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Class: M.Sc. III rd Sem.		LESSION PLAN : 2019-20			Subject : Chemistry
DATE	LECTURE	TEACHER'S NAME	PAPER	CHAPTER	TOPIC
16.07.2019	1	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Different type of electronic transition
	1	Mrs. Mrs. Priyanka Mishra	II	Cyclostereoisomerism	Configuration and conformation of monosubstituted cyclohexanes
17.07.2019	2	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Lambert's beer's law
	2	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	General introduction
18.07.2019	3	Pradeep Kumar Verma	I	Diffraction Method	X-ray principle elucidation of crystal structure NaCl by X-ray
	3	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Elements of symmetry
19.07.2019	1	Dr. Shiv Kumar Vernwal	III	Rearrangements	Pinacol- Pinacolone rearrangement
	1	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Water soluble Vitamin
20.07.2019	2	Dr. Shiv Kumar Vernwal	III	Rearrangements	Pinacol- Pinacolone rearrangement
	2	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Water soluble Vitamin
22.07.2019	CT	Dr. Shiv Kumar Vernwal	CT		
	3	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Structure of Vitamin C
23.07.2019	4	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Chromophore and Auxochrome
	4	Mrs. Priyanka Mishra	II	Cyclostereoisomerism	Stability of monosubstituted cyclohexane
24.07.2019	5	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Solvent effect
	5	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Molecules with more than one chiral centre
25.07.2019	6	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Red shift and Blue shift
	6	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Threo and erythro isomer
26.07.2019	3	Dr. Shiv Kumar Vernwal	III	Rearrangements	Wanger-Meerwein rearrangement
	4	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Structure of Vitamin C
27.07.2019	4	Dr. Shiv Kumar Vernwal	III	Rearrangements	Tiffenev- Demjanov rearrangement
	5	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Biological function of Vitamin C
29.07.2019	5	Dr. Shiv Kumar Vernwal	III	Rearrangements	Dienone –Phenol rearrangement
		Mrs. Priyanka Mishra	ME	Monthly Evaluation	
30.07.2019	7	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Woodwards rule for conjugated cyclic and acyclic diene
	7	Mrs. Priyanka Mishra	II	Cyclostereoisomerim	Configuration and conformation of disubstituted cyclohexane
31.07.2019	8	Pradeep Kumar Verma	I	Diffraction Method	Structure factor and phase problem
	8	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Interconversion of Fischer and Newmann projections
01.08.2019	9	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Woodwards rule for conjugated cyclic and acyclic diene
	9	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Inter conversion of Fisher and sawhorse projection
02.08.2019	6	Dr. Shiv Kumar Vernwal	III	Rearrangements	Sommelet – Hauser rearrangement
	6	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Structure of Vitamin B1
03.08.2019	7	Dr. Shiv Kumar Vernwal	III	Rearrangements	Stevens rearrangement

	7	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Structure of Vitamin B1
06.08.2019		Dr. Shiv Kumar Vernwal	CT		
	8	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Structure of Vitamin B2
07.08.2019	10	Sanjay Jaiswal	I	UV-Visible Spectroscopy	Woodwards rule for conjugated cyclic and acyclic diene
	10	Mrs. Priyanka Mishra	II	Cyclostereoisomerism	Stability of disubstituted of cyclohexane
08.08.2019	11	Sanjay Jaiswal	I	UV-Visible Spectroscopy	α , β unsaturated carbonyl compound
	11	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Interconversion of Newmann and Sawhorse projections
09.08.2019	12	Gaurav Tiwari	I	IR Spectroscopy	Introduction , Linear harmonic oscillator
	12	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Interconversion of Newmann and Sawhorse projections
10.08.2019	8	Dr. Shiv Kumar Vernwal	III	Rearrangements	Favorskii rearrangement
	9	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Structure of Vitamin B2
13.08.2019	9	Dr. Shiv Kumar Vernwal	III	Rearrangements	Favorskii rearrangement
	10	Mrs. Priyanka Mishra	IV	Water soluble Vitamin	Physiological function of Vitamin B2
14.08.2019	10	Dr. Shiv Kumar Vernwal	III	Rearrangements	Wittig rearrangement
		Mrs. Priyanka Mishra	CT		
16.08.2019	13	Pradeep Kumar Verma	I	Diffraction Method	Patterson function methods
	13	Mrs. Priyanka Mishra	II	Cyclostereoisomerism	Chirality of disubstituted of cyclohexane
17.08.2019	14	Gaurav Tiwari	I	IR Spectroscopy	Vibrational energy of diatomic molecule
	14	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	Configurational projections
19.08.2019	15	Gaurav Tiwari	I	IR Spectroscopy	Zero point energy
	15	Mrs. Priyanka Mishra	II	Stereochemistry of S and P compound	Geometrical isomerism of C=N compounds
20.08.2019	11	Dr. Shiv Kumar Vernwal	III	Rearrangements	Hoffmaann rearrangement
	11	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin A
21.08.2019	12	Dr. Shiv Kumar Vernwal	III	Rearrangements	Curtius rearrangement
	12	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin A
22.08.2019		Dr. Shiv Kumar Vernwal	CT		
	13	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin A
24.08.2019	16	Pradeep Kumar Verma	I	Diffraction Method	Patterson function methods
	16	Mrs. Priyanka Mishra	II	Stereochemistry of S and P compound	Geometrical isomerism of C=N compounds
26.08.2019	17	Gaurav Tiwari	I	IR Spectroscopy	Force constant and bond strength
	17	Mrs. Priyanka Mishra	II	Stereochemistry of S and P compound	Geometrical isomerism of N=N compounds
27.08.2019	18	Pradeep Kumar Verma	I	Electron Diffraction	Wierl equation
	18	Dr. Shiv Kumar Vernwal	II	Stereochemistry with chiral centre	R/S and E/Z nomenclature
28.08.2019	13	Dr. Shiv Kumar Vernwal	III	Rearrangements	Curtius rearrangement
	14	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin A
29.08.2019	14	Dr. Shiv Kumar Vernwal	III	Rearrangements	Lossen rearrangement
	15	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Physiological function of Vitamin A

30.08.2019	15	Dr. Shiv Kumar Vernwal	III	Rearrangements	Lossen rearrangement
		Mrs. Priyanka Mishra	ME	Monthly Evaluation	
02.09.2019	19	Gaurav Tiwari	I	IR Spectroscopy	Morse potential energy diagram
	19	Mrs. Priyanka Mishra	II	Stereochemistry of S and P compound	Geometrical isomerism of N=N compounds
03.09.2019	20	Pradeep Kumar Verma	I	Electron Diffraction	Low energy electron diffraction
	20	Dr. Shiv Kumar Vernwal	II	Topocity and prostereomerism	Introduction
04.09.2019	21	Gaurav Tiwari	I	IR Spectroscopy	Vibrational rotation spectroscopy
	21	Mrs. Priyanka Mishra	II	Stereochemistry of S and P compound	Stereochemistry of S compound
05.09.2019	16	Dr. Shiv Kumar Vernwal	III	Rearrangements	Schmidt rearrangement
	16	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin E
06.09.2019	17	Dr. Shiv Kumar Vernwal	III	Rearrangements	Beckmann rearrangement
	17	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin E
07.09.2019		Dr. Shiv Kumar Vernwal	CT		
	18	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Biological function of Vitamin E
09.09.2019	22	Gaurav Tiwari	I	I R Spectroscopy	P, Q, R branches
	22	Mrs. Priyanka Mishra	II	Stereochemistry of S and P compound	Stereochemistry of S compound
11.09.2019	23	Pradeep Kumar Verma	I	Electron Diffraction	Low energy electron diffraction
	23	Dr. Shiv Kumar Vernwal	II	Topocity and Prostereomerism	Homotopic and enantiotopic atoms, groups and faces
13.09.2019	24	Gaurav Tiwari	I	IR Spectroscopy	Break down of Born-Oppenheimer approximation
	24	Gaurav Tiwari	II	Asymmetric synthesis	Stereoselectivity
14.09.2019	18	Dr. Shiv Kumar Vernwal	III	Rearrangements	Bayer -Villiger oxidation
	19	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin K
16.09.2019	19	Dr. Shiv Kumar Vernwal	III	Rearrangements	Wolf rearrangement
	20	Mrs. Priyanka Mishra	IV	Fat soluble Vitamin	Structure of Vitamin K
17.09.2019	20	Dr. Shiv Kumar Vernwal	III	Rearrangements	Wolf rearrangement
		Mrs. Priyanka Mishra	CT		
19.09.2019	25	Gaurav Tiwari	I	IR Spectroscopy	Break down of Born-Oppenheimer approximation
	25	Dr. Shiv Kumar Vernwal	II	Topocity and Prostereomerism	Diastereotopic atoms , groups and faces
20.09.2019	26	Gaurav Tiwari	I	IR Spectroscopy	
	26	Dr. Shiv Kumar Vernwal	II	Topocity and Prostereomerism	Nomenclature
21.09.2019	27	Pradeep Kumar Verma	I	Neutron Diffraction	Principle , Technique
	27	Gaurav Tiwari	II	Asymmetric synthesis	Synthesis involving chiral catalysis
23.09.2019	21	Dr. Shiv Kumar Vernwal	III	Rearrangements	Benzidine rearrangement
	21	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Introduction of Estrogen and Androgen
24.09.2019	22	Dr. Shiv Kumar Vernwal	III	Rearrangements	Benzidine rearrangement
	22	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Structure of Estrogen
25.09.2019		Gaurav Tiwari	ME		

	23	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Synthesis and relationship of estradiol
26.09.2019	28	Gaurav Tiwari	I	IR Spectroscopy	Selection rule
	28	Gaurav Tiwari	II	Asymmetric synthesis	Synthesis involving chiral catalysis
27.09.2019	29	Gaurav Tiwari	I	IR Spectroscopy	Overtone , Hot bands
	29	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Principles of axial & planar chirality
30.09.2019	30	Gaurav Tiwari	I	IR Spectroscopy	Absorption by common functional groups
	30	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Principles of axial planar chirality
01.10.2019	23	Gaurav Tiwari	III	Pericyclic Reactions	Study of electrocyclic reactions by correlation method
	24	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Relationship of estradiol
03.10.2019	24	Gaurav Tiwari	III	Pericyclic Reactions	Study of electrocyclic reactions by correlation method
	25	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Synthesis of Oestrone
04.10.2019	25	Gaurav Tiwari	III	Pericyclic Reactions	Study of electrocyclic reactions by FMO method
		Mrs. Priyanka Mishra	CT		
05.10.2019	31	Gaurav Tiwari	I	IR Spectroscopy	Absorption by common functional groups
	31	Gaurav Tiwari	II	Asymmetric synthesis	Synthesis involving auxillary chiral reagents
12.10.2019	32	Pradeep Kumar Verma	I	Neutron Diffraction	Difference with electron diffraction
	32	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism of biphenyl
14.10.2019	33	Gaurav Tiwari	I	IR Spectroscopy	Brief description of IR and F.T.I.R. instruments
	33	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism of biphenyl
15.10.2019	26	Gaurav Tiwari	III	Pericyclic Reactions	Study of electrocyclic reaction by FMO method
	26	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Synthesis of Oestrone
16.10.2019	27	Gaurav Tiwari	III	Pericyclic Reactions	Study of electrocyclic reactions by PMO method
	27	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Synthesis and relationship of estradiol
17.10.2019		Gaurav Tiwari	CT		
	28	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Preparation of Progesteron
18.10.2019	34	Pradeep Kumar Verma	I	Neutron Diffraction	Difference with electron diffraction
	34	Gaurav Tiwari	II	Asymmetric synthesis	Synthesis involving auxially chiral reagent
21.10.2019	35	Gaurav Tiwari	I	Raman Spectroscopy	Theories of Raman Effect
	35	Gaurav Tiwari	II	Asymmetric synthesis	Synthesis involving auxially chiral reagent
22.10.2019	36	Gaurav Tiwari	I	Raman Spectroscopy	Conditions of Raman active vibrations
	36	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism of allenes
23.10.2019	28	Gaurav Tiwari	III	Pericyclic Reactions	Study of cycloaddition reactions by correlation method
	29	Mrs. Priyanka Mishra	IV	Steroidal Hormones	Physiological function of Progesteron
30.10.2019	29	Gaurav Tiwari	III	Pericyclic Reactions	Study of cycloaddition reactions by correlation method
	30	Mrs. Priyanka Mishra	IV	Non Steroidal Hormones	Structure of Thyroxin, Physiological function of Thyroxin
31.10.2019	30	Gaurav Tiwari	III	Pericyclic Reactions	Study of cycloaddition reactions by FMO method

		Mrs. Priyanka Mishra	ME		
01.11.2019	37	Gaurav Tiwari	I	Raman Spectroscopy	Selection rules
	37	Gaurav Tiwari	II	Asymmetric synthesis	Quasirecemeate
04.11.2019	38	Gaurav Tiwari	I	Raman Spectroscopy	Selection rules
	38	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism of allenes
05.11.2019	39	Gaurav Tiwari	I	Raman Spectroscopy	Polarised and Depolarised Raman lines
	39	Gaurav Tiwari	II	Asymmetric synthesis	Quasirecemeate and Optical Purity
06.11.2019	31	Gaurav Tiwari	III	Pericyclic Reactions	Study of cycloaddition reactions by FMO method
	31	Mrs. Priyanka Mishra	IV	Non Steroidal Hormones	Structure of Adrenolin
07.11.2019	32	Gaurav Tiwari	III	Pericyclic Reactions	Study of cycloaddition reactions by PMO method
	32	Mrs. Priyanka Mishra	IV	Steroids	Diel's hydrocarbon determination of ring system in Cholestral
09.11.2019		Gaurav Tiwari	CT		
	33	Mrs. Priyanka Mishra	IV	Steroids	Angulag methyl group in cholestrol
11.11.2019	40	Gaurav Tiwari	I	Raman Spectroscopy	Polarised and Depolarised Raman lines
	40	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism of Spiranes, Enantiomeric excess
13.11.2019	41	Gaurav Tiwari	I	Raman Spectroscopy	Study of simple molecule such as SO ₂ , CO ₂ , Study of simple of N ₂ O and C ₂ H ₂
	41	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism of Spiranes, Enantiomeric excess
14.11.2019	33	Gaurav Tiwari	III	Pericyclic Reactions	Study of cycloaddition reactions by PMO method
	34	Mrs. Priyanka Mishra	IV	Steroids	Double bond in cholesterol
15.11.2019	34	Gaurav Tiwari	III	Pericyclic Reactions	Study of Diel's- Alder reaction
	35	Mrs. Priyanka Mishra	IV	Steroids	Determination of position of side chain in cholesterol
16.11.2019	35	Gaurav Tiwari	III	Pericyclic Reactions	Study of Diel's Alder reaction
	36	Mrs. Priyanka Mishra	IV	Steroids	Synthesis of cholesterol
18.11.2019		Gaurav Tiwari	CT		
	42	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerim of Spiranes
19.11.2019	42	Gaurav Tiwari	I	Raman Spectroscopy	Hydrogen Bonding
	43	Gaurav Tiwari	II	Asymmetric synthesis	Enantiomeric excess
20.11.2019	43	Gaurav Tiwari	I	Raman Spectroscopy	Metals ion in solution
	44	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism due to intramolecular overcrowding
21.11.2019	36	Gaurav Tiwari	III	Pericyclic Reactions	Study of 1,3- sigmatropic shift
	37	Mrs. Priyanka Mishra	IV	Steroids	Chemistry of Cartisone
22.11.2019	37	Gaurav Tiwari	III	Pericyclic Reactions	Study of 1,5 -sigmatropic shift
	38	Mrs. Priyanka Mishra	IV	Steroids	Chemistry of Cartisone
23.11.2019	38	Gaurav Tiwari	III	Pericyclic Reactions	Claisen rearrangement
	39	Mrs. Priyanka Mishra	IV	Steroids	Therapeutic use of Cartisone
25.11.2019	44	Gaurav Tiwari	I	Raman Spectroscopy	Mutual exclusion principle

		Gaurav Tiwari	ME	Monthly Evaluation	
26.11.2019	45	Gaurav Tiwari	I	Raman Spectroscopy	Interpretation of Raman spectra
	45	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism due to intramolecular overcrowding
27.11.2019	46	Gaurav Tiwari	I	Raman Spectroscopy	Problems related with Raman spectra
	46	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	Optical isomerism due to intramolecular overcrowding
28.11.2019	39	Gaurav Tiwari	III	Pericyclic Reactions	Cope rearrangement
	40	Mrs. Priyanka Mishra	IV	Steroids	Therapeutic use of Cartisone
29.11.2019	40	Gaurav Tiwari	III	Pericyclic Reactions	Oxy-cope rearrangement
	41	Mrs. Priyanka Mishra	IV	Steroids	Therapeutic use of Cartisone
30.11.2019	41	Gaurav Tiwari	III	Pericyclic Reactions	Aza-Cope rearrangement
	42	Mrs. Priyanka Mishra	IV	Steroids	Therapeutic use of Cartisone
Extra*	47	Gaurav Tiwari	II	Stereochemistry with axial/ planer chirality	R/S system of nomenclature
*	42	Gaurav Tiwari	III	Pericyclic Reactions	Aza-Cope's rearrangement
*	43	Gaurav Tiwari	III	Pericyclic Reactions	Group transfer reactions