-Visible Spectroscopy Experiments	23 rd Sep 2021	10 th Nov 2021
2.	BSc (H) Chemistry II Year, III Semester 32171303	Phase Equilibria and Electrochemistry (Practical)	Core	Phase Equilibria Experiments	20 th Aug 2021	30 th Oct 2021
				Potentiometry Experiments	3 rd Nov 2021	24 th Nov 2021
				Distribution Law Experiments	1 st Dec 2021	8 th Dec 2021
3.	BSc (P) Physical Sciences II Year, III Semester 32173901	IT Skills for Chemists (Practical)	SEC	Spreadsheets	20 th Aug 2020	20 th Oct 2020
				Drawing Chemical Structures, Reactions and Mechanisms	25 th Oct 2020	3 rd Nov 2020
				Document Editor	5 th Nov 2020	8 th Dec 2020

4.	BSc (P) Physical Sciences II Year, III Semester 32173901	IT Skills for Chemists (Theory)	SEC	Unit 1, 3 and 4	20 th Aug 2020	1 st Nov 2020
				Unit 2	8 th Nov 2020	22 nd Nov 2020
				Unit 5	29 th Nov 2020	8 th Dec 2020
5.	BSc (P) Physical Sciences III Year, V Semester 32173902	Basic Analytical Chemistry (Practical)	SEC	Experiments in syllabus	20 th July 2021	13 th Nov 2021
6.	BSc (P) Physical Sciences III Year, V Semester 32173902	Basic Analytical Chemistry (Practical)	SEC	Unit 1: Analytical Chemistry	20 th July 2021	14 th Aug 2021
				Unit 2: Soil	21 st Aug 2021	4 th Sep 2021
				Unit 3: Water	11 th Sep 2021	9 th Oct 2021
				Unit 4: Chromatography	16 th Oct 2021	16 th Nov 2021
7.	B.Sc. (H) Chemistry I Year, I Semester 32171102	Physical Chemistry-I States of Matter and Ionic Equilibrium (Theory)	Core	Ionic Equilibrium	22 nd Nov 2021	20 th Jan 2022
				Solid State	21 st Jan 2022	11 th Mar 2022

B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

1. Event Topic	Hands-on Workshop on UV Visible Spectrophotometry and its Applications				
Type / Nature (FDP/Webinar/Workshop etc.)	Workshop				
Organizing In-charge	DBT Star college Scheme, Dr. Reena Saxena, Coordinator-Chemistry				
Details regarding invited Resource Person	Dr. Kiran Arora and Dr. Ruchi Sharma Pandey, Department of Chemistry, Kirori Mal College				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Invited Speaker/Resource Person				
Date/s	19 th July 2021	Timing/s	3-5 pm	Mode	Online

2. Event Topic	Colloquium: International Lecture Series				
Type / Nature (FDP/Webinar/Workshop etc.)	Lectures				
Organizing In-charge	Seminar Committee, Department of Chemistry, Kirori Mal College				
Details regarding invited Resource Person	Dr. Ashok Prasad, Dean, Faculty of Science and Head, Department of Chemistry, DU Dr. Vivek Sharma, Associate Director, Technology – Nucleic Acids, MassBiologics, USA				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Invited Speaker/Resource Person				
Date/s	17 th September 2021	Timing/s	2:30-5:00pm	Mode	Online

3. Event Topic	Online Tools for Chemistry				
Type / Nature (FDP/Webinar/Workshop etc.)	Workshop				
Organizing In-charge	Seminar Committee, Department of Chemistry, Kirori Mal College				
Details regarding invited Resource Person	Dr. Shashwat Malhotra and Dr. Ruchi Sharma Pandey, Department of Chemistry, Kirori Mal College				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Invited Speaker/Resource Person				
Date/s	22 nd -23 rd October 2021	Timing/s	2:30-5:30pm	Mode	Online

4. Event Topic	Practical Numerical Methods in Python				
Type / Nature (FDP/Webinar/Workshop etc.)	Workshop				
Organizing In-charge	CDTE, Indian Institute of Technology - Kanpur				
Details regarding invited Resource Person	Prof. Mahendra Verma, Department of Physics, Indian Institute of Technology - Kanpur				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	19 th -25 th November 2021	Timing/s	9:00 am to 4:00 pm	Mode	Online

C. Internal Assessment: House Exam (Test/Presentation etc.) & Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
SEC	IT Skills for Chemists	32173901	Unit 1: Mathematical Concepts	15 th Nov 2021	1 st Dec 2021
SEC	Basic Analytical Chemistry	32173902	Unit 1 and 2: Analytical Chemistry and Soil	27 th Oct 2021	07 th Nov 2021

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