Sample Format (Lesson Plan)

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester) Session – (2022-23)

Name of the Teacher/s: 1.Dr. Shefali Dhiman

2.Dr. Rishu

Department: P.G. Department of Chemistry

Class: M.Sc. 2 3rd Semester Subject Applications of Spectroscopy CH-511

Teacher	Da	ate	Topics to be Covered	Academic
	(Mor	nthly)		Activity
	From	To		Undertaken*
1.	23-08-2022	15-09-2022	Electron Spin Resonance Spectroscopy: Hyperfine coupling, spin polarization for atoms and transition metal ions, spin orbit coupling and significance of g-tensors, application of transition metal complexes (having one unpaired electron) including biological systems and to inorganic free radicals such as PH ₄ , F ₂ and [BH ₃].	Lecture Method, PPT) Case Studies and Online Sources
2.	16-09-2022	30-09-2022	Ultraviolet and Visible Spectroscopy: Various electronic transitions (185-800nm), Beer-Lambert law, effect of solvent on electronic transition, ultraviolet bands for carbonyl compounds, unsaturated carbonyl compounds, dienes, conjugated polyenes. Fieser-Woodwared rules for conjugated dienes and carbonyl, ultraviolet spectra of aromatic and heterocyclic compounds. Steric effect in biphenyles.	Lecture Method, PPT and Group Discussion
1.	23-08-2022	15-09-2022	Nuclear Magnetic Resonence of Paramagnetic: Substances in Solution The contact and psedo contact shifts, factors affecting nuclear relaxation Some applications including biochemical systems, an overview of NMR of metal nuclides with emphasis on 195 Pt and 119 Sn NMR.	Lecture Method, PPT and Online Sources

Departme	16-09-2022	30-09-2022 oordinate and Rev	Infrared Spectroscopy Instrumentation and sample handling Characteristics vibrational frequencies of alkanes, alkenes, alkynes, aromat compounds, alcohols, ethetrs fhenous and amines and amines and study of vibrational frequencies of carbony compounds (ketones, aldehydes, esteramids acids, anhydrides, lactone lactans and conjugated carbony compounds). Effect of hydrogody bonding of solvent effect of vibrational frequencies, overtone combination bands and Ferromesonance. FT-IR of gaseous, solid and polymeric materials. Nuclean Magnetic Resonance Spectroscopy. General introduction and definition chemical shift, spin spin interactions shielding mechanism of measurement chemical shift values and correlation for protons bonded to carbony (aliphatic, olefinic, aldehydic arromatic) anothernuclei (alcoholiphenols, enols, carboxlicacids, amine amides & mercapto), chemic exchange. iew the Monthly completion of Syllabora.	and Group Discussion and Group Discussion
2	1-10-2022	4-11-2022		Lecture Method, , PPT Case Studies and Online Sources) Lecture Method, PPT and Group Discussion

			effect (NOE) resonance of other nuclei –F,P	
Departm	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Syll	abus as per lesson plans
1	1-10-2022	19-10-2022	Vibrational Spectroscopy: Symmetrey and shapes of AB ₂ , AB ₃ , AB ₄ , AB ₅ and AB ₆ mode of bonding of ambidentate ligands. Ethylenediamine and diketonato complexes, applications of resonance	Lecture Method and On Sources
2	20-10-2022	15-11-2022	Carbon-13 NMR spectroscopy: General considration chemical shift (aliphatic olefinic alkyne aromatic eteroaromatic and carbonyl carbon)coupling constants. Two dimension NMRspect- roscopy —COSY, NOESY, DEPT, APT and INADEQUATE technique.	Lecture Method, PPT a Group Discussion
Departm	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Syll	abus as per lesson plans
1	05-11-2022	12.11.2022	Raman spectroscopy particularly for the study of active sites of metalloproteins.	Lecture Method and On Sources
2	14-11-2022	Till exams	NMR spectroscopy –COSY, NOESY, DEPT, APT and INADEQUATE technique. Mass Spectrometry: Introduction, ion production – EI,CI, FD and FAB, factors affecting fragmentation, ion analysis, ion abundance. Mass septracl fragmentation of organic compounds, common functional group, molecular ion peak, metastabl peak, Mclafferty rearrangement. nitrogen rule, high resolution mass spectrometery. Example of mass spectral fragmentation of organic compounds with respect to their structure determination.	Lecture Method, PPT a Group Discussion
Departme	ental Meeting to Co	oordinate and Rev	iew the Monthly completion of Syll	abus as per lesson plans
	The teachers h	nave completed	the scheduled chapters and topic plan	cs as shown in the less
Departme	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Syll	abus as per lesson plans

	The teachers have completed the scheduled chapters and topics as shown in the lesson plan				
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^{*}Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.

Other Methods adopted by the teacher – Please write the specific teaching method

Lesson Plan

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester) Session – (2022-23)

Name of the Teachers: Dr. Madhuri Tanaji Patil

Department: P.G. Department of Chemistry

Class: M.Sc II Subject: Heterocyclic Chemistry (CH-513)

	ate nthly)	Topics to be Covered	Academic
From	To	-	Activity
From	10		Undertaken*
23-08-2022	15-09-2022	UNIT 1: Nomenclature of Heterocycles Replacement and systematic nomenclature (Hantzsch-widman System) for monocyclic fused and bridged hetrocycles Aromatic Heterocycles. General chemical behavior of aromatic heterocycles classification (structural type) criteria of aromaticity(bond length ring current and chemical shift in H NMR- Spectra empirical resonance energy delocalization energy and Dewar resonance energy Diamagnetic susceptibility exaltations) Non- aromatic Heterocycles. Strainbond angle and torsional strains and their consequences in small ring heterocycles.	Lecture Method & Group Discussion about Introduction to relevant reference books And marking system in final paper
16-09-2022	10-10-2022	UNIT 1: Nomenclature of Heterocycles Conformation of six-membered heterocycles with reference to molecular Geometry, barrier to ring inversion, pyramidal inversion and 1,3-diaxial interaction. Stereo-electronic effects-anomeric and related effects Attractive interactions-hydrogen bonding and intermolecular nucleophilicelectrophilic interactions.	Lecture Method & Case Studies. For Practice of nomenclature
11-10-2022	22-10-2022	. UNIT 2: Heterocyclic synthesis Principles of heterocyclic synthesis involving cyclization reactions and cycloaddition Reactions. Three- membered and four-membered heterocycles-synthesis and reactions of aziridines, oxiranes, thiiranes, azetidines, oxetanes and thietanes. Synthesis and reaction including medicinal applications of benzopyrroles, benzofurans and benzothiophenes	Lecture Method & Group Discussion for paper solving by giving Assignment
27-10-2022	04-11-2022	UNIT 3: Meso-ionic Heterocycles General classification chemistry of some important meso-ionic heterocycles of type-A and B and their applications. Six-Membered Heterocycles With One Heteroatom Synthesis and reactions of pyrylium salt and pyrones and their comparison with Pyridinium & thiopyrylium salt and Pyridones synthesis and reactions of Quinolizinium and benzopyrylium salt coumarins and chromones Six-Membered	Lecture Method & group Discussion. Revision and question papers discussion

		Heterocycles with Two or More Hetroatoms: Synthesis and			
		reactions of diazines, triazines, tetrazines and thiazines			
		Tourisms of Grazines, transmes, terrazines and timezines			
05-11-2022	15-11-2022	Unit 4: 1,2-Azoles: pyrazoles, isothiazoles and isoxazoles			
03-11-2022	13-11-2022	Introduction to 1,2-azoles, synthesis of 1,2-azoles. Addition on			
		nitrogen: protonation, N-alkylation, N-acylation. Reaction with			
		electrophilic and nucleophilic reagents. Reaction with bases:			
		reaction of N-metallated pyrazole, reaction of C-metallated			
1 1 1 1 2 2 2 2		1,2-azoles. Reaction with oxidizing and reducing agents			
16-11-2022	Till exams	Unit 4: 1,3-Azoles: imidazoles, thiazoles and oxazoles Introduction to 1,3-azoles, synthesis of 1,3-azoles. Addition at			
		nitrogen: protonation, N-alkylation, N-acylation. Reaction with			
		electrophilic and nucleophilic reagents. Reaction with bases:			
		reaction of N-metallated imidazole, reaction of C-metallated			
		1,3-azoles.Reaction with oxidizing and reducing			
		agents. Synthesis and reaction of quaternary 1,3-azolium salt			
		and 1,3-azole-N-oxide.			
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LESSON PLAN

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester) Session – (2022-23)

Name of the Teacher/s: Dr. Aanchal Batra (AB)

Department: Post Graduate Department of Chemistry

Class: MSc II (Sem.III), Subject: Organotransition Metal Chemistry, Section (s): July-Dec.

2020

S.No.		ate nthly)	Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	23-08-2022	15-09-2022	Fluxional Organometallic	Lecture Method and Online Sources
			Compounds(AB) Fluxionality and dynamic equilibria in compounds	
			such as η2 olefin, η 2 Allyl and dienyl	
			Complexes	
			Compounds of	Lecture Method, Online
			Transition Metal	Sources and Group
			Carbon multiple	discussions
			Bonds(DJ)	
			Alkylidenes, alkylidynes,	
			low valent Carbenes and	
			carbynes-Synthesis,	
			nature of bond, Structural Characteristics,	
			nucleophilic and	
			Electrophilic reaction on	
			the ligands, role in	
			organic synthesis	
2	16-09-2022	10-10-2022	Alkyls and Aryls of	Lecture Method, Group
			Transition Metals(AB)	discussions and
			Types, routes of synthesis,	assignments
			Stability and	-
			decomposition Pathways,	
			organocopper in Organic	
			Synthesis	
			Transition Metal	Lecture Method, Class
			Compounds with Bonds	seminars, Unit test
			to Hydrogen(DJ)	

			I m	
			Transition metal	
			Compounds with bonds to	
			hydrogen	
3	11-10-2022	22-10-2022	Homogeneous	Lecture Method and
			Catalysis(AB)	Diagrammatic
			• ` ´	Representations
			Stoichiometric reaction	F
			for catalysis,	
			homogeneous catalytic	
4	27.10.2022	04.11.2022	hydrogenation,	7 . 36 .1 .1 .1
4.	27-10-2022	04-11-2022	Transition Metal	Lecture Method and
			Complexes of alkenes,	Diagrammatic
			alkynes, allyls(DJ)	Representations
			Transition Metal	
			Complexes with	
			unsaturated Organic	
			molecules, alkenes,	
			alkynes, Allyl, diene,	
			dienyl, arene and trienyl	
			complexes, preparations,	
			properties, nature of	
			bonding and structural	
			features	
			importantreactions	
			relating to nucleophilic	
			and electrophilic attack on	
			ligands and to organic	
			synthesis	
4	20-10-2022	04-11-2022	Homogeneous Catalysis	Lecture Method, Class
,	20 10 2022	01112022	(cont.) (AB)	seminars, Unit test
			Zeigler-Natta	semmars, our test
			_	
			polymerization of olefins,	
			catalytic reations	
			involving carbon	
			monoxide such as	
			hydrocarbonylation of	
			olefins (oxo reaction)	
			oxopalladation reactions,	
			activation of C-H bond	
5	05-11-2022	Till exams	Transition Metal	Lecture Method, Class
			Complexes of dienyls,	seminars, Unit test
			arenes & trienyls(DJ)	sommars, om test
			• • •	
			Preparations, properties,	
			nature of bonding and	
			structural features	
			importantreactions	
			relating to nucleophilic	
			and electrophilic attack on	
			ligands and to organic	
			synthesis	
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Departmenta	l Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans
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Other Methods adopted by the teacher – Please write the specific teaching method

LESSON PLAN

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2022-23)

Name of the Teacher/s: Dr. Aanchal Batra (AB)

Department: Post Graduate Department of Chemistry

Class: MSc II (Sem.IV) Subject: Biophysical Chemistry Section (s): Jan-April 2023

S.No.		ate nthly)	Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	16-01-2023	28-01-2023	Biological Cell and its Constituents (AB) Biological cell, DNA and RNA in living systems. Basic consideration. Proximity effects and molecular adaptation	Lecture Method and Online Sources
			Bioenergetics and ATP cycle (DJ) Standard free energy change in biochemical reaction, exergonic, endergonic reactions. Hydrolysis of ATP, sythesis of ATP from ADP, metal complexes and transition of energy, chlorophyls, photo system I and photo system II in cleavage of water	Lecture Method, PPT, Assignments, Unit test
2	30-01-2023	27-02-2023	Enzymes, Mechanism of Enzyme Action(AB) Introduction and historical perspective, chemical and biological catalysis, Remarkable properties of enzymes like catalytic power, specificity and regulation. Nomenclature and classification,	Lecture Method, Group discussions and assignments

extraction and purification. Fischer's lock and key and Koshland's induced fit hypothesis, concept and identification of active site by the use of inhibitors, affinity labeling and enzyme modification by site-directed mutagenesis. Enzyme kinetics, Michaelis-Menten and Lineweaver-Burk plots, reversible and irreversible inhibition. Thermodynamics of biopolymer solutions, Cell membranes and transport of ions(DJ) Thermodynamics of biopolymes solutions, osmotic pressure, membrane equilibrium, muscular contraction and engery generations in mechanochemical system. Structure and function of cell membrane, ion transport through cell membrane, Na+ K+ Pump, Irreversible treatment of membrane transport. Nerve conduction. 3 28-02-2023 30-03-2023 Kinds of reactions Chemistry(AB) Nucleophilic displacement on a phosphorus atom, multiple displacement reactions and the coupling of ATP cleavage to endergonic processes. Transfer of sulphate, addition and elimination reaction, enolic intermediates in					
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isomerization reactions, β -
cleavage and
condensation, some
isomerization and
rearrangement reactions.
Enzyme catalyzed
carboxylation and
decarboxylation
Cofactors as derived from
vitamins, coenzymes,
prosthetic groups,
apoenzymes. Structure and
biological function of
coenzyme A, thiamine
pyrophosphate, Pyridoxal
phosphate,
NAD+,NADP+,FMN,
FAD, lipoic acid, vitamin
B12. Mechanism of
reaction catalyzed by the
above cofactors

			Biological macromolecules, interactions & structural transitions(DJ) Nucleotide, torsion angles in poly nucleotide chains, the helical structure of polynucleic acids, high order structure in polynucleotides. Basic principles of interaction between molecules, water structure and its interaction with biomolecules, dipole interactions, side chain interactions, electrostatic interactions, base pairing in nucleic acids, base stacking, hydration and the hydrophobic effect. Coil — helix transitions in proteins, statistical methods for predicting protein secondary structures; melting and annealing of polynucleotide duplexes, helical transitions in double stranded DNA, super coil dependent DNA transitions predicting helical structures in genomic DNA.	Lecture Method, PPT, Assignments, Unit test
4	31-03-2023	Till exams	Biological Macromolecules, Proteins(AB) Basic features of macromolecules, their configurations and conformations. Amino acids, the unique protein sequence, secondary structures of proteins, helical symmetry, effect peptide bond on protein conformations, the structure of globular proteins.	Lecture Method Diagrammatic Representations, Referred many books

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		Separation	& Lecture Method, PPT,
		Characterization	of Class seminars by
		biological	students
		macromolecules(DJ)	
		Sedimentation, movi	ng
		boundary sedimentation	on,
		zonal sedimentation	on,
		general principles	of
		electrophoresis,	
		electrophorsesis	of
		proteins and nucleic acid	ds,
		capillary electrophoresis	
Departmental	Meeting to Coordinate and Rev	riew the Monthly completion of	of Syllabus as per lesson plans
T	he teachers have completed	the scheduled chapters and	I topics as shown in the lesson
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T	he teachers have completed	the scheduled chapters and	l topics as shown in the lesson
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^{*}Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.

Other Methods adopted by the teacher – Please write the specific teaching method

Sample Format (Lesson Plan)

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2022-23)

Name of the Teacher/s: <u>Dr. Swatika Sharma</u>

Department <u>Chemistry</u>

Class_M.Sc. II: Subject Natural Products

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
01	16-01-2023	24-01-2023	Unit 1: Terpenoids and Carotenoids	Lecture method, Online sources
			Classification, nomenclature occurrence isolation general methods of structure determination, isoprene rule. Structure determination stereochemistry, Biosynthesis and synthesis of: citral, Terpeneol, Farnesol, santonin, phytol, Abietic Acid and Beta- Carotene.	
2	25-01-2023	20-02-2023	Unit-II: Alkaloids: Definition, nomenclature and physiological action occurrence isolation general method of structure elucidation degradation classification based on nitrogen heterocyclic ring role of alkaloids in plants.	Lecture method

			Structure stereochemistry, synthesis and biosynthesis of: Ephedrin,Conine, Nicotine, Atropine, Quinine and Morphine.	
3	21-02-2023	27-03-2023	Unit-III: Steroids Occurrence nomenclature basic skeleton. Diel's hydrocarbon and Stereochemistry, isolation, structure determination and synthesis of: Cholesterol, Bile acids, Androsterone, Testosterone, Estrone, Progestrone, Aldosterone, Biosynthesis of steroids.	Lecture Method, Online Sources
4	28-03-2023	Till exams	Unit-IV: Plant pigments Occurrence nomenclature and general methods of structure determinations, isolation and synthesis of: Quercetin, Quercetin- 3-Glucoside, Vitexin, Diadzein, Cyanidin-7- arabinoside, cyanidine, Hirsutidin. Biosynthesis of Flavonoids: Acetate pathway and shikimic acid pathway. Porphyrins: structure and synthesis of haemoglobin and chlorophyll Prostaglandins: Occurence, nomenclature biogenesis and synthesis of: PGE2 and PGF2 Synthesis and reaction of Pyretheroids and	Lecture Method

			Rotenones.			
Departme	ntal Meeting to	Coordinate an	d Review the Monthly comp	letion of Syllabus as per		
			lesson plans			
	The teachers l	nave completed	the scheduled chapters and top	pics as shown in the lesson		
			plan			
Departme	ntal Meeting to		d Review the Monthly comp	letion of Syllabus as per		
			lesson plans			
	The teachers have completed the scheduled chapters and topics as shown in the lesson					
	plan					
Departme	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per					
			lesson plans			
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^{*}Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.
Other Methods adopted by the teacher – Please write the specific teaching method

Lesson Plan

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2022-23)

Name of the Teachers: 1. Dr. Qudrat Hundal

2. Dr. Madhuri Tanaji Patil

Department: P.G. Department of Chemistry

Class: M.Sc II Subject: Organic Synthesis I (CH-522)

Teac	Teac Date		Topics to be Covered	Academic Activity
her	(Mon	thly)		Undertaken*
	From	To		
1	16-01- 2023	24-01- 2023	Unit I: Organometallic Reagents Principle, Preparations, of the Organolithium and organomagnesium compounds in organic synthesis with mechanistic details Unit II Organic Synthesis: Introduction to Retrosynthesis, Electrophilic substitution reactions, Discussion of possible retrosynthesis routes of a target molecule and their comparison, Latent polarity, Linear and Convergent	Lecture method PPT Group Discussion
2	16-01- 2023	24-01- 2023	synthesis, Umpolung and synthesis of cyclic molecules. Unit I: properties and applications Organolithium and organomagnesium compounds: Hg, Zn and Ce Compounds Transition metals: Cu,Pd,Ni, Fe, Co, Rh, Cr and Ti Compounds Unit II Organic Synthesis: Functional Group Interconversions (FGIs), Retrosynthesis: Strategy and Planning, Practice examples elucidating all principles, Chemoselectivity, Protecting groups laying more emphasis on protection of carbonyl groups, alcohols and amines. Protection of just one of two identical groups. How to avoid the use of	Lecture method Group Discussion

			protecting groups and its advantages and disadvantages. Regioselectivity, Methods for the preparation of alkenes, regioselective additions to alkenes, ketones, nucleophilic addition to α,β -unsaturated carbonyl compounds, nucleophilic addition to epoxides, Oxidation of ketones to esters and Practice examples	
3	25-01- 2023	16-02- 2023	*	Lecture method Group Discussion Assignment given Lecture method Presentation using OHP Presentation by students
4	25-01- 2023	16-02- 2023	Unit IV: Reduction Introduction Different reductive processes Hydrocarbons-alkanes, alkenes, alkynes and aromatic rings carbonyl compounds- aldehydes, ketones, acids and their derivatives	Lecture method Group Discussion
5	17-02- 2023	22-03- 2023	Unit III: Reduction epoxides. nitro, nitroso, azo and oxime groups. Hydrogenolysis	Lecture method Presentation using OHP Presentation by students Assignment given Lecture method Assignment given Question papers discussed.

6	17-02-	22-03-	. Unit III Oxidation: Oxidation of	Lecture method, PPT,
	2023	2023	Carboxylic acids, amines, hydrazines and	<u> </u>
	2028	2020	sulphides. Oxidation with Ruthenium	
			Tetroxide, Thallium nitrate and	Tto vision
			iodobenzene diacetate.	
7	24-03-	Till	Unit IV Rearrangements: Introduction,	Lecture method
	2023	exams	migratory aptitude, memory effects,	Group Discussion
			Pinacol-pinacolone rearrangement,	1
			Wagner Meerwein, Demjanov, Wolff,	
			Beckmann, Hoffmann, Curtius, Schmidt,	
			Baeyer-villiger, Neber, Shapiro,	
			Favorskii and benzilic rearrangements	
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^{*}Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.

Other Methods adopted by the teacher – Please write the specific teaching method

Sample Format (Lesson Plan)

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2022-23)

Name of the Teacher/s: 1.Dr. Yesbinder

2. Dr. Manjot

Departmen: Chemistry

Class_M.Sc. II Subject: Photochemistry & Solid State Chemistry

Section (s)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	16-01-2023	27-01-2023	Unit 3: Solid state Chemistry	Lecture method, Online sources
			Solid state reactions: general principles, experimental procedures, co-precipitation as a precursor to solid state reactions, kinetics of solid state reactions. Organic Solids:	
			Electrically conducting solids, organic charge transfer complexes, organic metals, new superconsuctors.	
2	28-01-2023	23-02-2023	Crystal defects and non- stochiometry: Perfect and imperfect crystals, intrinsic and extrinsic defects-point defects, line defects, vacancies- Schottky defects and Frenkel defects, Thermodynamics of	Lecture method

			Schottky defects and Frenkel defect formation, Colour Centres, non- stochiometry and defects.	
3	24-02-2023	22-03-2023	Unit 4 Electronic properties and Band Theory Metals, insulators and semiconductors, electronic structure of solids-band theory of metals, insulators and semiconductors, intrinsic and extrinsic semimiconductors, doping semiconductors, p-n junctions, superconductors.	Lecture Method, Online Sources
4	24-03-2023	19-04-2023	Optical properties- Optical reflectance, photoconduction- photoelectric effects. Magnetic properties- Classification of materials: Quantum theory of paramagnetics- cooperative phenomena- magnetic domains, hysteresis.	Lecture Method
Departme	ntal Meeting to		l Review the Monthly complesson plans	letion of Syllabus as per
	The teachers l	nave completed t	the scheduled chapters and top plan	pics as shown in the lesson
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plan

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Other Methods adopted by the teacher – Please write the specific teaching method