

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

Class : M. Sc. III Semester **LESSON PLAN (Theory) : 2025-26** **Subject : Chemistry**
Course (CHE-513) : Spectroscopy-I
Course (CHE-516) : Stereochemistry
Course (CHE-519) : Pericyclic and Rearrangement Reactions
Course (CHE-522) : Biomolecules

DATE	LECTURE	TEACHER'S NAME	CHAPTER	TOPIC
16/07/2025	1	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of C=N compounds
	1	Dr. R. Sahay	CHE-513 , UV-Visible Spectroscopy	Different type of electronic transitions, Lambert-Beer's law
17/07/2025	2	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	General introduction
	2	Dr. R. Sahay	CHE-513 , UV-Visible Spectroscopy	Chromophores, Auxochromes, Solvent effect, Red shift and blue shift
18/07/2025	3	Mrs. Namrata Mishra	CHE-516 , Topocity and Prostereomerism	Introduction
	1	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Structure of Vitamin C
19/07/2025	1	Dr. S. K. Vernwal	CHE-519 , Carbocation Rearrangements	Wagner- Meerwein rearrangement
	3	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Linear harmonic oscillator
21/07/2025	2	Dr. S. K. Vernwal	CHE-519 , Carbocation Rearrangements	Tiffeneau- Demjanov rearrangement
	2	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Structure of Vitamin C
22/07/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	3	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Structure of Vitamin C
23/07/2025	4	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of C=N compounds
	4	Dr. R. Sahay	CHE-513 , UV-Visible Spectroscopy	Woodward's rule for conjugated cyclic and acyclic dienes and α , β – unsaturated carbonyl compounds
24/07/2025	5	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Elements of symmetry
	5	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Zero point energy
25/07/2025	6	Mrs. Namrata Mishra	CHE-516 , Topocity and Prostereomerism	Introduction
	2	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Structure of Vitamin B1
26/07/2025	3	Dr. S. K. Vernwal	CHE-519 , Carbocation Rearrangements	Sommelet- Hauser rearrangement
	6	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Anharmonicity, Morse potential energy diagram
28/07/2025	4	Dr. S. K. Vernwal	CHE-519 , Carbocation Rearrangements	Sommelet- Hauser rearrangement
	3	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Structure of Vitamin B1
29/07/2025	ME	Dr. S. K. Vernwal	Monthly Evaluation	
	4	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Biological function of Vitamin B1
30/07/2025	7	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of C=N compounds
	7	Dr. R. Sahay	CHE-513 , UV-Visible Spectroscopy	Problems related to UV-Visible Spectroscopy

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

31/07/2025	8	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Molecules with more than one chiral Centre
	8	Dr. R. Sahay	CHE-513 , Diffraction Methods	X-ray Diffraction: Principle, elucidation of crystal structure of NaCl by X-ray Diffraction
01/08/2025	9	Mrs. Namrata Mishra	CHE-516 , Topocity and Prostereomerism	Homotopic and enantiotopic atoms, groups and faces
	5	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Physiological function of Vitamin B2
02/08/2025	5	Dr. S. K. Vernwal	CHE-519 , Carbocation Rearrangements	Favorskii rearrangement
	9	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Absorption by common functional groups
04/08/2025	6	Dr. S. K. Vernwal	CHE-519 , Carbocation Rearrangements	Wittig rearrangement
	6	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Structure of Vitamin B2
05/08/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	7	Mrs. Priyanka Mishra	CHE-522 , Water soluble Vitamins	Physiological function of Vitamin B2
06/08/2025	10	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of C=N compounds
	10	Dr. R. Sahay	CHE-513 , Diffraction Methods	Structure factor, Methods for structure determination by trial and error methods
07/08/2025	11	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Threo and Erythro isomer
	11	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Brief description of IR and FTIR instruments
08/08/2025	12	Mrs. Namrata Mishra	CHE-516 , Topocity and Prostereomerism	Diastereotopic atoms, groups and faces
	8	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Structure of Vitamin A
11/08/2025	7	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Hoffmann rearrangement
	9	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Structure of Vitamin A
12/08/2025	8	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Hoffmann rearrangement
	10	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Structure of Vitamin A
13/08/2025	CT	Mrs. Priyanka Mishra	Class Teaching	
	12	Dr. R. Sahay	CHE-513 , Diffraction Methods	Fourier's method of analysis and Patterson's function method
14/08/2025	13	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Interconversion of Fischer and Newmann projections
	13	Dr. R. Sahay	CHE-513 , Diffraction Methods	Electron diffraction: Principle, technique, scattering intensity versus scattering angle curves
18/08/2025	9	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Curtius rearrangement
	11	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Structure of Vitamin A
19/08/2025	10	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Curtius rearrangement
	12	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Physiological function of Vitamin A

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

20/08/2025	14	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of C=N compounds
	14	Dr. R. Sahay	CHE-513 , Diffraction Methods	Wierl equation, energy electron diffraction (LEED)
21/08/2025	15	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Interconversion of Fisher and Sawhorse projection
	15	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
22/08/2025	CT	Mrs. Namrata Mishra	Class Teaching	
	13	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Physiological function of Vitamin A
23/08/2025	11	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Lossen rearrangement
	16	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
25/08/2025	12	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Lossen rearrangement
	14	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Biological function of Vitamin E
26/08/2025	13	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Schmidt rearrangement
	15	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Biological function of Vitamin E
27/08/2025	16	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of C=N compounds
	17	Dr. R. Sahay	CHE-513 , Diffraction Methods	Wierl equation, energy electron diffraction (LEED)
28/08/2025	17	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Interconversion of Newmann and Sawhorse projections
	18	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: Principle and technique
29/08/2025	ME	Mrs. Namrata Mishra	Monthly Evaluation	
	16	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Structure of Vitamin K
30/08/2025	14	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Beckmann rearrangement
	19	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
01/09/2025	14	Dr. S. K. Vernwal	CHE-519 ,Rearrangements to Electron Deficient N- and O-atoms	Bayer-Villiger oxidation
	17	Mrs. Priyanka Mishra	CHE-522 , Fat soluble Vitamins	Physiological function of Vitamin K
02/09/2025	14	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of electrocyclic reactions by correlation method
	18	Mrs. Priyanka Mishra	CHE-522 ,Steroidal Hormones	Introduction of Estrogen and Androgen
03/09/2025	18	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of N=N compounds
	20	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: difference with electron diffraction
04/09/2025	19	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Interconversion of Newmann and Sawhorse projections

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

	21	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
06/09/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	22	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
08/09/2025	15	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of electrocyclic reactions by correlation method
	19	Mrs. Priyanka Mishra	CHE-522 , Steroidal Hormones	General introduction to estrogens and androgens
09/09/2025	16	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of electrocyclic reactions by correlation method
	20	Mrs. Priyanka Mishra	CHE-522 , Steroidal Hormones	Synthesis and relationship of estradiol
10/09/2025		Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of N=N compounds
	23	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: difference with electron diffraction
11/09/2025	20	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Chiral Centre	Absolute configuration
	24	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: difference with electron diffraction
12/09/2025	21	Mrs. Namrata Mishra	CHE-516 , Topocity and Prostereomerism	Nomenclature and symbols
	21	Mrs. Priyanka Mishra	CHE-522 , Steroidal Hormones	Structure and Synthesis of Oestrone
13/09/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	25	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
15/09/2025	18	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of electrocyclic reactions by FMO method
	22	Mrs. Priyanka Mishra	CHE-522 , Steroidal Hormones	Preparation of Progesteron
16/09/2025	19	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of electrocyclic reactions by FMO method
	23	Mrs. Priyanka Mishra	CHE-522 , Steroidal Hormones	Synthesis of Oestrone
17/09/2025	21	Mrs. Priyanka Mishra	CHE-516 , Stereochemistry of S and P Compounds	Geometrical isomerism of N=N compounds
	26	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: difference with electron diffraction
18/09/2025	22	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Axial/planar Chirality	Principles of axial & planar Chirality
	27	Mrs. Namrata Mishra	CHE-513 , IR Spectroscopy	Problems related to IR Spectroscopy
19/09/2025	23	Mrs. Namrata Mishra	CHE-516 , Cyclostereoisomerism	Configuration and conformation of monosubstituted cyclohexanes
	24	Mrs. Priyanka Mishra	CHE-522 , Steroidal Hormones	Synthesis of Oestrone
20/09/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	28	Mrs. Namrata Mishra	CHE-513 , Raman Spectroscopy	Theories of Raman Effect, Conditions of Raman active vibrations

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

22/09/2025	20	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of electrocyclic reactions by PMO method
	25	Mrs. Priyanka Mishra	CHE-522, Steroidal Hormones	Preparation of Progesterone
23/09/2025	21	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of cycloaddition reactions by correlation method
	26	Mrs. Priyanka Mishra	CHE-522, Steroidal Hormones	Preparation of Progesterone
24/09/2025	24	Mrs. Priyanka Mishra	CHE-516, Stereochemistry of S and P Compounds	Stereochemistry of S compound
	29	Dr. R. Sahay	CHE-513, Diffraction Methods	Neutron diffraction: difference with electron diffraction
25/09/2025	25	Dr. S. K. Vernwal	CHE-516, Stereochemistry with Axial/planar Chirality	Principles of axial & planar Chirality
	30	Dr. R. Sahay	CHE-513, Diffraction Methods	Neutron diffraction: difference with electron diffraction
26/09/2025	26	Mrs. Namrata Mishra	CHE-516, Cyclostereoisomerism	Stability of monosubstituted cyclohexane
	27	Mrs. Priyanka Mishra	CHE-522, Steroidal Hormones	Preparation of Progesterone
27/09/2025	ME	Dr. S. K. Vernwal	Monthly Evaluation	
	31	Mrs. Namrata Mishra	CHE-513, Raman Spectroscopy	Theories of Raman Effect, Conditions of Raman active vibrations
29/09/2025	22	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of cycloaddition reactions by FMO method
	28	Mrs. Priyanka Mishra	CHE-522, Steroidal Hormones	Preparation of Progesterone
30/09/2025	23	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of cycloaddition reactions by PMO method
	29	Mrs. Priyanka Mishra	CHE-522, Steroidal Hormones	Physiological function of Progesterone
03/10/2025	27	Mrs. Namrata Mishra	CHE-516, Cyclostereoisomerism	Configuration and conformation of disubstituted cyclohexane
	30	Mrs. Priyanka Mishra	CHE-522, Non-Steroidal Hormones	Structure and physiological function of Thyroxin
04/10/2025	24	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of cycloaddition reactions by PMO method
	32	Mrs. Namrata Mishra	CHE-513, Raman Spectroscopy	Selection rules, Polarized and depolarized Raman lines
06/10/2025	25	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Electrocyclic & Cycloaddition)	Study of Diel's-Alder reactions
	31	Mrs. Priyanka Mishra	CHE-522, Non-Steroidal Hormones	Structure and physiological function of Adrenelin
07/10/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	32	Mrs. Priyanka Mishra	CHE-522, Steroids	Diel's hydrocarbon determination of ring system in Cholesterol
08/10/2025	28	Mrs. Priyanka Mishra	CHE-516, Stereochemistry of S and P Compounds	Stereochemistry of P compound
	33	Dr. R. Sahay	CHE-513, Diffraction Methods	Neutron diffraction: difference with electron diffraction

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

09/10/2025	29	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Axial/planar Chirality	Optical isomerism of biphenyl
	34	Mrs. Namrata Mishra	CHE-513 , Raman Spectroscopy	Study of: (a) Simple molecules such as SO ₂ , CO ₂ , N ₂ O and C ₂ H ₂
10/10/2025	30	Mrs. Namrata Mishra	CHE-516 , Cyclostereoisomerism	Stability of disubstituted of cyclohexane
	33	Mrs. Priyanka Mishra	CHE-522 , Steroids	Angular methyl group in cholesterol
11/10/2025	26	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Study of 1,3-sigmatropic shift
	35	Mrs. Namrata Mishra	CHE-513 , Raman Spectroscopy	Study of Hydrogen bonding
24/10/2025	ME	Mrs. Namrata Mishra	Monthly Evaluation	
	34	Mrs. Priyanka Mishra	CHE-522 , Steroids	Double bond in cholesterol
25/10/2025	CT	Dr. S. K. Vernwal		
	36	Mrs. Namrata Mishra	CHE-513 , Raman Spectroscopy	Study of: Metal ions in solution, Mutual exclusion Principle , Problems related to Raman Spectra and its interpretation
27/10/2025	27	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Claisen rearrangement
	35	Mrs. Priyanka Mishra	CHE-522 , Steroids	Double bond in cholesterol
29/10/2025	31	Mrs. Priyanka Mishra	CHE-516 , Asymmetric Synthesis	Regioselective, Stereoselective and stereospecific
	37	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: difference with electron diffraction
30/10/2025	32	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Axial/planar Chirality	Optical isomerism of biphenyl
	38	Dr. R. Sahay	CHE-513 , Diffraction Methods	Neutron diffraction: difference with electron diffraction
31/10/2025	33	Mrs. Namrata Mishra	CHE-516 , Cyclostereoisomerism	Chirality of disubstituted of cyclohexane
	36	Mrs. Priyanka Mishra	CHE-522 , Steroids	Determination of position of side chain in cholesterol
01/11/2025	28	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Cope rearrangement
	39	Mrs. Namrata Mishra	CHE-513 , Common Problems	Common problems related to above spectroscopic techniques
03/11/2025	CT	Dr. S. K. Vernwal	Class Teaching	
	37	Mrs. Priyanka Mishra	CHE-522 , Steroids	Determination of position of side chain in cholesterol
04/11/2025	29	Dr. S. K. Vernwal	CHE-519 , Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Oxy-cope rearrangement
	36	Mrs. Priyanka Mishra	CHE-522 , Steroids	Determination of position of side chain in cholesterol
06/11/2025	34	Dr. S. K. Vernwal	CHE-516 , Stereochemistry with Axial/planar Chirality	Optical isomerism of allenes
	40	Mrs. Namrata Mishra	CHE-513 , Common Problems	Common problems related to above spectroscopic techniques
07/11/2025	35	Mrs. Namrata Mishra	CHE-516 , Cyclostereoisomerism	Chirality of disubstituted of cyclohexane
	38	Mrs. Priyanka Mishra	CHE-522 , Steroids	Determination of position of side chain in cholesterol and synthesis of cholesterol

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

08/11/2025	30	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Aza-cope rearrangement
	41	Mrs. Namrata Mishra	CHE-513, Common Problems	Common problems related to above spectroscopic techniques
10/11/2025	31	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Group transfer reactions
	39	Mrs. Priyanka Mishra	CHE-522, Steroids	Determination of position of side chain in cholesterol and synthesis of cholesterol
11/11/2025	ME	Dr. S. K. Vernwal	Monthly Evaluation	
	40	Mrs. Priyanka Mishra	CHE-522, Steroids	Determination of position of side chain in cholesterol and synthesis of cholesterol
12/11/2025	36	Mrs. Priyanka Mishra	CHE-516, Asymmetric Synthesis	Synthesis involving chiral catalysis
	42	Dr. R. Sahay	CHE-513, Diffraction Methods	Neutron diffraction: difference with electron diffraction
13/11/2025	37	Dr. S. K. Vernwal	CHE-516, Stereochemistry with Axial/planar Chirality	Optical isomerism of allenes
	43	Dr. R. Sahay	CHE-513, Diffraction Methods	Neutron diffraction: difference with electron diffraction
14/11/2025	38	Mrs. Namrata Mishra	CHE-516, Cyclostereoisomerism	Chirality of disubstituted of cyclohexane
	41	Mrs. Priyanka Mishra	CHE-522, Steroids	Determination of position of side chain in cholesterol and synthesis of cholesterol
15/11/2025	32	Dr. S. K. Vernwal	CHE-519, Pericyclic Reactions (Sigmatropic & Chelotropic reactions)	Aza-Cope rearrangement
Extra*				
*	44	Mrs. Namrata Mishra	CHE-513, Common Problems	Common problems related to above spectroscopic techniques
*	39	Dr. S. K. Vernwal	CHE-516, Stereochemistry with Axial/planar Chirality	Optical isomerism of Spiranes
*	40	Dr. S. K. Vernwal	CHE-516, Stereochemistry with Axial/planar Chirality	Optical isomerism due to intramolecular overcrowding
*	41	Dr. S. K. Vernwal	CHE-516, Stereochemistry with Axial/planar Chirality	Absolute configuration
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