

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

कक्षा : एम.एस-सी० III सेमेस्टर			पाठ्यक्रम योजना : सत्र २०१७-२०१८		विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
17.07.17	1	PM	II	Cyclosterio Isomerism	Configuration & Conformation of mono
					Substituted cyclohexane
17.07.17	1	S J	I	U V visible Spectroscopy	Different types of Electronic Transition
18.07.17	2	SKV	II	Stereochemistry with chiral	General Introduction
				centre	
18.07.17	1	PKV	I	Diffraction Method	X-Ray principle elicidation of crystal struc
					ture NaCl by X-Ray
19.07.17	3	SKV	II	Stereochemistry with chiral	Elements of symmetry
				centre	
19.17.17	1	P M	IV	Water Soluble Vitamins	Structure of Vitamin C
20.07.17	1	SKV	III	Rearrangements	Pinacol- Pinacolone rearrangement
20.07.17	2	PM	IV	Water Soluble Vitamins	Structure of Vitamin C
21.07.17	2	SKV	III	Rearrangements	Pinacol- Pinacolone rearrangement
21.07.17	3	PM	IV	Water Soluble Vitamins	Structure of Vitamin C
22.07.17	3	SKV	III	Rearrangements	Wagner- Meerwein Rearrangement
22.07.17		PKV		Class Teaching	
24.07.17	4	PM	II	Cyclosterio isomerism	Stability of mono substituted cyclohexane
24.07.17	2	SJ	I	U V visible Spectroscopy	Lambert's beer's law
25.07.17	5	SKV	II	Stereochemistry with chiral	Molecules with more than one chiral centre
				centre	
25.07.17	3	SJ	I	U V visible Spectroscopy	Chromophores & Auxochromes
26.07.17	6	SKV	II	Stereochemistry with chiral	Thero and Erythro isomer
				centre	
26.07.17	4	PM	IV	Water Soluble Vitamins	Biological Function of Vtamin C
27.07.17	4	SKV	III	Rearrangements	Tiffenew- Demjanov Arrangement
27.07.17	5	PM	IV	Water Soluble Vitamins	Structure of vitamin B ₁
29.07.17	5	SKV	III	Rearrangements	Dienone phenol rearrangement
29.07.17	2	PKV	I	Diffraction method	Structure factor and Phase Problem
31.07.17		PM		MONTHLY EVALUATION	
31.07.17	4	SJ	I	U V visible Spectroscopy	Solvent Effect

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01.08.17	7	PM	I	Cyclosterio Isomerism	Configuration and configuration of
					disubstituted cyclohexane
01.08.17	3	PKV	I	Diffraction mthod	Method for structure determination by trial
					& error methods
02.08.17	8	SKV	II	Stereochemistry with chiral	Intreronversion of Fischer and Newmann
				centre	projections
02.08.17	6	PM	IV	Water Soluble Vitamins	Structure of Vitamin -B ₁
03.08.17	6	SKV	III	Rearrangements	Sommelet- Hauser rearrangement
03.08.17	7	PM	IV	Water Soluble Vitamins	Biological function of Vitamin -B ₁
04.08.17	7	SKV	III	Rearrangements	Stevens rearrangement
04.08.17	8	PM	IV	Water Soluble Vitamins	Structure of of Vitamin -B ₂
05.08.17	8	SKV	III	Rearrangements	Favorskii rearrangement
05.08.17	4	PKV	I	Diffraction Methods	Fouriers mrthod of analysis
08.08.17	9	SKV	II	Stereochemistry with chiral	Intreronversion of Fischer and Swahorse
				centre	projections
08.08.17		SJ		Class Teaching	
09.08.17	10	SKV	II	Stereochemistry with chiral	Intreronversion Newmann and Sawhorse
				centre	projections
09.08.17	9	PM	IV	Water Soluble Vitamins	Structure of Vitamin -B ₂
10.08.17	9	SKV	III	Rearrangements	Favorskii rearrangements
10.08.17	10	PM	IV	Water Soluble Vitamins	Physiological function of Vitamin -B ₂
11.08.17	10	SKV	III	Rearrangements	Wittig rearrangement
11.08.17	11	PM	IV	Fat Soluble Vitamins	Structure of Vitamin A
12.08.17	11	SKV	III	Rearrangements	Hoffmann rearrangement
12.08.17	5	PKV	I	Diffraction Method	Patterison Function Method
13.08.17	11	PM	II	Cyclosterio Isomerism	Stability of disubstituted cyclohexane
13.08.17	5	SJ	I	UV Visible	Red Shift and Blue Shift
16.08.17		SKV		Class Teaching	
16.08.17	12	PM	IV	Fat Soluble Vitamins	Structure of Vitamin A
17.08.17	12	SKV	III	Rearrangements	Curtius rearrangement

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17.08.17	13	PM	IV	Fat Soluble Vitamins	Structure of Vitamin A
18.08.17	13	SKV	III	Rearrangements	Curtius rearrangement
18.08.17	14	PM	IV	Fat Soluble Vitamins	Structure of Vitamin A
19.08.17	14	SKV	III	Rearrangements	Lossen rearrangement
19.08.17	6	PKV	I	Electron Diffraction	Principle technique Scattering
21.08.17	12	PM	II	Cyclesterio Isomerism	Chirality of disubstituted cyclohexane
21.08.17	6	SJ	I	U.V. Visible Spectroscopy	Wood ward's rule for conjugated cyclic and acyclic diene
22.08.17	13	PM	II	Stereochemistry of Sand P compound	Geometrical isomerism of C=N compound
22.08.17	7	PKV	I	Electron Diffraction	Intensity versus scattering angle curve
23.08.17	14	SKV	II	Stereochemistry with chiral centre	Configurational projections
23.08.17		PM		Class Teaching	
24.08.17	15	SKV	III	Rearrangement	Schmidt rearrangement
24.08.17	15	PM	IV	Fat Soluble Vitamins	Structure of Vitamin A
25.08.17	16	SKV	III	Rearrangements	Beckmann rearrangement
25.08.17	16	PM	IV	Fat Soluble Vitamins	Structure of Vitamin A
26.08.17	17	SKV	III	Rearrangements	Bayer-Villiger oxidation
26.08.17	8	PKV	I	Electron Diffraction	Wierl equation
28.08.17	15	PM	II	Stereochemistry of Sand P Compound	Geometrical isomerism of C=N compound
28.08.17	7	SJ	I	U.V. Visible Spectroscopy	a , b unsaturated carbonyl compound
29.08.17	16	SKV	II	Stereochemistry with chiral centre	R/S and E/Z nomenclature
29.08.17	8	SJ	I	U.V. Visible Spectroscopy	Absorption in aromatic compound
31.08.17		SKV		MONTHLY EVALUATION	
31.08.17	17	PM	IV	Fatsoluble Viatmins	Biological function of Vitamin - A
01.09.17	18	SKV	III	Rearrangements	Wolf rearrangement
01.09.17	18	PM	IV	Fatsoluble Vitamins	Structure of Vitamin- E

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02.09.17	19	SKV	III	Rearrangements	Benzidine rearrangement
02.09.17	9	PKV	I	Electron Diffraction	low energy electron
05.09.17	17	PM	II	Stereochemistry of Sand P	Geometrical isomerism of N=N- compounds
				Compound	
05.09.17	10	PKV	I	Neutron Diffraction	Principle; technique
06.09.17	18	SKV	II	Topcity and Prostereomerism	Introduction
06.09.17	19	PM	IV	Fatsoluble Vitamins	Structure of Vitamin- E
07.09.17	20	SKV	III	Rearrangements	Benzidine rearrangement
07.09.17	20	PM	IV	Fatsoluble Vitamins	Biological function of Vitamin- E
08.09.17	21	SKV	III	Pericyclic Reactions	General characteristics of Conservation of
					Molecular orbital symmetry
08.09.17	CT	PM		Class Teaching	
09.09.17	22	SKV	III	Pericyclic Reactions	Study of electrocyclic reactions by correlation
					method
09.09.17	11	PKV	I	Neutron diffraction	Diffraction with Electron diffraction
11.09.17	19	PM	II	Stereochemistry of S and P	Geometrical isomerism of N=N Compound
				Compound	
11.09.17	9	SJ	I	UV-visible Spectroscopy	Problem related UV- visible Spectroscopy
12.09.17	20	SKV	II	Topocity and	Homotopic and enantiotopic atoms, groups
				Prostereomerism	and faces
12.09.17	10	SJ	I	UV-visible Spectroscopy	Problem related UV- visible Spectroscopy
13.09.17	21	SKV	II	Topocity and	Diastereotopic and enantiotopic atoms, groups
				Prostereomerism	and faces
13.09.17	22	PM	IV	Fat soluble Vitamins	Structure of Vitamin- K
14.09.17	23	SKV	III	Pericyclic Reactions	Study of electrocyclic reactions by correlation method
14.09.17	23	PM	IV	Fat soluble Vitamins	Structure of Vitamin- K
15.09.17	24	SKV	III	Pericyclic Reactions	Study of electrocyclic reactions by FMO method
15.09.17		PM		Class Teaching	
16.09.17	25	SKV	III	Pericyclic Reactions	Study of electrocyclic reactions by FMO method
16.09.17	12	PKV	I	Infrared Spectroscopy	Introduction, Linear harmonic oscillator

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18.09.17	22	PM	II	Stereochemistry of S and P	Stereochemistry of 'S' compound
18.09.17	22	SJ	I	Raman Spectroscopy	Theories of raman effect
19.09.17	23	PM	II	Stereochemistry of S and P	Stereochemistry of 'P' compound
				Compound	
19.09.17	13	PKV	I	Infrared Spectroscopy	Vibrational energy of diatomic Molecules, zero point energy
21.09.17	26	SKV	III	Pericyclic Reactions	Study of electrocyclic reactions by PMO method
21.09.17	24	PM	IV	Fat soluble Vitamins	Psychological function of Vitamin- K
22.09.17	27	SKV	III	Pericyclic Reactions	Study of electrocyclic reactions by PMO method
22.09.17	25	PM	IV	Steriodal hormones	Interoduction of estrogen and Androgens
23.09.17		SKV		MONTHLY EVALUATION	
23.09.17	14	PKV	I	Infrared Spectroscopy	Force constant & bond strength, Anhormonicity
25.09.17	24	PM	II	Asymmetric Synthesis	Stereoselectivity
25.09.17	12	SJ	I	Raman Spectroscopy	Clanical theory
26.09.17	25	SKV	II	Topocity and Prostereomerism	Nomenclature
26.09.17	13	SJ	I	Raman Spectroscopy	Clanical throry
27.09.17	26	SKV	II	Stereochemistry with axial	Principles of axial / planar chirality
				/planar chirality	
27.09.17	26	PM	IV	Steriodal hormones	Structure of estrogens
03.10.17	27	PM	II	Asymmetric Synthesis	Synthesis involving chiral catalysis
03.10.17	15	PKV	I	Infrared Spectroscopy	Morse potential energy diagram
04.10.17	28	SKV	II	Steriochemistry with axial	Principles of axial / planar chirality
				/planar chirality	
04.10.17	27	PM	IV	Steroidal hormones	Synthesis & Relationship of estradiol
06.10.17	28	SKV	III	Pericyclic Reactions	Study of cycloaddition reactions by
					correlation method
06.10.17		PM		Class Teaching	
07.10.17	29	SKV	III	Pericyclic Reactions	Study of cycloaddition reactions by
					correlation method
07.10.17	16	PKV	I	Infrared Spectroscopy	Vibration; rotation spectroscopy P,Q,R branches

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09.10.17	16	PM	II	Asymmetric synthesis	Synthesis involving auxillary chiral reagent
09.10.17	14	SJ	I	Raman Spectroscopy	Selection rule
10.10.17	30	SKV	II	Stereochemistry with axial	Optical isomerism of biphenyl
				/planar chirality	
10.10.17	15	SJ	I	Raman Spectroscopy	Polarization, Polarized and depolarized line
11.10.17	31	SKV	II	Stereochemistry with axial	Optical isomerism of biphenyl
				/planar chirality	
11.10.17	28	PM	IV	Steroidal hormones	Relationship of estradiol
12.10.17	30	SKV	III	Pericyclic Reactions	Study of cycloaddition reactions by FMO method
12.10.17	29	PM	IV	Steroidal hormones	Synthesis of Oestrone
13.10.17		SKV		Class Teaching	
13.10.17	30	PM	IV	Steroidal hormones	Synthesis and relationship of estradiol
14.10.17	31	SKV	III	Pericyclic Reactions	Study of cycloaddition reactions by FMO method
14.10.17	17	PKV	I	Infrared Spectroscopy	Selection rule, overtones, hot bands
16.10.17	32	PM	II	Asymmetric Synthesis	Synthesis involving auxillary chiral reagent
16.10.17	16	SJ	I	Raman Spectroscopy	Mutual exclusion principle, hydrogen bonding
23.10.17	33	PM	II	Asymmetric Synthesis	Quasirecemeate
23.10.17	17	SJ	I	Raman Spectroscopy	Study of simple molecules
24.10.17	34	PM	II	Asymmetric Synthesis	Quasirecemeate
24.10.17	18	PKV	I	Infrared Spectroscopy	Absorption by common functional group
25.10.17	35	SKV	II	Stereochemistry with axial	Optical isomerism of allenes
				/planar chirality	
25.10.17	31	PM	IV	Steroidal hormones	Synthesis of oestrone
26.10.17	32	SKV	III	Pericyclic Reactions	Study of cycloaddition reactions by PMO method
26.10.17		PM		MONTHLY EVALUATION	
27.10.17	33	SKV	III	Pericyclic Reactions	Study of cycloaddition reactions by PMO method
27.10.17	32	PM	IV	Steroidal hormones	Preparation of progesterone
28.10.17	34	SKV	III	Pericyclic Reactions	Study of Diel's- Alder reactions
28.10.17	19	PKV	I	Infrared Spectroscopy	IR instrumentation sampling
30.10.17	36	PM	II	Asymmetric Synthesis	Optical Purity

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30.10.17	18	SJ	I	Raman spectroscopy	Metal ion in Solution
31.10.17	37	SKV	II	Stereochemistry with axial	Optical isomerism of allenes
				/planar chirality	
31.10.17	19	SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
01.11.17	38	SKV	II	Stereochemistry with axial	Optical isomerism of spiranes
				/planar chirality	
01.11.17	33	PM	IV	Steriodal hormones	Physiological function of progesterone
02.11.17	35	SKV	III	Pericyclic Reactions	Study of Diel's -Alder Ractions
02.11.17		PM		Class Teaching	
03.11.17	36	SKV	III	Pericyclic Reactions	Study of Diel's -Alder Ractions
03.11.17	34	PM	IV	Non-Steroidial hormones	Structure of Thyroxin
06.11.17	39	PM	II	Asymmetric Synthesis	Enantiomeric excess
06.11.17	20	SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
07.11.17	40	PM	II	Asymmetric Synthesis	Revision & Problem Solving
07.11.17	20	PKV	I	Infrared spectroscopy	FT - IR Instrument
08.11.17	41	SKV	II	Stereochemistry with axial	Optical isomerism of spiranes
				/planar chirality	
08.11.17	35	PM	IV	Non-Steroidial hormones	Structure of Thyroxin
10.11.17	37	SKV	III	Pericyclic Reactions	Study of [1,3] sigmatropic shift
10.11.17	36	PM	IV	Non-Steroidial hormones	Physiological function of thyroxin
11.11.17		SKV		Class Teaching	
11.11.17	21	PKV	I	Infrared spectroscopy	Problem related IR Spectroscopy
13.11.17	42	PM	II	Asymmetric Synthesis	Revision & Problem Solving
13.11.17	21	SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
14.11.17	43	SKV	II	Stereochemistry with axial	Optical isomerism due to intramolecular
				/planar chirality	overcrowding
14.11.17	22	SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
15.11.17	44	SKV	II	Stereochemistry with axial	Optical isomerism due to intramolecular
				/planar chirality	overcrowding
15.11.17	57	PM	IV	Non-Steroidial hormones	Structure of Adrenalin

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16.11.17	38	SKV	III	Pericyclic Reactions	Study of [1,5] sigmatropic shift
16.11.17	38	PM	IV	Non-Steroidal hormones	Physiological function of Adrenalin
18.11.17	39	SKV	III	Pericyclic Reactions	Claisen rearrangement
18.11.17		PM		<i>Class Teaching</i>	
19.11.17	40	SKV	III	Pericyclic Reactions	Cope rearrangement
19.11.17	22	PKV	I	Infrared spectroscopy	Problem related IR Spectroscopy
20.11.17	45	PM	II	Asymmetric Synthesis	Revision & Problem Solving
20.11.17	23	SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
21.11.17		PKV	I		
22.11.17	47	SKV	II	Stereochemistry with axial	R/S system of nomenclature
				/planar chirality	
22.11.17	39	PM	IV	Steroids	Diel's Hydrocarbon, determination of ring
					System in cholesterol
23.11.17	41	SKV	III	Pericyclic Reactions	Oxy cope and aza cope rearrangement
23.11.17	40	PM	IV	Steroids	Position of Hydroxyl group in cholesterol
24.11.17	42	SKV	III	Pericyclic Reactions	Group transfer reactions
24.11.17	41	PM	IV	Steroids	Angular methyl group in cholesterol
25.11.17	43	SKV	III	Pericyclic Reactions	Group transfer reactions
25.11.17		PKV	I		
27.11.17	24	SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
28.11.17	49	SKV	II	Stereochemistry with axial	R, S system of nomenclature
				/planar chirality	
28.11.17		SJ	I	Raman Spectroscopy	Problem related with raman spectroscopy
29.11.17	50	SKV	II	Stereochemistry with axial	R, S system of nomenclature
				/planar chirality	
29.11.17	42	PM	IV	Steroids	Double bond in cholesterol determination
30.11.17	44	SKV	III	Pericyclic reactions	Chelotropic reactions
30.11.17	43	PM	IV	Steroids	Determination of position of side chain in
					cholesterol
	44	PM	IV	Steroid	Synthesis of cholesterol

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