

## INDIAN SCHOOL AL WADI AL KABIR - SYLLABUS BREAK UP FOR MARCH 2020

Class XII	Week1	Week2 March 11 & 12	Week3 March 15 - 19	Week4 March 22 - 26	Week5 March 29 - 31
English	-	-	-	Introduction and Outline of Syllabus  Lit. C.C. Lost Spring  Lit C.C. : My Mother at Sixty – Six (Poem)	Lit. S.R : The Tiger King Lang.: Article Writing Note making  Lit: C.C- The Last Lesson  Lang.: Notice Writing and Posters
Mathematics	-	-	-	<b>Relations and Functions:</b> *Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function.	<b>Inverse Trigonometric Functions:</b> *Definition, domain range, principal value branch. Graphs of inverse trigonometric functions.  Elementary properties of inverse trigonometric functions.
Physics	-	-	-	<b><u>CHAPTER1</u></b> Electric Charges; Conservation of charge, Coulomb’s law-force between two point charges, forces between multiple charges; superposition	statement of Gauss’s theorem and its applications to find field due to infinitely long straight wire, <u>Uniformly charged infinite plane sheet</u> and <u>uniformly charged thin spherical shell(field inside and outside).</u> <b><u>CHAPTER2</u></b>

				<p>principle and continuous charge distribution.</p> <p>Electric field, electric field due to a point charge.</p> <p>Electric field lines, electric dipole, Electric field due to a dipole, torque on a dipole in uniform electric field</p> <p>Electric flux,</p>	<p>Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges;</p>
Chemistry	-	-	-	<p><b>CHAPTER 5 – SURFACE CHEMISTRY</b></p> <p>Adsorption - physisorption and chemisorption, factors affecting adsorption of gases on solids, catalysis, homogenous and heterogenous activity and selectivity; enzyme catalysis colloidal state distinction between true solutions, colloids and</p>	<p><b>CHAPTER 15 – CHEMISTRY IN EVERYDAY LIFE</b></p> <p>Chemicals in medicines - analgesics, tranquilizers antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines. Chemicals in food - preservatives, artificial sweetening agents, elementary idea of antioxidants. Cleansing agents- soaps and detergents, cleansing action.</p>

				<p>suspension; lyophilic, lyophobic multi-molecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion</p> <p>- types of emulsions</p>	
Biology	-	-	-	<p><b>Organisms and Populations</b> – Abiotic factors, adaptations, population growth, population interactions</p>	<p><b>Ecosystem</b> – Components, energy flow, pyramids, nutrient cycling, succession</p>
Informatics Practices	-	-	-	<p>MySQL Revision on DML commands select statement, where, - between, like, in , is null etc..</p>	<p>Aggregate Functions in SQL – Sorting – Order By</p>
Computer Science	-	-	-	<p>Computer Networks Structure of Network – Types of Networks – Communication Medium – Twisted</p>	<p>Wireless Communication Medium – radiowave, microwave, infrared wave – Bluetooth.</p>

				Pair, Coax, Optical Fiber.	
Accountancy	-	-		Statement of Profit and Loss and balance sheet in the prescribed form with major heading and sub heading Comparative & Common Size Statement	Accounting ratio: meaning, objective, classification.  Liquidity ratios  Solvency ratios
Business Studies	-	-		Chapter-1 <u>Nature and Significance of management</u> <ul style="list-style-type: none"> <li>• Management – Concept, Objectives and Importance</li> <li>• Management as a Science, Art and Profession</li> <li>• Levels of Management</li> </ul>	<ul style="list-style-type: none"> <li>• Management functions – Planning, Organizing, Staffing, Directing and Controlling</li> <li>• Coordination – Concept, Characteristics and Importance</li> <li>• <u>Chapter -2 Principles of Management</u></li> <li>• Concept, Nature and Significance of Principles of Management</li> </ul>
Entrepreneurship	-	-		Sensing Entrepreneurial Opportunities Environment Scanning Problem Identification	Problem Identification Spotting Trends Creativity and Innovation

Economics	-	-		<p>Money – meaning and supply of money  Currency held by the public and net demand deposits held by the commercial banks.  Money creation by the commercial banking system.</p>	<p>Central bank and its functions (Reserve bank of India)  Control of credit through Bank rate, CRR, SLR ,Repo rate and Reverse Repo rate, Open market operations, Margin requirement.</p>
Engineering Graphics	-	-	-	<p><b>Unit I ISOMETRIC PROJECTION</b></p> <p>Introduction to the  Explanation of all terms and title block construction</p> <p>Isometric Projection of Prisms</p> <p>Single solids</p> <p>Construction of Isometric scale</p> <p>Isometric projection of pyramids.</p>	<p>Isometric projection of frustums of solids</p> <p>Isometric projection of cone and cylinder</p> <p>Isometric projection of combination of solids</p> <p>All types of combinations of prisms and pyramids in both vertical and horizontal position</p>
Psychology				<p>CHAPTER 3:  <b>Meeting Life  Challenges</b></p> <ul style="list-style-type: none"> <li>Nature and Type of stress</li> </ul>	<p>CHAPTER 9: <b>Developing Psychological Skills</b></p> <ul style="list-style-type: none"> <li>Introduction</li> <li>Developing as an Effective Psychologist</li> <li>General Skills Intellectual and Personal Skills; Sensitivity to Diversity : Individual and Cultural Differences</li> </ul>

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Class XII	WEEK 1 April 1 & 2	WEEK 2 April 5 - 9	WEEK 3 April 12 - 16	WEEK 4 April 19 - 23	WEEK 5 April 26 - 30
English	Lit: C.C- Deep Water  Lang.: Invitations – (Formal) Lang: Note-Making and Summary	Lit: S.R.- The Third Level  Lang.: Invitations – (Formal Contd. Letter Writing – Job Application	Lit.S.R.: Journey to the end of the World  Lang: Reading Comprehension 1, Posters, Notices	-	-
Mathematics	Elementary properties of inverse trigonometric functions contd. Practice Problems.	<b>Continuity and Differentiability:</b> LHL, RHL, Continuity , LHD, RHD and differentiability, Derivative of composite functions(Chain rule)	Continuity and Differentiability: Logarithmic differentiation, derivative of functions expressed in parametric forms.	-	-

Physics		<p>equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.</p> <p>Conductors and insulators, free charges and bound charges inside a conductor</p> <p>Dielectrics and electric polarization</p> <p>capacitors and capacitance,</p>	<p>combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.</p> <p><b><u>CHAPTER3</u></b></p> <p>Electric current, flow of electric charges in a metallic conductor</p>	--	
Chemistry		<p><b>UNIT 14</b></p> <p><b>BIOMOLECULES</b></p> <p>Carbohydrates – Classification (aldoses and ketoses), monosaccharide (glucose and fructose), D-L configuration,</p>	<p>oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen): importance.</p> <p>Proteins - Elementary idea of a - amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only),</p>	-	-

Biology		<b>Biodiversity and conservation</b> – Levels, patterns, importance, loss of biodiversity, conservation	<b>Environmental issues</b> – Air, water, solid and radioactive pollution, case studies, greenhouse effect, ozone layer depletion	--	
Informatics Practices	Group By – Having Clause – Aggregate Functions and Condition on Groups	DDL command – Alter – Drop	Single row functions- numeric, string and date functions.	-	-
Computer Science	Satellite link - Client / Server Architecture	Network Devices - NIC, switch, hub, repeater, gateway, router, and access point - wireless -WAP	Setting up a network – Network stack. amplitude and frequency modulation, collision in wireless networks, error checking	-	-
Accountancy	Turnover ratios  Profitability Ratios	Profitability Ratios  Meaning, objective, uses, limitations of CFS  CFS : Operating activity	CFS: Investing activity  CFS: Financing Activity		



Business Studies	<ul style="list-style-type: none"> <li>• Taylor's Scientific Management, Principles and techniques</li> <li>• Fayol's Principles of management. Fayol/s taylor (Comparison)</li> </ul>	<u>Chapter -3 Management and Business Environment</u> <ul style="list-style-type: none"> <li>• Business Environment – Concept and Importance</li> <li>• Dimensions of Business Environment</li> <li>• Impact of Government policy</li> </ul>	<u>Chapter -4 Planning</u> <ul style="list-style-type: none"> <li>• Concept, Importance and Limitations</li> <li>• Planning process</li> <li>• Types of Plan</li> <li>• Single use and standing plans</li> </ul>		
Entrepreneurship	Creativity and Innovation Selecting the Right Opportunity	Forms of Business Entities	Forms of Business Entities		
Economics	A brief introduction of the state of Indian economy on the eve of independence. Common goals of five year plans. Main features, problems and policies of agriculture: Institutional aspects and new agricultural strategy, etc , Industry and Foreign trade.	Basic concepts in macroeconomics - Consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.	Circular flow of income (two sector model) Methods of calculating national income – Value added method,		

Engineering Graphics		<p>Combination of solids extra problems from isometric projection.</p> <p><b>unit 2 : Machine Drawing</b></p> <p>Introduction Threads and its definitions</p> <p>Types of screw threads: BSW thread Metric Internal Metric external Square thread Knuckle thread</p>	<p>Types of bolts :</p> <p>Hexagonal headed bolt</p> <p>Square headed bolt</p> <p>Tee headed bolt</p> <p>Hook bolt / J bolt</p> <p>Types of nuts :</p> <p>Hexagonal nut</p> <p>Square nut</p>		
Psychology	<p>CHAPTER 3: <b>Meeting Life Challenges</b></p> <ul style="list-style-type: none"> <li>• Sources of Stress</li> <li>• Effects of Stress on Psychological Functioning and Health</li> </ul>	<p>CHAPTER 9: <b>Developing Psychological Skills</b></p> <ul style="list-style-type: none"> <li>• Observation skills</li> <li>• Types of observation</li> <li>• Advantages Disadvantages</li> </ul>	<p>CHAPTER 3: <b>Meeting Life Challenges</b></p> <ul style="list-style-type: none"> <li>• Effects of Stress on Psychological Functioning and Health (continued)</li> <li>• Coping with stress</li> </ul>		

