ACA/DI/37	Teaching Plan (A. Y. 2025-26)	Academic Year: 2025- 26
Rev: 00	Subject : CHEMISTRY	Subject code : 55
Date: 07/05/2025		Class : XII Science



Pimpri Chinchwad Education Trust's

S.B. PATIL COLLEGE OF SCIENCE & COMMERCE, RAVET

Sr. no. 110, Gate No 1, Ravet, Pune- 412101

www.sbpatilcollege.com, email-sbpc.science@gmail.com

"UDISE NO: 27252001412 College Index No: J.11.16.066

9	P P	THE C	OL	e.
•	=	Y		4
-	Pier	sale of S	home	

Sr.	Ch.No	Name Of The	Sub-topic Sub-topic	Planned date of	Teaching	Remarks
No.		Topic		commencing	Aid	
	1 3		Types of electrolytes	2/5/2025		
			Arrhenius theory of acids and bases	5/5/2025		
			Ionisation of acids and bases : Ostwald's dilution law	6/5/2025	5/5/2025	
1		Ionic Equilibria	Autonization of water & pH scale	7/5/2025		
			Hydrolysis of salts ; Buffer solutions	8/5/2025		
			Solubility Product	9/5/2025		
			Common Ion Effect ; Numericals	10/5/2025		
			Types of solutions	2/6/2025		
			Effect of solubility on diff.factors	3/6/2025		
			Vapour pressure of solutions of liquids in liquids, Raoult's law	4/6/2025		
			Colligative properties of nonelectrolyte solutions : Vapour pressure	5/6/2025	\M/hita	
2	2	Solutions	lowering		board &	
-	-	3014110113	Elevation in boling point, Depression in freezing point	6/6/2025	marker	
			Numericals	9/6/2025		
			Osmotic pressure	10/6/2025		
			Colligative properties of electrolytes, van't Hoff factor	11/6/2025		
			Numericals	12/6/2025		

			Crystalline & Amorphous solids	13/6/2025	PPT,
			Classification of crystalline solids	14/6/2025	White board
			Lattice point, unit cell & crystal lattice; Cubic system	16/6/2025	& marker
			Packing of particles in crystel lattice	17/6/2025	
			Coordination number	18/6/2025	
3	1	Solid state	Packing efficiency	19/6/2025	
			Numericals based on density & molar mass	20/6/2025	
			Crystall defects	23/6/2025	
			Elecric properties of solids; Magnetic properties of solids	24/6/2025	
			Semiconductors	25/6/2025	
			Classification of halogen derivatives	26/6/2025	
			Nomenclature	27/6/2025	
			Methods of Preparation of Alkyl Halides	28/6/2025	
			Physical properties of alkyl halides, Optical isomerism in halogen	1/7/2025	
			derivatives		
	10	Halogen derivatives	SN1 Mechanism	2/7/2025	PPT,
4	10		SN2 Mechanism	3/7/2025	White board & marker
			Reactions of alkyl halides	4/7/2025	
			Reactions of haloarenes-1	7/7/2025	
			Reactions of haloarenes- 2	8/7/2025	
			Uses & environmental effects of - dichloromethane, trichloromethane,	9/7/2025	
			tetrachloromethane, iodoform, freons, DDT		
			Introduction, Occurrence , Electronic configuration,	10/7/2025	
			Atomic & Physical properties of elements of group 16, 17 & 18	11/7/2025	
	5 7		Allotroy, oxoacids of sulphur & chlorine	12/7/2025	PPT,
		Elements of	Revision for UT 1	15/7/2025	White
5		Groups 16,17	Oxygen & compounds of oxygen	21/7/2025	board &
		and 18	Sulphur &Compounds of sulphur	22/7/2025	
			Chlorine & compounds of chlorine	23/7/2025	marker
			Interhalogen compounds	24/7/2025	
			Compounds of Xenon	25/7/2025	

			General introduction, electronic configuration, oxidation states of transition elements	26/7/2025	
			Trends in proprties of transition elements	28/7/2025	
			Preparation & properties of K2Cr2O7	29/7/2025	PPT,
		Transition &	Preparation & properties of KMnO4	30/7/2025	White
6	8	Inner transition elements	Metallurgy : Extraction of iron from heamatite ore	31/7/2025	board &
		elements	Inner transition elements: Lanthanoids- electronic configuration, oxidation states, lanthanoid contraction, Applications	1/8/2025	marker
			Actinoids: Electronic configuration, properties, applications, comparison with lanthanoids	4/8/2025	
			Types & properties of system	5/8/2025	
			Nature of heat & work	6/8/2025	
		Numericals First law of ther	Concept of maximum work	7/8/2025	
			Numericals	8/8/2025	
			First law of thermodynamics : Internal energy & enthalpy, Relationship between ΔH & ΔU	11/8/2025	
		Chemical	Enthalpies of physical transformations	12/8/2025	White board
7	4	Thermodynam	Thermochemistry, standard enthalpies	13/8/2025	& marker
		ics	Bond enthalpy, Hess's law of constant heat summation	14/8/2025	
			Numericals	18/8/2025	
			Spontanious process, Intoduction to entropy, Second law thermodynamics,	19/8/2025	
			Gibbs energy change for spontaneous & nonspontaneous process, criteria for equilibrium & spontaneity	20/8/2025	
			Numericals	21/8/2025	
			Rate of reactions	22/8/2025	White board
8	6	Chemical Kinetics	Rate laws & rate constant	23/8/2025	& marker
		Chemical Killetics	Order & Molecularity of reaction	25/8/2025	
			Integrated rate law & half life of first order reactions	26/8/2025	

			Zero order reactions : Rate law , half life & examples	28/8/2025] Γ	
8	6	Chemical Kinetics	Collision theory & Arhenius eqution	29/8/2025	1	
			Effect of Catalyst on rate of reaction; Numericals	30/8/2025	1	
			Electric conduction Metallic electrolytic conduction Conductance specific conductance Molar conductivity its significance	2/9/2025		
			Effect of concentration on conductance , molar conductance	3/9/2025	1	
			Variation of ^m with concentration , Kohlaraush law	4/9/2025	1	
			Revision for UT 2	8/9/2025	5	
			Molar conductivity & degree of dissociation , measurement of conductivity	13/9/2025		
	_		Elecrochemical cells , Electrolytic cells	15/9/2025	, , , , , , , , , , , , , , , , , , ,	
9	5	Electro chemistry	Quantitative aspects of electrolysis	16/9/2025		
			Galvanic cells	17/9/2025	a marker	
			Electrode potential , S.E.P., Nernst equation	18/9/2025	1	
		Gibbs energy of cell reaction & cell potential S.H.E., Dry cell	Gibbs energy of cell reaction & cell potential	19/9/2025		
			S.H.E., Dry cell	22/9/2025		
			Lead storage battery,Fuel cells	23/9/2025		
			Electrochemical series	24/9/2025		
			Numericals	25/9/2025		
		Green Chemistry	Introduction, principles of green chemistry	26/9/2025		
			Role of green chemistry	27/9/2025		
10	16	chemistry	Introduction to nanochemistry	29/9/2025	& Illaikei	
			Characteristic features of nanoparticles, synthesis of nanomaterials, Applications of nanomaterials	30/9/2025		
		Introduction to	Introduction, Classification of polymers (based on source & structure)	1/10/2025	White board	
10	15	Polymer	Classification of polymers (based on mode of polymerisation)	3/10/2025	& marker	
		Chemistry	Classification of polymers (based on intermolecular forces, type of monomers, biodegradability)	6/10/2025		

11	11 15	Introduction to	Some Important Polymers : Natural Rubber, Polythene, Teflon;Polyacrylonitrile, polyamides, polyesters	7/10/2025	PPT, White board & marker
11		Polymer Chemistry	Phenol- formaldehyde & related polymers	8/10/2025	& marker
		Chemistry	Revision for Term 1	9/10/2025	
			Carbohydrates : Classification & Nomenclature	3/11/2025	
			Glucose: Preparation & chemical properties	4/11/2025	
			Ring structure of glucose, Haworth projection formula	6/11/2025	PPT,
12	14	Biomolecules	Disaccharides : Maltose, Lactose, Sucrose	6/11/2025	White
			Polysachharides : Starch, Cellulose, Glycogen	7/11/2025	board &
			Alpha amino acids	8/11/2025	marker
			Peptide bond, types of proteins;Structure of proteins	10/11/2025	
			Denaturation of proteins, Enzymes	10/11/2025	
			Introduction, ligands, Types of ligands, coordination	11/11/2025	PPT,
			number, coordination sphere		White board & marker
			Werner's theory, classification of complexes, VBT, CFT	12/11/2025	& marker
			IUPAC Nomenclature of coordination compounds	13/11/2025	
13	12 0	9 Coordination compounds	EAN Rule	14/11/2025	
13	3		Isomerism (structural & stereo), bonding	17/11/2025	
			Stabilty of coordination compounds	18/11/2025	
			Valence Bond Theory	19/11/2025	
			Crystal Field Theory	19/11/2025	
			Importance of coordination compounds	20/11/2025	
			Introduction, Classification of alcohols, phenols & ethers	21/11/2025	
			IUPAC Nomenclature of alcoholes	22/11/2025	
4.4	44	Alcohols , Phenols	IUPAC Nomenclature of phenols & ethers	24/11/2025	PPT,
14	11	& Ethers	Methods of preparation of alcoholes - I	25/11/2025	White board & marker
			Methods of preparation of alcoholes - II	26/11/2025	
			Methods of preparation of phenols	27/11/2025	

			Physical properties of alcoholes	28/11/2025		
			Chemical properties of alcoholes	28/11/2025	•	
		Alcohols , Phenols	Physical properties of phenols	29/11/2025	PPT,	
14	11	& Ethers	Chemical properties of phenols	1/12/2025	White board & marker	
			Preparation of ethers	2/12/2025	& marker .	
			Chemical properties of ethers	3/12/2025		
			Aldehydes & ketones : Nomenclature & classification	4/12/2025	White board	
	Aldehyde, 15 12 Ketone &		Aldehydes & ketones : Methods of preparation-1	5/12/2025	& marker	
			Aldehydes & ketones : Methods of preparation-2	8/12/2025		
			Physical and chemical properties	9/12/2025		
			Aldehydes & ketones :Chemical Reactions-1	10/12/2025		
15			Aldehydes & ketones :Chemical Reactions-2	11/12/2025		
			Aldehydes & ketones : Oxidation & Reduction reactions	12/12/2025		
			Carboxylic Acids: Nomenclature, Acidic character of carboxylic acids	15/12/2025		
			Carboxylic Acids: Methods of preparation	16/12/2025		
			Carboxylic Acids : Chemical Reactions	17/12/2025		
			Amines : Nomenclature & Classification	18/12/2025		
			Methods of preparation of amines	19/12/2025		
16	13	Amines	Physical properties of amines	22/12/2025	White board	
			Chemical properties of amines	23/12/2025	& marker	
			Reactions of aryl diazonium salts	24/12/2025		

Chemistry Department

Mrs. Kanchan Patil

Mrs. Bhagyashri Dhopate

Mrs.Anita Madhekar

Mrs. Kalyani Bhondve Coordinator Mr. S.N.Patil Principal



Pimpri Chinchwad Education Trust's

S.B. PATIL COLLEGE OF SCIENCE & COMMERCE, RAVET

Sr. no. 110, Gate No 1, Ravet, Pune- 412101

www.sbpatilcollege.com, email-sbpc.science@gmail.com
252001412

College Index No: J.11.16.066

A	CA/DI/37	Teaching Plan (A.Y. 2025-26)	Academic Year 25-26
]	Rev : 00	Subject : CHEMISTRY	Subject Code: 55
Date	e: 7/05/2025		Class XII
Exam	Date	Topics	
Unit Test 1 15th to 18th July 2025 1)Solid state 2) Solutions and 3)Ionic Equilibria			
Unit Test 2	1.9 to 12 th Sen Circups 10.17 and 18. 8) Fransition & Inner transition elements.		
Term 1 Exam	10 to 17th Oct 2025	1)Solid state 2) Solutions and 3)Ionic Equilibria,4)Chemi Thermodynamics , 5)Electrochemistry, 6)Chemical kinet of group 16,17 and 18,8)Transition & Inner transtion elen Halogen Derivatives 16)Green Chenmistry and Nanocher	ics,7)Elements nents,10)
Prelim2 nd toAll syllabus110 th Jan 2026			
Prelim 2	22nd to30 th Jan 2026	All syllabus	

Mrs. Kanchan Patil

Mrs. Bhagyashri Dhopate

Mrs.Anita Madhekar

(Chemistry Teacher)

Mrs. Kalyani Bhondave

Mr. S.N.Patil

(Academic Co-ordinator)

(Principal, SBPCSC)



Pimpri Chinchwad Education Trust's S.B. PATIL COLLEGE OF SCIENCE & COMMERCE, RAVET Sr. no. 110, Gate No 1, Ravet, Pune- 412101 www.sbpatilcollege.com, email-sbpc.science@gmail.com College Index No: J.11.16.066



XII SCIENCE

Month	Chapter No.	Name of the Chapter	
May-25	3	Ionic Equilibria	
Jun-25	2	Solutions	
Jun-25	1	Solid state	
	10	Halogen derivatives	
Jul-25	7	Elements of Groups 16,17 and 18	
	8	Transition & Inner transition elements	
A 25	4	Chemical Thermodynamics	
Aug-25	6	Chemical Kinetics	
Con 25	5	Electrochemistry	
Sep-25	16	Green Chemistry and Nanochemistry	
	14	Biomolecules	
Nov-25	15	Introduction to Polymer Chemistry	
	9	Coordination compounds	
	11	Alcohols, Phenols & Ethers	
Dec-25	12	Aldehyde, Ketone & Carboxylic acid	
	13	Amines	