

**O.P.JINDAL SCHOOL,SAVITRI NAGAR**

**ANNUAL SYLLABUS (2024-25)**

**CLASS-XI**

**SUBJECT-CHEMISTRY**

SN	MONTH	LD	NO.OF PERIODS	CHAPTER	ENRICHMENT ACTIVITY	VALUES IMPARTED/LEARNING OUTCOMES	EXTRA CONTENT
1	JUNE	11		1.Some Basic Concept of Chemistry	Discussion and demonstration method, Question-answer method <b>Activity</b> – To verify the law of conservation of mass	Student will learn about the basic concept of chemistry, Different terms of concentration of solution and basic terms used in the measurement.	Relationship between : --empirical formula and molecular formula --Molarity and molality
2	JULY	23		2.Structure of Atom	Discussion and demonstration method, Question-answer method <b>Activity</b> -To analyse the acid and basic radical in the given salt. (NH <sub>4</sub> Cl)	Student will learn about different theory and atomic models of atom, and their significance. Understand micro structure of atom.	V.B. T. ANF C.F.T
3	AUGUST	23		3.Classification of elements and Periodicity in Properties  4.Chemical Bonding and Molecular Structure	Discussion and demonstration method, Question-answer method <b>Activity</b> -To analyse the acid and basic radical in the given salt. (NH <sub>4</sub> Br)  Discussion and demonstration method, Question-answer method <b>Activity</b> - <b>Activity</b> -To analyse the acid and basic radical in the given salt. (NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub> .	Student will understand the features of modern periodic Table and the periodic properties of different elements.  Student will learn about the different theory of chemical bonding and molecular structure of different compounds with their properties. Students will understand the behavior of ideal and real gas in different condition with different gas laws, properties of liquid	10 MCQ based on IIT/NEET
4	SEP	12		HALF YEARLY EXAMINATION			
5	OCTOBER	20		8.Redox Reactions	Discussion and demonstration method, Question-answer method <b>Activity</b> - To analyse the acid and basic radical in the given salt. MgSO <sub>4</sub>	Student will learn about the concept of redox reaction and their types. They will also generalize the properties of hydrogen.	
6	NOVEMBER	13		7.Equilibrium	Discussion and demonstration method, Question-answer method	They will enhance the knowledge of equilibrium state and factors, concept of	10 MCQ based on IIT/NEET

				12.Organic Chemistry: Some Basic Principles and Techniques	<b>Activity-</b> Solve thenumericalproblems  Discussionand demonstrationmethod ,Question- answermethod <b>Activity-</b> To analyze the acidand basic radical in the givensalt. <b>Pb(NO<sub>3</sub>)<sub>2</sub></b> and <b>Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></b>	acid and base, electrolytes andtheirbehavior.  Student will learn about theclassification,IUP ACnameofcarboncom pounds and also the qualitativeandquantit ativeanalysisofeleme nts.	
7	DECE MBER	19		13.Hydrocarbon		students will learn about theStructures,Physica landchemicalpropti eswith reactionsofalkanes,al kenes,alkynesandaro maticcompounds.che micalreactionofprepar ation,isomerism.	10 MCQ based on IIT/NEET
8	JANUA RY	22		6.Chemical Thermodynamics	Lecturemethod,Discu ssion anddemonstration method,Question- answermethod <b>Activity-</b> Find the molarity andstrengthofHCloluti on byM/20solutionofNaH CO <sub>3</sub>	Studentwilllearnabo utthe different laws of thermodynamics,and the criteria of spontaneity by theentropy andfreeenergy.	
9	FEBRU ARY	15		ANNUAL EXAMINATION			
10	MARC H			ANNUAL EXAMINATION			

#### SYLLABUS FOR EXAMINATION

SN	EXAMINATION	MONTH	MAX. MARKS	MAX. TIME	SYLLABUS FOR EXAMINATION
1	PT-1	JULY	20	1 Hr	Chapter-1 and 2
2	PT-1	AUGUST	20	1Hr	Chapter-2 and 3
3	Half Yearly Examination	SEPTEMBER	70	3 Hrs	Chapter-1,2,3and 4
4	PT-3	NOVEMBER	20	1 Hr	Chapter-7and 8
5	PT-3	JANUARY	20	1Hr	Chapter -12 and 23
6	Annual Examination	FEBRUARY	70	3 Hrs	Chapter-1,2,3,4,6,7,8,12,13