Split-up syllabus
CHEMISTRY

Months	No. of working days	Detailed split-up concepts	Periods For Class Room teaching
April	24	Unit - 1 Solid State Unit – 2 Solutions Unit –3 Electro Chemistry	22
May	14	Unit –4 Chemical Kinetics Unit –5 Surface chemistry	11
June	6	Unit –6 General principles and processes of isolation of elements	5
July	20	Unit –7 p-Block Elements Unit test Unit –8 d &f-Block Elements Ist unit Test	18
August	24	Unit –9 Co-ordination Compounds Unit –10 Haloalkanes & Haloarenes	23
September	25	Unit –11 Alcohols , Phenols & Ethers Screening test Unit –12 Aldehydes & Ketones & Carboxylic Acids	24
October	16	Unit –13 Organic Compd. Containing Nitrogen Unit –14 Biomolecules Half Yearly	14
November	18	Unit –15 Polymers Unit –16 Chemistry in Everyday life	15
December		Revision and First Pre Board	
January		Revision and 2nd Pre Board	

CHEMISTRY practical –XII

MONTH	EXPERIMENTS	No OF PERIODS
APRIL	(A)Preparation of inorganic compounds (i)Preparation of double salt of ferrous ammonium sulphate or potash alum. (ii)Preparation of potassium ferric oxalate. (B)Electrochemistry Variation of cell potential in Zn /Zn^{2+} II Cu $^{2+}$ /Cu with change in concentration of electrolytes ($CuSO_4$ OR $ZnSO_4$)at room temperature.	4
JULY	(C)Chemical Kinetics (i) Effect of concentration on the rate of reaction between Sodium thiosulphate & Hydrochloric acid. (ii)Study of reaction rate of any one of the following :- (a) Reaction of iodide ion with hydrogen peroxide at room temperature using diff erent concentrations of iodide ions. (b) Reaction between potassium iodate & sodium sulphite using starch solution as indicator .	2 4
	(D) Surface chemistry (a) preparation of one lyophilic &one lyophobic sol . lyophilic sol- starch, egg albumin & gum lyophobic sol- $Al(OH)_3$, $Fe(OH)_3$, As_2S_3. (b) Study of role of emulsifying agent in stablising the Emulsions of different oils.	 6
	(E) Determination of concentration / molarity of $KMnO_4$ solution by titrating it against a standard solution of (i) oxalic acid (ii) ferrous ammonium sulphate. (students will be required to prepare solution by weighing themselves)	
AUG	(F) Thermochemistry Any one of the following experiments (i) Enthalpy of dissolution of $CuSO_4$ OR KNO_3. (ii) Enthalpy of neutralization of strong acid (HCl) & strong base (NaOH). (iii) Determination of enthalpy change during interaction between acetone & $CHCl_3$	8
	(G) Chromatography (i) Separation of pigments from the extracts of leaves & flowers by paper chromatography & Determination of Rf values. (ii) Separation of constituents present in an inorganic mixture containing cations only.	2
SEP	(H) Qualitative Analysis Determination of one cation & one anion in a given salt Cations – Pb^{2+} , Cu^{2+}, As^{3+}, Al^{3+}, Fe^{3+}, Mn^{2+}, Zn^{2+}, Co^{2}+, Ni^{2}+, Ca^{2}+, Sr^{2}+, Ba^{2}+, Mg^{2}+, NH4+ Anions- CO_3^{2}-, S^{2}-, SO_3^{2-} , SO_4^{2-}, NO_2^{-}, NO_3- , Cl^{-} , Br^{-}, I^{-}, PO_4^{3-}, $C_2O_4^{2-}$, CH_3COO^{-} (Insoluble salts excluded)	4
	(I)Preparation of organic compounds. Preparation of any two of the following (i) Acetanilide. (ii) Dibenzal acetone. (iii) P-Nitroacetanilide (iv) Aniline yellow or 2-Napthol aniline dye (v) Iodoform	 14
	(J) Test for functional groups present in organic compounds Unsaturation , alcohol, phenol, aldehyde, ketone, carboxylic, & amino (primary) gp.	4
OCT	(K) Study of carbohydrates , fats & proteins in pure forms & detection of their presence in the given food stuffs Investigatory Project	6