## NBGSM College Lesson Plan July 2019- Nov 2019

Name of assistant Professor :	Ms. Dik	sha Pahuja	
Class :	B.Sc. (N	on-medical)	
Semester:	I		
Subject:	Inorganic & Organic Chemistry		
	Day	Date	Торіс
1st Week	1	16-Jul-19	Valence bond theory
	2	17-Jul-19	
	3	18-Jul-19	Valence bond theory -limitations
	4	19-Jul-19	
	5	20-Jul-19	Directional characteristics of covalent bond
	Sunday	21-Jul-19	
			Shapes of simple inorganic molecules and ions (BeF2, BF3, CH4, PF5, SF6,
2nd Week	1	22-Jul-19	IF7, SO42 -, ClO4-
	2	23-Jul-19	Continue
	3	24-Jul-19	
	4	25-Jul-19	Revision
	5	26-Jul-19	
			Valence shell electron pair repulsion (VSEPR) theory to NH3, H3O+, SF4, CIF3,
	6	27-Jul-19	ICI2 - and H2O
	Sunday	28-Jul-19	
3rd week	1	29-Jul-19	Continue
	2	30-Jul-19	MO theoryof heteronuclear (CO and NO) diatomic molecules
	3	31-Jul-19	Holiday
	4	01-Aug-19	Continue
	5	02-Aug-19	
	6	03-Aug-19	Presentation
	Sunday	04-Aug-19	
4th week	1	05-Aug-19	Bond strength and bond energy
	2	06-Aug-19	Class test-1
	3	07-Aug-19	
	4	08-Aug-19	Test Discussion
	5	09-Aug-19	
	6	10-Aug-19	Presentation
	Sunday	11-Aug-19	
5th week	1	12-Aug-19	Holiday
	2	13-Aug-19	Percentage ionic character from dipole moment
	3	14-Aug-19	
	4	15-Aug-19	Holiday
	5	16-Aug-19	
	6	17-Aug-19	Percentage ionic character from electronegaivity difference
	Sunday	18-Aug-19	
6th week	1	19-Aug-19	Ionic structures (NaCl,CsCl, ZnS(Zinc Blende), CaF2)
	2	20-Aug-19	Continue
	3	21-Aug-19	
	4	22-Aug-19	Class test -2
	5	23-Aug-19	
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	
7th weak		20 4 10	Test Discussion
7th week	1	26-Aug-19	Test Discussion
	2	27-Aug-19	Radius ratio effect and coordination number
	3	28-Aug-19	
	4	29-Aug-19	Limitation of radius ratio rule
	5	30-Aug-19	
	6	31-Aug-19	Presentation
	Sunday	01-Sep-19	
04h		02.0.10	
8th week	1	02-Sep-19	Lattice defects
	2	03-Sep-19	Semiconductors
	3	04-Sep-19	

	A	05 505 10	lattice energy (methamtical derivation and hude -1)
<u> </u>	4	05-Sep-19 06-Sep-19	lattice energy (methamtical derivation exc luded)
	6	06-Sep-19 07-Sep-19	Presentation
	Sunday	07-Sep-19 08-Sep-19	
	Junuay	00 300 13	
9th week	1	09-Sep-19	Born-Haber cycle
	2	10-Sep-19	Solvation ene rgy
	3	11-Sep-19	
	4	12-Sep-19	Solvation energy and its relation with solubility of ionic solids
	5	13-Sep-19	
	6	14-Sep-19	Polarizing power and Polarisability of ions
	Sunday	15-Sep-19	
10th week	1	16-Sep-19	Fajan's rule
	2	17-Sep-19	Revision
	3	18-Sep-19	
	4	19-Sep-19	Full syllabus test
	5	20-Sep-19	
	6	21-Sep-19	Previous year exam question discussion
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
			Localized and delocalized chemical bond, van der Waals
	2	24-Sep-19	interactions, resonance: conditions
	3	25-Sep-19	
	4	26-Sep-19	Resonance effect& its applications, hyperconjugation, inductive effect
	5	27-Sep-19 28-Sep-19	Electromeric effect & their comparison,Concept & types of isomerism
		28-Sep-19 29-Sep-19	Electrometic effect & their comparison, concept & types of isometism
	Sunday	29-36h-19	
			Properties of enantiomers, chiral and achiral molecules with two stereogenic
12th week	1	30-Sep-19	centres, diastereomers
		50 Sep 15	Optica l isomerism elements of symmetry, molecular chirality,
	2	01-Oct-19	enantiomers, stereogenic centre, optical activity
	3	02-Oct-19	Holiday
			Threo and erythro diastereomers, meso compounds, resolution of
	4	03-Oct-19	enantiomers, inversion, retention and racemization.
	5	04-Oct-19	
			Relative and absolute configuration, sequence rules, R & S systems
			of nomenclature. Geometric isomerism determination of configuration of
	6	05-Oct-19	geometric isomers
	Sunday	06-Oct-19	
			E & Z system of nomenclature, Conformational isomerism conformational
13th week	1	07-Oct-19	analysis of ethane and n-butane
	2	08-Oct-19	Holiday
	3	09-Oct-19	
			Conformations of cyclohexane, axial and equatorialbonds, Newman
	1 1		projection and Sawhorse formulae, Difference between configuration and
	4	10-Oct-19	conformation.
	4 5	10-Oct-19 11-Oct-19	
	5	11-Oct-19	Curved arrow notation, drawing electron movements with arrows, half-
	5	11-Oct-19 12-Oct-19	
	5	11-Oct-19	Curved arrow notation, drawing electron movements with arrows, half-
	5	11-Oct-19 12-Oct-19	Curved arrow notation, drawing electron movements with arrows, half- headed and double-headed arrows,
	5	11-Oct-19 12-Oct-19	Curved arrow notation, drawing electron movements with arrows, half- headed and double-headed arrows, Homolytic and heterolytic bond breaking,Types ofreagents electrophiles and
14th week	5 6 Sunday	11-Oct-19 12-Oct-19 13-Oct-19	Curved arrow notation, drawing electron movements with arrows, half- headed and double-headed arrows, Homolytic and heterolytic bond breaking,Types ofreagents electrophiles and nucleophiles. Types of organic reactions. Energy
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14th week	5 6 Sunday 1 2 3 4 5 5 6	11-Oct-19 12-Oct-19 13-Oct-19 14-Oct-19 15-Oct-19 16-Oct-19 17-Oct-19 18-Oct-19 19-Oct-19	Curved arrow notation, drawing electron movements with arrows, half- headed and double-headed arrows, Homolytic and heterolytic bond breaking,Types ofreagents electrophiles and nucleophiles. Types of organic reactions. Energy considerations.Reactive intermediates Reactive intermediates - carbocations, carbanions, free radicals, carbenes Holiday
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			Methods of formation (with special reference
	3	23-Oct-19	to Wurtz reaction
	4	24-Oct-19	Vacations
	5	25-Oct-19	Vacations
	6	26-Oct-19	Vacations
	Sunday	27-Oct-19	
16th week	1	28 Oct 10	Veetiers
16th week	1 2	28-Oct-19	Vacations
	3	29-Oct-19 30-Oct-19	Vacations Vacations
	5	30-001-19	Kolbe reaction, Corey-House reaction and decarboxylation of carboxylic
	4	31-Oct-19	acids), physical properties.
	5	01-Nov-19	Holiday
		01 100 15	Cycloalkanes nomenclature, synthesis of cycloalkanes and their derivatives
			-photochemical (2+2) cycloaddition reactions, , dehalogenation of $\alpha$ ,w-
	6	02-Nov-19	dihalides
	Sunday	03-Nov-19	
		00 1107 25	
			Pyrolysis of calcium or barium salts of dicarboxylic acids, Baeyer's strain
17th week	1	04-Nov-19	theory and its limitations., theory of strainless rings.
	2	05-Nov-19	Previous year guestion paper discussion
	3	06-Nov-19	A subset of the second se
	4	07-Nov-19	Full Syllabus Test-1
	5	08-Nov-19	
	6	09-Nov-19	Full Syllabus Test-2
	Sunday	10-Nov-19	
18th week	1	11-Nov-19	Extra class
	2	12-Nov-19	Extra class
	3	13-Nov-19	Extra class
	4	14-Nov-19	Extra class
	5	15-Nov-19	Extra class
	6	16-Nov-19	Extra class
	Sunday	17-Nov-19	
Name of assistant Professor :	Sunday Ms. Diksha Pal		
Name of assistant Professor : Class :	Ms. Diksha Pal B.Sc. (Non-me	nuja	
Class : Semester:	Ms. Diksha Pal B.Sc. (Non-me III	nuja dical)	
Class :	Ms. Diksha Pal B.Sc. (Non-me III	nuja	
Class : Semester:	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C	nuja dical) Irganic Chemistry	
Class : Semester: Subject:	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day	nuja dical) Irganic Chemistry Date	Topic
Class : Semester:	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1	nuja dical) Irganic Chemistry <b>Date</b> 16-Jul-19	Topic Practicals
Class : Semester: Subject:	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2	nuja dical) Irganic Chemistry <b>Date</b> 16-Jul-19 17-Jul-19	Topic       Practicals       Werner's coordination theory
Class : Semester: Subject:	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3	nuja dical) Irganic Chemistry <b>Date</b> 16-Jul-19 17-Jul-19 18-Jul-19	Topic Practicals Werner's coordination theory Effective atomic number concept
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Class : Semester: Subject: 1st Week 2nd Week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 3 1 4 5 5 6 3 4 4 5 5 6 3 4 4 5 5 6 3 4 4 5 5 6 3 4 4 5 5 5 6 7 8 1 1 2 3 3 4 4 5 5 8 1 1 1 2 3 3 1 4 5 5 8 1 1 1 2 3 3 1 4 5 5 8 1 1 1 2 3 1 1 1 1 5 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 19-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes
Class : Semester: Subject: 1st Week 2nd Week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 5 6 5 5 6 5 3 4 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 5 6 5	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 19-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 25-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 02-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics
Class : Semester: Subject: 1st Week 2nd Week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 5 6 6 6 5 5 6 6 6 5 5 5 6 6 6 5 5 5 5 6 6 6 5 5 5 6 6 6 5 5 5 6 6 6 5	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 20-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 25-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 02-Aug-19 03-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics
Class : Semester: Subject: 1st Week 2nd Week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 5 6 6 6 5 5 6 6 6 5 5 5 6 6 6 5 5 5 5 6 6 6 5 5 5 6 6 6 5 5 5 6 6 6 5	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 20-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 25-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 02-Aug-19 03-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics
Class : Semester: Subject: 1st Week 2nd Week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 5 6 6 6 5 5 6 6 6 5 5 5 6 6 6 5 5 5 5 6 6 6 5 5 5 6 6 6 5 5 5 6 6 6 5	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 20-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 25-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 02-Aug-19 03-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Pholiday         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Characteristics of solvent
Class : Semester: Subject: 1st Week 2nd Week 3rd week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 6 Sunday 1 2 3 4 5 5 6 Sunday	nuja dical) Drganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 20-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 03-Aug-19 04-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Chelates, nomenclature of coordination compounds         Holiday         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Characteristics of solvent
Class : Semester: Subject: 1st Week 2nd Week 3rd week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 6 Sunday 1 2 3 4 5 6 Sunday 1 2 3 4 5 6 Sunday	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 20-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 22-Jul-19 23-Jul-19 24-Jul-19 25-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 02-Aug-19 03-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Characteristics of solvent         Reactions in non-aqueous solvents with reference to liquid NH3 and liquid SO2
Class : Semester: Subject: 1st Week 2nd Week 3rd week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 6 Sunday 1 2 3 4 5 6 Sunday	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 20-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 23-Jul-19 23-Jul-19 24-Jul-19 26-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 02-Aug-19 03-Aug-19 06-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Holiday         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Characteristics of solvent         Reactions in non-aqueous solvents with reference to         liquid NH3 and liquid SO2         Continue
Class : Semester: Subject: 1st Week 2nd Week 3rd week	Ms. Diksha Pal B.Sc. (Non-me III Inorganic & C Day 1 2 3 4 5 Sunday 1 2 3 4 5 5 Sunday 1 2 3 4 5 5 6 Sunday 1 2 3 4 5 6 Sunday 1 2 3 4 5 6 Sunday	nuja dical) brganic Chemistry Date 16-Jul-19 17-Jul-19 18-Jul-19 19-Jul-19 20-Jul-19 20-Jul-19 21-Jul-19 22-Jul-19 23-Jul-19 24-Jul-19 25-Jul-19 26-Jul-19 26-Jul-19 28-Jul-19 28-Jul-19 30-Jul-19 30-Jul-19 31-Jul-19 01-Aug-19 03-Aug-19 05-Aug-19 06-Aug-19 07-Aug-19	Topic         Practicals         Werner's coordination theory         Effective atomic number concept         Chelates         Nomenclature of coordination compounds         Isomerism in coordination compounds         Practicals         Bond theory of transition metal complexes         Physical properties of a solvent         Types of solvents and their general characteristics         Effective atomic number concept         Chelates, nomenclature of coordination compounds         Isomerism in coordination compounds         Isomerism in coordination compounds         Isomerism in coordination compounds         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Characteristics of solvent         Valence bond theory of transition metal complexes         Physical properties of a solvent, types of solvents and their characteristics         Characteristics of solvent         Reactions in non-aqueous solvents with reference to         liquid NH3 and liquid SO2         Continue         Class test

	Sunday	11-Aug-19	
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5th week	1	12-Aug-19	Holiday
	2	13-Aug-19	Practical Methods of formation by reduction of
	3	14 Aug 10	aldehydes, ketones, carboxylic acids and esters
	4	14-Aug-19 15-Aug-19	Holiday
	5	16-Aug-19	Hydrogen bonding. Acidic nature
	6	17-Aug-19	Presentation
	Sunday	18-Aug-19	
	,	0	
6th week	1	19-Aug-19	Reactions of alcohols. Dihydric alcohols — nomenclature
	2	20-Aug-19	Practicals
	3	21-Aug-19	Oxidative cleavage [Pb(OAc)4 and HIO4
	4	22-Aug-19	Pinacol-pinacolone rearrangement
	5	23-Aug-19	Methods of formation, chemical reactions of vicinal glycols
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	
			Conthesis of energials. Asid and have established size energian of
7th week	1	26 Aug 10	Synthesis of epoxides. Acid and base-catalyzed ring opening of epoxides
7th week	1 2	26-Aug-19 27-Aug-19	Practicals
	3	27-Aug-19 28-Aug-19	Class test
	4	29-Aug-19	Test discussion
	5	30-Aug-19	Orientation of epoxide ring opening
	6	31-Aug-19	Presentation
	Sunday	01-Sep-19	
8th week	1	02-Sep-19	Reactions of Grignard and organolithium reagents with epoxides
	2	03-Sep-19	Practicals
<u></u>	3	04-Sep-19	Nomenclature, structure and bonding
	4	05-Sep-19	Physical properties and acidic character
	5	06-Sep-19	Comparative acidic strengths of alcohols and phenols
	6	07-Sep-19	Presentation
	Sunday	08-Sep-19	
			Resonance stabilization of phenoxide ion. Reactions of phenols electrophilic
9th week	1	09-Sep-19	aromatic substitution
	2	10-Sep-19	Practicals
	3	11-Sep-19	Mechanisms of Fries rearrangement
	4	12-Sep-19	Claisen rearrangement
	5	13-Sep-19	Reimer-Tiemann reaction, Kolbe's reaction
	6	14-Sep-19	Presentation
	Sunday	15-Sep-19	
<u></u>			
10th week	1	16-Sep-19	Schotten and Baumann reactions
	2	17-Sep-19	Practicals
	3	18-Sep-19	Absorption laws (Beer-Lambert law), molar absorptivity
	1		Presentation and analysis of UV spectra, types of electronic
1			
	Λ	10 Son 10	transitions, effect of conjugation. Concept of chromophore and
	4	19-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome.
		•	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and
	4 5 6	20-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts
	5	•	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and
	5 6	20-Sep-19 21-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts
11th week	5 6	20-Sep-19 21-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts
11th week	5 6 Sunday	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts Presentation Holiday Practicals
11th week	5 6 Sunday 1	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts Presentation Holiday Practicals UV spectra of conjugated enes and enones
11th week	5 6 Sunday 1 2 3	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple
11th week	5 6 Sunday 1 2 3 3	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes
11th week	5 6 Sunday 1 2 3 3 4 5	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts Presentation Holiday Practicals UV spectra of conjugated enes and enones Woodward- Fieser rules, calculation of λ max of simple conjugated dienes Class test
11th week	5 6 Sunday 1 2 3 3 4 5 6	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19 28-Sep-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes
11th week	5 6 Sunday 1 2 3 3 4 5	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19	transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts Presentation Holiday Practicals UV spectra of conjugated enes and enones Woodward- Fieser rules, calculation of λ max of simple conjugated dienes Class test
	5 6 Sunday 1 2 3 3 4 5 6 5 6 5 0 8 Sunday	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19 28-Sep-19 29-Sep-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes         Class test         Presentation
11th week 12th week	5 6 Sunday 1 2 3 3 4 5 6 5 6 5 0 6 Sunday	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19 28-Sep-19 29-Sep-19 30-Sep-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes         Class test         Presentation         α,β -unsaturated ketones
	5 6 Sunday 1 2 3 3 4 5 6 5 6 5 unday 1 2	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19 28-Sep-19 29-Sep-19 30-Sep-19 01-Oct-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes         Class test         Presentation         α,β -unsaturated ketones         Practicals
	5 6 Sunday 1 2 3 3 4 5 6 5 6 5 0 6 Sunday	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19 28-Sep-19 29-Sep-19 30-Sep-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes         Class test         Presentation         α,β -unsaturated ketones         Practicals         Holiday
	5 6 Sunday 1 2 3 3 4 5 6 5 6 5 unday 1 2	20-Sep-19 21-Sep-19 22-Sep-19 23-Sep-19 24-Sep-19 25-Sep-19 26-Sep-19 27-Sep-19 28-Sep-19 29-Sep-19 30-Sep-19 01-Oct-19	transitions, effect of conjugation. Concept of chromophore and         auxochrome.         Bathochromic, hypsochromic, hyperchromic and         hypochromic shifts         Presentation         Holiday         Practicals         UV spectra of conjugated enes and enones         Woodward- Fieser rules, calculation of λ max of simple         conjugated dienes         Class test         Presentation         α,β -unsaturated ketones         Practicals

6	05-Oct-19	Presentation
	06-Oct-19	
1	07-Oct-19	Nomenclature of Carboxylic acids
		Holiday
		Structure and bonding
		Physical properties, acidity of carboxylic acids
		Effects of substituents on acid strength, Preparation of carboxylic acid
		Reactions of carboxylic acids
-		
1	14-Oct-19	Hell-Volhard-Zelinsky reaction
		Practicals
		Reduction of carboxylic acids. Mechanism of decarboxylation
		Holiday
		Structure , nomenclature and preparation of acid chlorides
		Structure , nomenclature and preparation of esters
Junday	20 000 15	
1	21-Oct-19	Structure, nomenclature and preparation of amides
		Practicals
		Structure , nomenclature and preparation of acid anhydrides
		Vacations
		Vacations
		Vacations
Sunday	27-001-19	
1	28 Oct 10	Vacations
		Vacations
		Vacations Relative s tability o f acyl derivatives
5	01-100-19	Holiday
c	02 Nov 10	Physical properties, interconvers ion of acid derivatives by
		nucleophilic acyl substitution.
Sunday	03-NOV-19	
	04 Nov 40	Asidia hudrolusis of hudrolusis
		Acidic hydrolysis of hydrolysis
		Practicals
		Basic hydrolysis of hydrolysis
		Class test
		Test discussion
		Previous year exam paper discussion
		Extra class
		Extra class
		Extra class
4		Extra class
5	15-Nov-19	Extra class
6	16-Nov-19	Extra class
6 Sunday	16-Nov-19 17-Nov-19	Extra class
	Sunday           1           2           3           4           5           6           Sunday           1           2           3	Sunday         06-Oct-19           1         07-Oct-19           2         08-Oct-19           3         09-Oct-19           4         10-Oct-19           5         11-Oct-19           6         12-Oct-19           Sunday         13-Oct-19           6         12-Oct-19           2         15-Oct-19           3         16-Oct-19           4         17-Oct-19           5         18-Oct-19           6         19-Oct-19           5         18-Oct-19           6         19-Oct-19           5         18-Oct-19           6         19-Oct-19           5         22-Oct-19           6         19-Oct-19           2         22-Oct-19           3         23-Oct-19           6         26-Oct-19           5         25-Oct-19           6         26-Oct-19           3         30-Oct-19           1         28-Oct-19           2         29-Oct-19           3         30-Oct-19           3         30-Oct-19           5         01-Nov-19 <t< td=""></t<>

Name of assistant Professor :	Ms. Diksha Pahuja
Class :	B.Sc. (Non-Medical)
Semester:	V
Subject:	Organic and Inorganic Chemistry

	Day	Date	Торіс
1st Week	1	16-Jul-19	Principle of nuclear magnetic resonance, The PMR spectrum
	2	17-Jul-19	Number of signals, peak areas
	3	18-Jul-19	Equivalent and nonequivalent protons positions of signals
	4	19-Jul-19	Practical
	5	20-Jul-19	Chemical shift, shielding and deshielding of protons, Proton counting
	Sunday	21-Jul-19	
2nd Week	1	22-Jul-19	Splitting of signals& coupling constants
	2	23-Jul-19	Magnetic equivalence of protons

			Discuss ion of PMR spectra of the molecules: ethyl bromide, neopropyl
			bromide, isopropyl bromide, 1,1-dibromoethane, 1,1,2-
	3	24-Jul-19	tribromoethane
			Ethanol, acetaldehyde, ethyl acetate, toluene,benzaldehyde and
	4	25-Jul-19	acetophenone
	5	26-Jul-19	Practical
			Simple problems on PMR spectroscopy for structure determination of
	6	27-Jul-19	organic compounds.
	Sunday	28-Jul-19	
3rd week	1	29-Jul-19	Classification and nomenclature. Monosaccharides
	2	30-Jul-19	Class test
	3 4	31-Jul-19 01-Aug-19	Holiday Test Discussion
	5	01-Aug-19 02-Aug-19	Practical
	6	03-Aug-19	Mechanism of osazone formation
	Sunday	04-Aug-19	
		017108 25	
1th week	1	05-Aug-19	Interconversion of glucose and fructose
			Chain lengthening and chain shortening of aldoses. Configuration of
	2	06-Aug-19	monosaccharides
	3	07-Aug-19	Erythro and threo diastereomers
	4	08-Aug-19	Interconversion of glucose and fructose
	5	09-Aug-19	Practical
	6	10-Aug-19	Presentation
	Sunday	11-Aug-19	
ith week	1	12-Aug-19	Holiday
	2	13-Aug-19	Chain lengthening and chain shortening of aldoses
	3	14-Aug-19	Configuration of monosaccharides
	4	15-Aug-19	Holiday
	5 6	16-Aug-19	Practical
		17-Aug-19	Presentation
	Sunday	18-Aug-19	
Cab woold	1	10 Aug 10	Erythro and threo diastereomers,Conversion of glucose in to mannose
6th week	1 2	19-Aug-19 20-Aug-19	Formation of glycos ides, ethers and esters.
	2	20-Aug-19	Determination of ring size of glucose and fructose. Open chain and
	3	21-Aug-19	cyclic structure of D(+)-glucose & D(-) fructose
	4	22-Aug-19	Mechanism of mutarotation, Structures of ribose and deoxyribose.
	5	23-Aug-19	Practical
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	
7th week	1	26-Aug-19	An introduc tion to disaccharides (maltose, sucrose and lactose)
	2	27-Aug-19	Open chain and cyclic structure of D(+)-glucose & D(-) fructose
	3	28-Aug-19	Mechanism of mutarotation
	4	29-Aug-19	Structures of ribose and deoxyribose
	5	30-Aug-19	Practical
	6	31-Aug-19	Presentation
	Sunday	01-Sep-19	
		ac	
3th week	1	02-Sep-19	Class test
8th week	2	03-Sep-19	Test discussion
3th week	2 3	03-Sep-19 04-Sep-19	Test discussion An introduc tion to disaccharides
ith week	2 3 4	03-Sep-19 04-Sep-19 05-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose
3th week	2 3 4 5	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical
ith week	2 3 4 5 6	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose
8th week	2 3 4 5	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical
8th week	2 3 4 5 6	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation
	2 3 4 5 6 Sunday	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19 08-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure
	2 3 4 5 6	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure determination
	2 3 4 5 6 Sunday 1	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19 08-Sep-19 09-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure determination         Organomagnesium compounds: the Grignard reagents-formation,
	2 3 4 5 6 Sunday	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19 08-Sep-19 09-Sep-19 10-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure determination         Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions
	2 3 4 5 6 Sunday 1 2	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19 08-Sep-19 09-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure determination         Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions         Continue
8th week 9th week	2 3 4 5 6 Sunday 1 2 3	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19 08-Sep-19 09-Sep-19 10-Sep-19 11-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure determination         Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions
	2 3 4 5 6 Sunday 1 2	03-Sep-19 04-Sep-19 05-Sep-19 06-Sep-19 07-Sep-19 08-Sep-19 09-Sep-19 10-Sep-19	Test discussion         An introduc tion to disaccharides         Maltose, sucrose and lactose         Practical         Presentation         Polysaccharides (starch and cellulose) without involving structure determination         Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions         Continue         Organozinc compounds: formation and chemical reactions.

	Sunday	15-Sep-19	
10th week	1	16-Sep-19	Class test
	2	17-Sep-19	Test discussion
	3	18-Sep-19	Assignment doubts
	4	19-Sep-19	Revision
	5	20-Sep-19	Practical
	6	21-Sep-19	Presentation
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
11th week	2	23-Sep-19 24-Sep-19	Essential and trace elements in biological processes
		21 369 13	Metalloporphyrins with special reference to haemoglobin and
	3	25-Sep-19	myoglobin.
		· · · · · · · · · · · · · · · · · · ·	Biological role of alkali and alkaline earth metal ions
	4	26-Sep-19	with special reference to Ca2+
	5	27-Sep-19	Practical
	6	28-Sep-19	Nitrogen fixation
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	Revision
	2	01-Oct-19	Class test
	3	02-Oct-19	Holiday Test discussion
	5	03-Oct-19 04-Oct-19	Practical
	6	05-Oct-19	Presentation
	Sunday	06-Oct-19	
	Junuary		
13th week	1	07-Oct-19	Silicones
	2	08-Oct-19	Holiday
	3	09-Oct-19	Continue
	4	10-Oct-19	Phosphazenes
	5	11-Oct-19	Practical
	6	12-Oct-19	Presentation
	Sunday	13-Oct-19	
4 444	1	14.0+10	
14th week	1 2	14-Oct-19 15-Oct-19	Their preparation Doubt Class
	3	16-Oct-19	Previous year question paper discussion
	4	17-Oct-19	Holiday
	5	18-Oct-19	Practical
	6	19-Oct-19	Presentation
	Sunday	20-Oct-19	
15th week	1	21-Oct-19	Properties
	2	22-Oct-19	Structure of silicones
	3	23-Oct-19	Class test
	4	24-Oct-19	Vacations
	5	25-Oct-19 26-Oct-19	Vacations Vacations
	5 Sunday	26-0ct-19 27-0ct-19	
	Junuay	27 000-13	
16th week	1	28-Oct-19	Vacations
	2	29-Oct-19	Vacations
	3	30-Oct-19	Vacations
	4	31-Oct-19	Test discussion
	5	01-Nov-19	Holiday
	6	02-Nov-19	Revision
	Sunday	03-Nov-19	
17th week	1	04-Nov-19	Full syllabus test
	2	05-Nov-19	Test Discussion
	3	06-Nov-19	Previous year question paper discussion
	5	07-Nov-19 08-Nov-19	Previous year question paper discussion Practical
	6	09-Nov-19	Revision
	Sunday	10-Nov-19	
		_,, 15	
18th week	1	11-Nov-19	Extra Class
18th week	1 2	11-Nov-19 12-Nov-19	Extra Class Extra Class

4	14-Nov-19	Extra Class
5	15-Nov-19	Extra Class
6	16-Nov-19	Extra Class
Sunday	17-Nov-19	