

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, Kirori Mal College		
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	DBT Star College Scheme, Kirori Mal College		
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 th Nov 2020

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

I – Academic Planner

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 32171403	Conductance and Kinetics (Practical)	CORE	Unit 1: Conductance	04 th Jan 2021	20 th March 2021
				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

D. 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

2. Event Topic		Empowering Diversity in Science			
Type / Nature (FDP/Webinar/Workshop etc.)		International Webinar			
Organizing In-charge		Department of Chemistry, Miranda House, University of Delhi			
Details regarding invited Resource Person		Multiple speakers			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	12 Feb 2021	Timing/s	3 PM – 7 PM	Mode	Online

E. 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
582	B.Sc. (P) Physical Sciences I Year, II Semester	42171205	Unit 1: Chemical Energetics	June 11, 2021	July 2, 2021
582	BSc (P) Physical Sciences, II Year, IV Semester	42174404	Gases, Liquids and Solids	April 28, 2021	May 5, 2021
577	BSc (H) Chemistry II Year, IV Semester	32171403	Conductance	April 23, 2021	May 1, 2021

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