

महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

कक्षा : बी.एस-सी. भाग-तीन			पाठ्यक्रम योजना : सत्र २०१७-२०१८		विषय : रसायनशास्त्र
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
17.07.17	1	Dr. S.K.Vernwal	IV	Separation Techniques	Principle & Analytical Application
17.07.17	1	Priyanka Mishra	III	Molecular Rearrangement &	Pinacol- Pinacolone
				Name reaction	Rearrangement
18.07.17	2	Dr.S.K.Vernwal	IV	Separation Techniques	Chromatography (Paper & Thin layer)
18.07.17	2	Priyanka Mishra	III	Molecular Rearrangement	Benzil- Benzilic Acid Rearrangement
				& Name Reaction	
19.07.17	1	Dr. R Sahay	I	Photochemistry	Thermochemical & Photochemical Reaction
					Law of Photochemistry
20.07.17	2	Dr. R Sahay	I	Photochemistry	Photophysical Process Jablonski Diagram
21.07.17	1	S.Jaiswal	II	Lanthanides	Introduction, Electronic Configuration
22.07.17		S.Jaiswal		CLASS TEACHING	
24.07.17	3	Dr.S.K.Vernwal	IV	Separation Techniques	Column Chromatography
24.07.17	3	Priyanka Mishra	III	Molecular Rearrangement	Benzil Benzilic Acid Rearrangement
				& Name Reaction	
25.07.17	4	Dr.S.K.Vernwal	IV	Separation Techniques	HPCL, Ion-Exchange Chromatography
25.07.17	4	Priyanka Mishra	III	Molecular Rearrangement	Beckmann Rearrangement
				& Name Reaction	
26.07.17	3	Dr.R.Sahay	I	Photochemistry	Grotthus-Draper law, Stark - Einstein
					Law, Various process Occuring in the excited
					state
27.07.17	4	Dr. R. Sahay	I	Photochemistry	Qualitative Description of Fluorescence,
					Phosphorescence
29.07.17	2	S.Jaiswal	II	Lanthanides	Atomic And Ionic Radii, Lanthanides
					Contraction
31.07.17	5	Dr. S.K. Vernwal	IV	Separation Techniques	Solvent Extraction
31.07.17		S.Jaiswal		MONTHLY EVALUTATION	
01.08.17	6	Dr.S.K.Vernwal	IV	Enzymes & Coenzymes	General features of enzymes & their active
					site
01.08.17	5	Priyanka Mishra	III	Molecular Rearrangement &	Fries Rearrangement
				Name Reaction	

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02.08.17	6	Priyanka Mishra	III	Molecular Rearrangement & Dieck Mann's Reaction	
				Name Reaction	
03.08.17	5	Dr.R. Sahay	I	Photo Chemistry	Non-Radiative Process, Quantum Yield
04.08.17	6	Dr .R. Sahay	I	Photo Chemistry	Photosensitized Reaction Energy, Transfer
					Process
05.08.17	3	S.Jaiswal	II	Lanthanides	Oxidation State & Their Stability
08.08.17	7	Dr. S.K. Vernwal	IV	Enzymes & Coenzymes	Ribozymes & Abzymes
08.08.17		S.Jaiswal		CLASS TEACHING	
9.08.17	7	Priyanka Mishra	III	Molecular Rearrangement & Claisen- Smith Reaction	
				Name Reaction	
10.08.17	8	Priyanka Mishra	III	Polymers	Types Of Polymerisation
11.08.17	7	Dr. R. Sahay	I	Nuclear Chemistry	Fundamental Particals, Nuclear Models
12.08.17	8	Dr. R. Sahay	I	Nuclear Chemistry	Liquid drop Models, Nuclear Models
13.08.17	8	Dr. S.K. Vernwal	IV	Enzymes & Coenzymes	Enzymes nomenclature
13.08.17	4	S.Jaiswal	II	Lanthanides	Consequences Of Lanthanides Contraction
16.08.17		S.Jaiswal		CLASS TEACHING	
17.08.17	9	Priyanka Mishra	III	Polymers	Mechanism of Polymerisation
18.08.17	10	Priyanka Mishra	III	Polymers	Mechanism of Polymerisation
19.08.17	9	Dr. R. Sahay	I	Nuclear Chemistry	Nuclear Force, Nuclear Fission, Fusion &
					its Applications
21.08.17	9	Dr. S.K. Vernwal	IV	Enzymes & Coenzymes	Units of enzyme activity
21.08.17	10	Dr. R. Sahay	I	Nuclear Chemistry	Spallation, Nuclear Cross Section,
					Radio Activity
22.08.17	10	Dr. S.K. Vernwal	IV	Enzymes & Coenzymes	Derivatuion of Michaelis Menten equatiion
22.08.17	5	S.Jaiswal	II	Lanthenides	 ³⁺ ions
23.08.17		S.Jaiswal		CLASS TEACHING	
24.08.17	11	Priyanka Mishra	III	Polymers	Mechanism of Polymerisation
25.08.17	12	Priyanka Mishra	III	Polymers	Preparation and Use of Teflon, Teryline, Ny
					lon and Dynel
26.08.17	11	Dr.R.Sahay	I	Nuclear Chemistry	Applications of Radioactivity

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28.08.17	11	Dr.S.K.Vernwal	IV	Enzymes & Coenzymes	Experimental determination of K_m & V_{max}
28.08.17	12	Dr. R. Sahay	I	Surface Chemistry	Introduction, Physical & Chemical Adsorption
29.08.17	12	Dr. S.K. Vernwal	IV	Enzymes & Coenzymes	Physical significance of K_m , V_{max} & K_{cat}/K_m
29.08.17	6	S.Jaiswal	II	Lanthanides	Ground State Term Symbols
31.08.17		S.Jaiswal		Monthly Evaluation	
01.09.17	13	Priyanka Mishra	III	Polymers	Natural & synthetic rubber
02.09.17	14	Priyanka Mishra	III	Dyes	Colour & constitution
05.09.17	13	Dr.S.K.Vernwal	IV	Enzymes & coenzymes	Competitive, uncompetitive, noncompetitive & suicidal inhibitors
05.09.17	13	Dr.R. Sahay	I	Surface chemistry	Freundlich & Langmuir adsorption isotherm
06.09.17	14	Dr. R. Sahay	I	Surface chemistry	B.E.T equation, determination of surface area
07.09.17	7	Sanjay Jaiswal	II	Lanthanides	Magnetic moment of lanthanides
08.09.17		Sanjay Jaiswal		Class Teaching	
09.09.17	15	Priyanka Mishra	III	Dyes	Classification of dyes
11.09.17	14	Dr.S.K.Vernwal	IV	Enzymes & coenzymes	Factors affecting the enzyme activity
11.09.17	16	Priyanka Mishra	III	Dyes	Methyl orange & congo red
12.09.17	15	Dr.S.K.Vernwal	IV	Enzymes & coenzymes	Brief description of coenzymes
12.09.17	15	Dr. R.Sahay	I	Solution & Colligative	Thermodynamic derivation of relation between properties
					molecular weight in boiling point & depression
					in freezing point
13.09.17	16	Dr. R. Sahay	I	Solution & Colligative	Experiment method for determination of properties
					various colligative properties
14.09.17	8	Sanjay Jaiswal	II	Lanthanides	Ability to form complexes
15.09.17		Sanjay Jaiswal		Class Teaching	
16.09.17	17	Priyanka Mishra	III	Dyes	Malachite green & crystal violet
18.09.17	16	Dr.S.K.Vernwal	IV	Enzymes & Conenzymes	Function of thiamine pyrophosphate (TPP)
18.09.17	18	Priyanka Mishra	III	Dyes	Phenolphthaline & Fluorescence
19.09.17	17	Sanjay Jaiswal	IV	Nuclic Acids	A General Description of DNA & RNA
19.09.17	17	Dr.R. Sahay	I	Solution & colligative	Abnormal molar mass, degree of dissociation
				properties	& association of solutes

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21.09.17	18	Dr.R Sahay	I	Statistical thermodynamic	Introduction microstate partition function
					boltzman factor
22.09.17	19	Priyanka Mishra	III	Polynuclear Hydrocarbons	Chemistry of Anthracene
23.09.17		Priyanka Mishra		Monthly Evaluaton	
25.09.17	18	Sanjay Jaiswal	IV	Nucleic Acids	Sailent features of DNA & RNA
25.09.17	19	Dr. R Sahay	I	Statistical Themodynamic	Relation between Partition Function &
					Thermodynamic Function
26.09.17	19	Sanjay Jaiswal	IV	Nucleic Acids	DNA denatturation & renaturation, effect of
					UV radiations on DNA
26.09.17	20	Dr. R Sahay	I	Statistical Themodynamic	Translational Rotational & Vibrational
					Partition Function
27.09.17	9	Sanjay Jaiswal	II	Lanthanides	Occurance & principle of sepration of
					lanthanides
03.10.17	20	Sanjay Jaiswal	IV	Nucleic acids	Elementry idea of genetic code & recombinant
					DNA technology
03.10.17	10	Sanjay Jaiswal	II	Lanthanides	Uses of lanthanides & their compounds
04.10.17	20	Priyanka Mishra	III	Polynuclear Hydrocarbons	Chemistry of Anthracene
06.10.17		Priyanka Mishra		Class Teaching	
07.10.17	21	Dr.R Sahay	I	Quantum mechanics	Black body radiation, Plank's radiation law,
					compton effect
09.10.17	21	Sanjay Jaiswal	IV	Role of metals in biological	Introduction of Fe, Mg, Cu & Zn
				system	
09.10.17	22	Dr.R Sahay	I	Quantum mechanics	Photoelectric effect concept of wave motion,
					De-brogele hypothesis
10.10.17	22	Sanjay Jaiswal	IV	Role of metal in biological	Fe in myoglobin & hemoglobin
				system	
10.10.17	11	Sanjay Jaiswal	II	Actinides	Introductions and electronic configuration of
					actinides
11.10.17	12	Sanjay Jaiswal	II	Actinides	Atomic & Ionic Radii, ionisation energy of

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					actinides
12.10.17	21	Priyanka Mishra	III	Polynuclear Hydrocarbons	Chemistry of Phenanthrene
13.10.17		Priyanka Mishra	III	Class Teaching	
14.10.17	23	Dr. R. Sahay	I	Quantum Mechanism	Heisenberg's, uncertainty principle, difference
					classical & quantum mechanics
16.10.17	23	Sanjay Jaiswal	IV	Role of metals in biological	Cu in Plastocyanin & Hemocynin
				systems	
16.10.17	24	Dr. R. Sahay	I	Quantum Mechanism	Schrodinger wave equations & its physical
					significance
23.10.17	13	Sanjay Jaiswal	IV	Role of metals in biological	Zn in carboxypep tidase & carbonic
				systems	andhydrase
23.10.17	13	Sanjay Jaiswal	II	Actinides	Oxidation state & their stability
24.10.17	25	Sanjay Jaiswal	IV	Roles of metals in biological	Mg in chlorophyll
24.10.17	14	Sanjay Jaiswal	II	Actinides	Colour & absorption spectra of acitnides
25.10.17	22	Priyanka Mishra	III	Polynuclear Hydrocarbons	Chemistry of Phenanthrene
26.10.17		Priyanaka Mishra	III	Monthly Evaluation	
27.10.17	25	Dr. R. Sahay	I	Quantum Mechanics	Hamiltonion operator & importance of S.W.E
28.10.17	26	Dr. R. Sahay	I	Quantum Mechanism	S.W.E for H-atom, Quantum number & their
					importance
30.10.17	26	Pradeep Kumar Verma	IV	Errors & evaluation	Introduction, mean & median
30.10.17	15	Sanjay Jaiswal	II	Actinides	Magnetic properites of actinides
31.10.17	27	Pradeep Kumar Verma	IV	Errors & evaluation	Accuracy & precision
31.10.17	16	Sanjay Jaiswal	II	Actinides	Complex formation in actinides
01.11.17	23	Priyanka Mishra	III	Polynuclear Hydrocarbons	Carcinogenic Hydrocarbons
02.11.17		Priyanka Mishra		Class Teaching	
03.11.17	27	Dr. R. Sahay	I	Quantum Mechanics	Hydrogen like wave function radial wave
					function, angular wave function
06.11.17	28	Pradeep Kumar Verma	IV	Error & evalutation	Significant figure, absolute error, relative error
06.11.17	28	Dr.R. Sahay	I	Quantum Mechanics	M.O.T criteria for forming, M.O from A.O
					construction of M.O by LCAO Method

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07.11.17	29	Pradeep Kumar Verma	IV	Error & evaluation	Application of statistics
07.11.17	17	Sanjay Jaiswal	II	Actinides	Chemistry of separation
08.11.17	18	Sanjay Jaiswal	II	Actinides	One synthesis each of Np- Lr
10.11.17	24	Priyanka Mishra	III	Heterocycles	Chemistry of Indole
11.11.17		Priyanka Mishra		Class Teaching	
13.11.17	30	Pradeep Kumar Verma	IV	Error & evaluation	Types of error
13.11.17	29	Dr. R. Sahay	I	Quantum Mechanics	H ₂ ⁺ ion, calculation of energy levels from wave function
14.11.17	31	P.K.Verma	IV	Error & evaluation	Determinate, indeterminate & gross errors
14.11.17	30	Dr. R. Sahay	I	Quantum Mechanics	Physical picture of bonding & antibonding wave function
15.11.17	19	Sanjay Jaiswal	II	Coordination	CFT & its drawback
16.11.17	20	Sanjay Jaiswal	II	Coordination	D - orbital splitting in tetrahedral field
17.11.17	31	Dr.R.Sahay	I	Quantum mechanics	 s , s *, p , p * orbital & their characteristics
18.11.17		Dr.R. Sahay		Classs Teaching	
20.11.17	32	Pradeep Kumar Verma	IV	Error & Evaluation	Source of errors & effect upon analytical result
20.11.17	21	Sanjay Jaiswal	II	Co-ordination	D - orbital splitting in octahedral & SP field
21.11.17	33	Pradeep Kumar Verma	IV	Heterocycles	Evaluation of data & use of statistics
21.11.17	22	Sanjay Jaiswal	II	Co-ordination	Dq & factors affecting its magnitude
22.11.17	25	Priyanka Mishra	III	Heterocycles	Chemistry of Quinoline
23.11.17	26	Priyanka Mishra	III	Heterocycles	Chemistry of Isoquinoline
24.11.17	32	Dr. R. Sahay	I	Spectroscopy	Electromagnetic radiation regions of spectrum basic features of different spectrometers
25.11.17		Dr.R. Sahay		Monthly Evaluation	
27.11.17	34	Priyanka Mishra	IV	Gravimetric analysis	Introduction and principle
27.11.17	23	Sanjay Jaiswal	II	Co-ordination	Calculation of CFSE for d ¹ to d ⁹ system
28.11.17	35	Priyanka Mishra	IT	Gravimetric analysis	Various steps involved in gravimetric analysis
28.11.17	24	Sanjay Jaiswal	II	Co-Ordination	Magnetic properties on the basis of CFT

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29.11.17	27	Priyanka Mishra	III	Amino Acids Peptides &	Classification of Amino Acids
				proteins	
30.11.17	28	Priyanka Mishra	III	Amino Acids Peptides &	Classification of Amino Acids
				proteins	
01.12.17	33	Dr.R. Sahay	I	Spectroscopy	Born - oppenheimer approximation degree
					of freedom
02.12.17		Dr.R. Sahay		Class Teaching	
03.12.17	36	Priyanka Mishra	IV	Gravimetric analysis	Estimation of Ba as BaSO ₄
03.12.17	25	Sanjay Jaiswal	II	Co-ordination	Types of electronics transition
06.12.17	26	Sanjay Jaiswal	II	Co-ordination	Selection rule, charge transfer
07.12.17	29	Priyanka Mishra	III	Amino Acid Peptides &	Synthesis of amino acids
				protiens	
08.12.17	30	Priyanka Mishra	III	Amino Acids Peptides &	Synthesis of polypeptides
				proteins	
09.12.17	34	Dr.R. Sahay	I	Spectroscopy	Diatomic molecules, energy levels of a rigid
					rotor, selection rules, distribution determina
					tion of bond length
11.12.17	37	Priyanka Mishra	IV	Gravimetric analysis	Co precipitation & post precipitation
11.12.17		Dr.R. Sahay	I	Class Teaching	
12.12.17	38	Pradeep Kumar Verma	IV	Volumetric analysis	General terms used in volumetric analysis
12.12.17	27	Sanjay Jaiswal	II	Co-ordination	Electronic spectra of [Ti(H ₂ O)] ³⁺ &
					[Cu(H ₂ O)] ⁺⁺
13.12.17	28	Sanjay Jaiswal	II	Metal carbonyls	Introduction ligand behavior of co
13.12.17	35	Dr. Ram Sahay	I	Spectro's Copy	Qualtative Description of Non- Rigid Rotor
					Isotope Effect Infrared Spectrum
14.12.17	31	Priyanka Mishra	III	Amino Acid peptides &	Determination of structure of polypeptides
				proteins	
15.12.17	32	Priyanka Mishra	III	Amino Acid peptides &	Classification of proteins
				proteins	
16.12.17	35	Dr. R. Sahay	I	Spectroscopy	Qualitative description of non rigid rotor

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					isotope effect, infrared spectrum
18.12.17	39	Pradeep Kumar Verma	IV	Volumetric analysis	Principles of acid base titration
18.12.17		Dr.R. Sahay	I	Class Teaching	
19.12.17	40	Pradeep Kumar Verma	IV	Volumetric analysis	Redox titration & PPT titration
19.12.17	29	Sanjay Jaiswal	II	Metal Carbonyls	General method of preparation
20.12.17	30	Sanjay Jaiswal	II	Metal Carbonyls	Representation of structure of binary
					carbonyls of V, Cr, Mn
21.12.17	33	Priyanka Mishra	III	Amino Acid peptide &	Proteins denaturation & renaturation
				protein	
22.12.17	34	Priyanka Mishra	III	Amino Acid peptide &	Structure of proteins
				protein	
23.12.17	36	Dr.R. Sahay	I	Spectroscopy	Pure vibrational spectrum intensity, force
					constant anharmonic motion, vibrational
					frequencies of different functional group
24.12.17	41	Pradeep Kumar Verma	IV	Volumetric Analysis	Iodimetry & Iodometry complexometric
					titration
26.12.17		Dr.R. Sahay	I	Monthly Evaluation	
27.12.17	31	Sanjay Jaiswal	II	Metals carbonyls	Structures of Fe, Co, Ni
28.12.17	32	Sanjay Jaiswal	II	Metal Nitrosyls	Ligand Behaviour of NO (NO ⁺ , NO ⁻ &
					bridging NO)
29.12.17	35	Priyanka Mishra	III	Elimination reaction	E1 reaction
30.12.17	36	Priyanka Mishra	III	Elimination reaction	E1 reaction
01.01.17	42	Pradeep Kumar Verma	IV	Volumetric analysis	Use of EDTA for the determination of Ca ²⁺
					& Mg ²⁺
01.01.18	37	Dr.R. Sahay	I	Spectroscopy	Raman spectrum, polarizability condition for
					Raman active vibrations, mutual exclusion principle
02.01.18	43	Pradeep Kumar Verma	IV	Volumetric analysis	Types of EDTA titrations, metal ion indicator
02.01.18		Dr.R. Sahay	I	Class teaching	
03.01.18	33	Sanjay Jaiswal	II	Metal Nitrosyls	Preparation & structure of nitrosyls of

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					Cr, Fe & Ru
04.01.18	34	Sanjay Jaiswal	II	Metal Nitrosyls	Preparation & structure of Nitrosyl of Cr, Fe
					& Ru
05.01.18	37	Priyanka Mishra	III	Elimination Reaction	E2- Reaction
06.01.18	37	Priyanka Mishra	III	Elimination Reaction	E2- Reaction
08.01.18	44	Priyanka Mishra	IV	Biological Membranes	General Features and fluidmosaic model
08.01.18	38	Dr.R. Sahay	I	Spectroscopy	Pure rotational & pure vibrational Raman
					Spectra of diatomic molecule
09.01.18	45	Priyanka Mishra	IV	Biological Membranes	Diffusion, facilitated diffusion and active
					transport
09.01.18		Dr.R. Sahay		Class Teaching	
10.01.18	35	Sanjay Jaiswal	II	Metal Nitrosyls	Carbonyl Nitrosyls & Cyano Nitrosyls
11.01.18	36	Sanjay Jaiswal	II	Environmental Chemistry	Earth Atmosphere & its Components
12.01.18	37	Priyanka Mishra	III	Elimination Reaction	E1cb- Reaction
16.01.18	46	Priyanka Mishra	IV	Biological Membrane	Donnan Membrane equilibria & their energy
					levels
16.01.18	40	Priyanka Mishra	III	Elimination reaction	Distinction between E1, E2 & E1cb reaction
17.01.18	39	Dr.R. Sahay	I	Spectroscopy	Concept of potential energy curves for
					bonding & antibonding, molecular orbital
18.01.18		Dr.R. Sahay		Class Teaching	
19.01.18	37	Sanjay Jaiswal	II	Environmental Chemistry	Types of pollutants & their source
20.01.18	38	Sanjay Jaiswal	II	Environmental Chemistry	Green house effect & global warming
22.01.18	41	Priyanka Mishra	III	Reaction Intermediate	Carbocations (Classical & Non- Classical)
23.01.18	42	Priyanka Mishra	III	Reaction Intermediate	Carbanions & free radicals
24.01.18	40	Dr.R Sahay	I	Spectroscopy	Franck Condon principle selection rule
25.01.18		Dr.R Sahay		Monthly Evaluation	
27.01.18	39	Sanjay Jaiswal	II	Environmental chemistry	Acids rains
29.01.18	40	Sanjay Jaiswal	II	Environmental chemistry	Ozone Layer depletion
29.01.18	43	Priyanka Mishra	III	Reaction Intermediate	Carbene & Nitrene
30.01.18	44	Priyanka Mishra	III	Reaction Intermediate	Benzene

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