Delhi Public School Srinagar

Syllabus 2020



SUBJECT: ENGLISH (301)

MARCH

TO	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
			21
2 ND WEEK	Notices, An elementary school classroom in a slum.		
3 RD WEEK	Lost Spring		
4 TH WEEK	Invitations and replies		
5 TH WEEK	Comprehension passages.		

APRIL

TOP	ICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
			26
1 ST WEEK	Roadside Stand	•	
2 ND WEEK	Memories of Childhood Anecdote 1		
3 RD WEEK	Memories of Childhood Anecdote 2		
4 TH WEEK	Indigo		
5 TH WEEK	Aunt Jennifer's Tigers		

MAY

TOPI	CS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
			27
1 ST WEEK	The last lesson, Curriculum Vitae		
2 ND WEEK	A thing of Beauty, A letter to Editor.		
3 RD WEEK	Third Level, Note making.		
4 TH WEEK	Report Writing (Newspaper Report) (Magazine Report)		
5 TH WEEK	Report Writing (Contd.)		

JUNE

TOPI	CS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
			26
1 ST WEEK	Going Places Article Writing		
2 ND WEEK	Business Letters		
3 RD WEEK	Business Letters (contd.)		

	ASL
4 TH WEEK	Mid-Term Examination
5 TH WEEK	Mid-Term Examination

JULY

TOPICS / CHAPTERS WEIGHT-AGE		TEACHING PERIODS	
			5
1 ST WEEK	Mid-Term Examination		
2 ND WEEK	Mid-Term Examination		
3 RD WEEK	Summer Break		
4 TH WEEK	Summer Break/ Cross Checking		
5 TH WEEK	My Mother at Sixty Six		

AUGUST

TOPI	CS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
			26
1 ST WEEK	The Rat Trap, Speech Writing		
2 ND WEEK	On the Face of It		
3 RD WEEK	Should Wizard Hit Mommy? Comprehension Passage.		
4 TH WEEK	Enemy		
5 TH WEEK	Debate Writing		

SEPTEMBER

TOP	ICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
			26
1 ST WEEK	Keeping Quiet The Tiger King		
2 ND WEEK	Journey to the end of the earth, Deep water		
3 RD WEEK	Evans Tries an O-Level		
4 TH WEEK	Evans Tries an O-Level (contd.) The interview.		
5 TH WEEK	Poster Making Note Making Passage		

OCTOBER

TOPI	CS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
			9
1 ST WEEK	Poets and Pan-cakes, Advertisements		
2 ND WEEK	Advertisements (Contd.)		

3 RD WEEK	Post-Mid Examination
4 TH WEEK	Post-Mid Examination
5 TH WEEK	Post-Mid Examination

NOVEMBER

TOPI	ICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
1 ST WEEK	ASL & Project Work		
2 ND WEEK	Revision		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	Preboard Examination		

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
1 ST WEEK	K External Practical Examination		
2 ND WEEK	K External Practical Examination		
3 RD WEEK	External Practical Exami	nation	
4 TH WEEK	External Practical Exami	nation	

SUBJECT: PHYSICS (042) (SET A)

MARCH

ТС	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter : Electric Charges and Fields			22
2 ND WEEK	Electric Charges;Conservation of charge,		
3 RD WEEK	 Coulomb's law-force between two point charges Forces between multiple charges; superposition principle 		
4 TH WEEK	Electric field, electric field due to a point charge		
5 TH WEEK	 Continuous charge distribution Electric flux 		

APRIL

7	TOPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
4	ctric Charges and Fields (continued) ctrostatic Potential and capacitance		26
1 ST WEEK	Field due to infinitely long s	section of causes sures en and its approach to juice	
2 ND WEEK		Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges	
3 RD WEEK	Equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.		
4 TH WEEK	> Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation		
5 TH WEEK	Capacitors and capacitance		

MAY

TOPICS / CHAPTERS	WEIGHT-	TEACHING
TOPICS / CHAPTERS	AGE	PERIODS

-	rostatic Potential and capacitance oter: Current Electricity		
1 ST WEEK	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		
2 ND WEEK	 Electric current, Flow of electric charges in a metallic conductor, Drift velocity, mobility and their relation with current. 		
3 RD WEEK	 Ohm's law, Electrical resistance, V-I characteristics (linear and non-linear), Electrical energy and power, Electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; 		
4 TH WEEK	 Series and parallel combinations of resistors Temperature dependence of resistance. Internal resistance of a cell, Potential difference and emf of a cell Combination of cells in series and in parallel Kirchhoff's laws and simple applications, 		
5 TH WEEK	Wheatstone bridgeMetre bridge		

JUNE

то	PPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter : Current Electricity Chapter : Moving Charges and Magnetism			22
1 ST WEEK	Potentiometer - principle and potential difference and for a measurement of internal resi	comparing EMF of	
2 ND WEEK	Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop		
3 RD WEEK	Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment)		
4 TH WEEK	> Mid term Examination		
5 TH WEEK	> Mid term Examination		

JULY

TODICS / CHAPTEDS	WEIGHT-	TEACHING
TOPICS / CHAPTERS	AGE	PERIODS

Chapter : M	oving Charges and Magnetism
1 ST WEEK	Mid term Examination
2 ND WEEK	> Mid term Examination
3 RD WEEK	> Summer Break
4 TH WEEK	Summer Break/ Cross checking
5 TH WEEK	Moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.

AUGUST

TO	PICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS	
Chapter : Moving Charges and Magnetism Chapter : Magnetism and Matter		23		
1st WEEK		fields, Cyclotron. Force on a current-carrying conductor in a		
2 ND WEEK	definition of ampere, torque	definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and		
3 RD WEEK	Magnetic dipole moment of a revolving electron magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field			
4 TH WEEK	Bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements			
5 TH WEEK	> Permanent magnets.			

SEPTEMBER

то	PICS / CHAPTERS WEIGHT AGE	- TEACHING PERIODS
Chapter : M	oving Charges and Magnetism	25
Chapter–6	: Electromagnetic Induction	23
1st WEEK	Para-, dia- and ferro - magnetic substance	
1 WEEK	Electromagnets and factors affecting their	strengths,
2 ND WEEK	> Electromagnetic induction; Faraday's laws	S
3 RD WEEK	> Induced EMF and current; Lenz's Law Edd	ly currents.
4 TH WEEK	> Self and mutual induction.	
5 TH WEEK	> Numericals	

OCTOBER

ТО	PICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter: Alternating Current			12
1st WEEK	> L-C Oscillations		
2 ND WEEK	> AC Generator and Transformer		
3 RD WEEK	> Post- mid Examination		
4 TH WEEK	> Post- mid Examination		
5 TH WEEK	Post- mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Re	Revision/ Project Work		12
1ST WEEK	Revision/ Project Work		
2 ND WEEK	Revision/ Project Work		
3 RD WEEK	Pre board examination		
4 TH WEEK	Pre board examination		
5 TH WEEK	Pre board examination		

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1 ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		
5 TH WEEK	External Practical Examination	_	

SUBJECT: PHYSICS (042) (SET B)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter: Ray Optics and Optical Instruments			22
1 ST WEEK	Reflection of lightSpherical mirrors		
2 ND WEEK	Mirror formulaMagnification		
3 RD WEEK	 Refraction of light Total internal reflection Applications oftotal internal reflection, optical fibres 		
4 TH WEEK	 Refraction at spherical surface Lenses Lensmaker's formula 	S	
5 TH WEEK	 Thin lens formula Magnification Power of a lens 		

APRIL

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter: Ray O	ptics and Optical Instruments		
(continued)			26
Chapter: Wave	Optics		20
1 ST WEEK	Combination of thin lenses in c	ontact	•
1° WEEK	> Refraction and dispersion of lig	ght through a prisi	m.
2 ND WEEK	➤ Microscopes and astronomical telescopes (reflecting and		
2" WEEK	refracting) and their magnifying powers.		
➤ Wave front and Huygen		riple	
3 RD WEEK	Reflection and refraction of plane wave at a plane surface using		
	wave fronts.		
	Proof of laws of reflection and	refraction using H	Huygen's
4 TH WEEK	principle		
	> Interference		
5 TH WEEK	➤ Young's double slit experiment	and expression fo	r fringe width

TOPICS / CHAPTERS		WEIGHT-	TEACHING
		AGE	PERIODS
Chapter: Wave Optics(continued) Chapter: Dual Nature of Radiation and Matter			22
1 ST WEEK	 Coherent sources and sustained interference of light Diffraction due to a single slit Width of central maximum 		
2 ND WEEK	 Resolving power of microscope and astronomical telescope Polarisation plane polarised light 		
3 RD WEEK	 Brewster's law Uses of plane polarised light and Polaroids 		
4 TH WEEK	 Dual nature of radiation Photoelectric effect Hertz and Lenard's observations 		
5 TH WEEK	> Experimental study of photoele	ctric effect	

JUNE

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter: Dual N	ature of Radiation and Matter		
(continued)			22
Chapter: Atoms			
1 ST WEEK	 Einstein's photoelectric equation-particle nature of light Matter waves-wave nature of particles de-Broglie relation Davisson-Germer experiment 		
2 ND WEEK	 Alpha-particle scattering experiment Rutherford's model of atom 		
3 RD WEEK	Bohr model of atomEnergy levels		
4 TH WEEK	> Hydrogen spectrum		
5 TH WEEK	Mid-Term Examination		

JULY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
M	id term Examination		
1 ST WEEK	Mid-Term Examination		
2 ND WEEK	➤ Mid-Term Examination		
3 RD WEEK	Summer Break		

4 TH WEEK	>	Summer Break/ Cross checking
5 TH WEEK	\wedge	Composition and size of nucleus

AUGUST

TO	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter: Nuclei Chapter:Semiconductor Electronics: Materials, Devices and Simple Circuits			23
1 st WEEK	 Mass-energy relation Mass defect Binding energy per nucleon an 	Mass defect	
2 ND WEEK	 Nuclear fission and nuclear fusion Radioactivity, alpha, beta and gamma particles/rays and their properties 		
3 RD WEEK	> Radioactive decay law.		
4 TH WEEK	 Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode and its I-V characteristics in forward and reverse bias 		
5 TH WEEK	Diode as a rectifier		

SEPTEMBER

Т	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS	
Chapter: Semiconductor Electronics: Materials, Devices and Simple Circuits (continued) Chapter: Electromagnetic Waves			25	
1st WEEK	> LED, photodiode, solar cell an	> LED, photodiode, solar cell and their characteristics		
2 ND WEEK	 Zener diodeand its characteristics Zener diode as a voltage regulator 			
3 RD WEEK	 Basic idea of displacement current Electromagnetic waves and their characteristics 			
4 TH WEEK	> Transverse nature of electromagnetic waves.			
5 TH WEEK	Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.			

OCTOBER

TOPICS / CHAPTERS	WEIGHT-	TEACHING
	AGE	PERIODS

Chapter: Alternating Current		12
1st WEEK	 Alternating currents Peak and RMS value of alternating current/voltage; Reactance and impedance 	
2 ND WEEK	 LCR series circuit and resonance Power in AC circuits, power factor, wattless current 	
3 RD WEEK	> Post-Mid Examination	
4 TH WEEK	> Post-Mid Examination	
5 TH WEEK	> Post-Mid Examination	

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Pr	reboard Examination		12
1ST WEEK	Revision		
2 ND WEEK	Revision		
3 RD WEEK	> Preboard Examination		
4 TH WEEK	> Preboard Examination		
5 TH WEEK	> Preboard Examination		

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1 ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		
5 TH WEEK	External Practical Examination		

SUBJECT: CHEMISTRY (043)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Solutions, Alkyl Halide And Aryl Halide		6+5	20
2 ND WEEK	Classification and types of solution, expressing concentration of a solution, solubility and factors affecting solubility, Henery's law. Classification and nomenclature of haloalkanes, nature of C-X bond, methods of preparation of haloalkanes, physical properties of alkyl halides and aryl halides.		
3 RD WEEK	Vapour pressure, Raoult's law for volatile and non volatile solute,		
4 TH WEEK	Colligative properties-elevation of boiling point, depression of freezing point, osmotic pressure, relative lowering of vapour pressure, determination of molecular masses using		
5 TH WEEK	Abnormal molecular mass, Van't Hoff factor.		

APRIL

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chemical I	Kinetics, Alcohols And Phenols.	6+4	25
1 ST WEEK	1STWEEK Rate of a reaction (Average and instantaneous). Classification and nomenclature of alcohols		
2 ND WEEK	Effect of concentration, order and molecularity of reaction, rate law and rate constant. Methods of preparation of alcohols.		
3 RD WEEK	Integrated rate laws-zero and first order reactions, half life period of zero and first order reaction. physical and chemical properties of alcohols, identification of primary, secondary and tertiary alcohols, mechanism of dehydration,		
4 TH WEEK Effect of temperature on rate, Arrhenius equation and activation energy, Elementary concept of collision theory, Nomenclature, methods of preparation, physical properties and acidic nature of phenol,		nd activation	

5 TH WEEK	Effect of catalyst on rate. Electrophillic substitution reactions of phenols. Assignment: Chemistry in everyday life. (soft copy of assignment, along with video lesson, will be provided to students)

MAY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Electrochemistry, Ether And Nitrogen Containing Compounds		7+5	21
1 ST WEEK	Redox reactions. Nomenclature and physical properties of ethers.		
2 ND WEEK	Galvanic cells, standard electrode potential, emf of a cell. Methods of preparation and chemical properties of ethers.		
3 RD WEEK	Electrochemical series and its applications, Nomenclature, classification of amines.		
4 TH WEEK	Nernst equation and its application to galvanic cells. Methods of preparation and physical properties of amines		
5 TH WEEK	Relation between Gibbs energy change and Emf of a cell		cell.

JUNE

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Electrochemistry, Ether, Nitrogen Containing Compounds(Continued) Carboxylic Acids.		7+5	18
1 ST WEEK	Electrolytic cell and qualitative aspect of electrolysis. Identification of primary, secondary and tertiary amines.		
2 ND WEEK	Faraday's laws of electrolysis (with numerical), Primary and secondary cells and corrosion of metals. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.		
3 RD WEEK	Electrolytic conductance, specific and molarconductivity, variation		
4 TH WEEK	H WEEK Mid – Term Examination		
5 TH WEEK	Mid – Term Examination		

JULY

TOPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Electrochemistry And Carboxylic Acids	-	05

1 ST WEEK	Mid – Term Examination
2 ND WEEK	Mid – Term Examination
3 RD WEEK	Summer Break
4 TH WEEK	Cross Checking
5 TH WEEK	Kohlrausch's law and its application. Physical properties of carboxylic acids Assignment: Biomolecules. (soft copy of assignment, along with video lesson, will be provided to students

AUGUST

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Coordination	Chemistry, Aldehydes And Ketones	6+5	22
1st WEEK	Coordination compounds and complex ions. Classification and nomenclature of aldehyde and ketone		ne
2 ND WEEK	Ligands and its types, coordination number, coordination sphere, oxidation number, charge on complex ion and other important terms. Methods of preparation and physical properties of aldehydes and ketones.		
3 RD WEEK	IUPAC nomenclature and formula writing of complexes. Nucleophillic addition reactions of aldehyde and ketone.		
4 TH WEEK	Isomerism of coordination compounds, werner's, valence bond and crystal field theory. Oxidation and reduction of aldehyde and ketone, aldolcondensation, cannizzaro's reaction.		
5 TH WEEK	Importance of coordination compounds. Substitution reaction of the aryl group. Assignment: Polymers (soft copy of assignment, along with video lesson, will be provided to students)		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
P-Block, D&F B	Block Elements, Surface Chemistry	6+4	25
1st WEEK	Group 16 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties, dioxygen: Preparation, Properties and uses. D-Block: General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, atomicradii,ionic radii.		
2 ND WEEK	Classification of Oxides, Ozone, Sulphur -allotropic forms; compounds of Sulphur: Preparation Properties and uses of Sulphur-dioxide.		

	D-Block:colour,catalytic property, magnetic properties, interstitial
	compounds, alloy formation,
3 RD WEEK	Sulphuric Acid: industrial process of manufacture, properties and uses; Oxoacids of Sulphur (Structures only). Preparation and properties of K ₂ Cr ₂ O ₇ and KMnO ₄ . F-Block: Lanthanoids - Electronic configuration, oxidation states,
	chemical reactivity
4 TH WEEK	Group 17 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens, Preparation, properties and uses of Chlorine and Hydrochloric acid. F-Block:lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.
5 TH WEEK	Interhalogen compounds, Oxoacids of halogens (structures only). Adsorption - physisorption and chemisorption, factors affecting adsorption of gases on solids. Assignment: Metallurgy (soft copy of assignment, along with video lesson will be provided to students)

OCTOBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
P- Block(Contd	.) And Surface Chemistry(Contd.)	4	09
1 st WEEK	Group 18 Elements: General introduction, electronic configuration, occurrence. Catalysis, homogenous and heterogenous activity and selectivity; enzyme catalysis colloidal state distinction between true solutions,		
2 ND WEEK	Trends in physical and chemical properties and uses of noble gases. Colloids and suspension; lyophilic, lyophobic multi-molecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion - types of emulsions.		
3 RD WEEK	Post-Mid Examination		
4 TH WEEK	Post-Mid Examination		
5 TH WEEK	Post-Mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1ST WEEK	Revision		
2 ND WEEK	Revision		

3 RD WEEK	Preboard Examination
4 TH WEEK	Preboard Examination
5 TH WEEK	Preboard Examination

DECEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1 ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		
5 TH WEEK	External Practical Examination		

SUBJECT: MATHEMATICS (041)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
	Algebra		
Matrices and Determinants		10	24
2 ND WEEK	Introduction to matrices Types of matrices		
3 RD WEEK	Operations on matrices Concept of row and column operation Invertible matrices and proof of uniqueness of inverse		
4 TH WEEK	Determinant of square matrix up to 3x3 Properties of determinants Application of determinants in finding area of triangle Adjoint and inverse of square matrix		
5 TH WEEK	Consistency and inconsistency of system of linear equations. Solving system of linear equations by using inverse of matrix.		

APRIL

TOPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Relations and Functions Inverse trigonometric functions	08	24

	Continuity		
1 ST WEEK	Introduction of relations Types of Relations		
2 ND WEEK	introduction of functions one – one and onto functions, composite function, inverse of a function		
3 RD WEEK	Introduction of ITFs, Domain and range, principal Value branch. Graphs of ITFS		
4 TH WEEK	Elementary properties of inverse trigonometric functions		
5 TH WEEK	introduction of continuity and discontinuity.		

MAY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Continuity and Differentiablility Applications of derivates		35	24
1ST WEEK	Introduction of differentiability		
2 ND WEEK	Methods of differentiation Second order derivative		
3 RD WEEK	Rolle's and Lagrange's mean value theorem and their geometric interpretation		
4 TH WEEK	Rate of change of quantity Tangents and normal		
5 TH WEEK	Increasing and decreasing functions		

JUNE

TC	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Applications of Derivatives contd			24
1 ST WEEK	Approximation Maxima and minima		
2 ND WEEK	Mathematical Activities: (i) Rolle's theorem (ii) Lagrange mean Maxima and minima		
3 RD WEEK	Mathematical Activity Maxima and minima		
4 TH WEEK	Mid – Term Examination		
5 TH WEEK	Mid – Term Examination		

JULY

TOPICS / CHAPTERS	WEIGHT-	TEACHING
TOPICS / CHAPTERS	AGE	PERIODS

	Integrals
1 ST WEEK	Mid – Term Examination
2 ND WEEK	Mid – Term Examination
3 RD WEEK	Summer Break
4 TH WEEK	Summer Break / Cross Checking
5 TH WEEK	Introduction to integrals

AUGUST

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Integrals contd Differential Equations			24
1st WEEK	Integration by substitution integration by partial fractions integration by parts		
2 ND WEEK	Definite integrals Definite integrals as a limit of sum, properties of definite integrals		
3 RD WEEK	Area under simple curves, Area between any two curves		
4 TH WEEK	Order and degree 4 TH WEEK General and particular solution Formation of differential equation		
5 TH WEEK Differential equation of variable separable type			

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Differ	rential Equations contd		
	Vectors	19	24
	inear programming	19	
Three	e Dimensional Geometry		
	Differential equation of Homogeneous type		
	Linear differential equations		
1st WEEK	Introduction of vectors		
	Direction ratio and direction cosine of vectors,		
	Types of vectors		
Product of vectors			
2 ND WEEK	(a) Dot product		
	(b) Vector Product		
	Introduction		
3 RD WEEK	Different types of linear programming		
	Graphical method		

	Feasible and infeasible solution
4 TH WEEK	Direction ratios and direction cosine of a line joining two point Cartesian and vector equation of a line Coplanar and skew lines Shortest Distance
5 TH WEEK	Plane Cartesian and vector equation of plane Angle between two (I) lines (ii) planes `(iii) line and plane Distance of a point from a plane

OCTOBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Probability 08 16		16	
1st WEEK	Conditional probability, Multiplication theorem of probability, Bayes theorem		
2 ND WEEK	Probability Distribution Mean and variance of random variable		
3 RD WEEK	Post-Mid Examination		
4 TH WEEK	Post-Mid Examination		
5 TH WEEK	Post-Mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1 ST WEEK	Revision.		
2 ND WEEK	Revision.		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	Preboard Examination		

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1 ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		

SUBJECT: BIOLOGY (044)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Reproduction in Organisms 14 40		40	
2 ND WEEK	Reproduction in organisms + sexual reproduction in angiosperms		
3 RD WEEK	Human reproduction+ sexual reproduction in angiosperms		
4 TH WEEK	Human reproduction+ sexual reproduction in angiosperms		
5 TH WEEK	Human reproduction+ sexual repr	oduction in angio	sperms

APRIL

TO	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Re	production +Genetics	18	42
1 ST WEEK	Human reproduction+ Sexual reproduction in angiosperms		sperms
2 ND WEEK	Human reproduction + Reproductive health		
3 RD WEEK	Reproductive health + Genetics one		
4 TH WEEK	Genetics one + Genetics two		
5 TH WEEK	Genetics one + Genetics two		

MAY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
	Genetics	18	42
1ST WEEK	Genetics one + Genetics two		
2 ND WEEK	Genetics one + Genetics two		
3 RD WEEK	Genetics one + Genetics two		
4 TH WEEK	Genetics one + Genetics two		
5 TH WEEK	Genetics one + Genetics two		

JUNE

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Biotechnology		10	20
1ST WEEK	1 ST WEEK Biotechnology principles		
2 ND WEEK	Biotechnology principles +biotechnology and applications		

3 RD WEEK	Biotechnology applications.
4 TH WEEK	Mid – Term Examination
5 TH WEEK	Mid – Term Examination

JULY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Revision		30	7
1 ST WEEK	Mid – Term Examination		
2 ND WEEK	Mid – Term Examination		
3 RD WEEK	3 RD WEEK Summer Break		
4 TH WEEK	Summer Break/ Cross Checking		
5 TH WEEK	Revision + Questions from NCERT	Ţ.	

AUGUST

TC	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Ecology		14	30
1st WEEK	Organisms and population +ecosystem		
2 ND WEEK	Organisms and population +ecosystem		
3 RD WEEK	Biodiversity + environmental issues		
4 TH WEEK	Biodiversity + environmental issues.		
5 TH WEEK	EK Biodiversity + environmental issues.		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Biology in	Human Welfare + Evolution	14	30
1st WEEK	Human health + evolution		
2 ND WEEK	Human health + evolution		
3 RD WEEK	Human health + evolution		
4 TH WEEK	Microbes + food production		
5 TH WEEK	Microbes + food production		

OCTOBER

TOPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS

1st WEEK	Revision.
2 ND WEEK	Revision
3 RD WEEK	Post-Mid Examination
4 TH WEEK	Post-Mid Examination
5 TH WEEK	Post-Mid Examination

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1 ST WEEK	Revision.		
2 ND WEEK	Revision.		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	Preboard Examination		

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	Winter Break		

SUBJECT: COMPUTER SCIENCE (083)

MARCH

Т	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
	Computer Networks	10	25
2 ND WEEK	Network, Need of network. Types of networks Internet and WWW Client/Server introduction Wired and Wireless Networks		
3 RD WEEK	Cloud introduction Private vs Public Cloud IoT introduction Networking Devices		
4 TH WEEK	Network stack: Amplitude and free Collision in wireless networks Error checking	quency modulatior	1.
5 TH WEEK	IP Addressing (IPv4 and IPv6) MAC Address Concept of routing Routing table		

APRIL

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Com	puter Networks Contdd.		
Programming	g And Computational Thinking-2	30	70
	Network Protocols		
1 ST WEEK	TCP (Basic idea of retransmission))	
1 WEEK	IP protocol		
	2G, 3G, 4G, Wi-Fi		
	DNS		
	URL		
	HTTP		
2 ND WEEK	FTP		
2" WEEK	SCP		
	SSH		
	POP/IMAP/SMTP		
	VoIP/NFC		
	Secure Communication		
2RD WEELS	Encryption		
3 RD WEEK	HTTPS		
	Basic Network tools		

4 TH WEEK	Programming and Computational Thinking-2 Revision of Python Basics
5 TH WEEK	Function Parameterized and non-parameterized functions Variable Scope (local and Global Variable)

MAY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Programming And Computational Thinking-2 Contd			
1 ST WEEK	Functions with default arguments Passing lists to a function Functions returning values Library functions (mathematical/st	tring/random)	
2 ND WEEK	Python libraries Create and import python libraries. Recursion Simple programs using recursion		
3 RD WEEK	Factorial using recursion Fibonacci series, Binary search using recursion		
4 TH WEEK	Files Text file vs Binary file Open and Closing a file Read, write and Append to a file.		
5 TH WEEK	Standard input, output and error streams. Relative and Absolute paths.		

JUNE

TC	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Programming	And Computational Thinking-2		
	Contd		
1 ST WEEK	Time Complexity		
1 WEEK	Calculating the time complexity of various programs.		
Data Visualization			
	Concept of Matplotlib library		
2 ND WEEK	PyPlot module		
	Concept of charts (Bar chart/Pie chart/Line chart)		
	Data visualization using line chart/bar chart/pie chart		
3 RD WEEK	Lists and List operations		
4 TH WEEK	Mid – Term Examination		
5 TH WEEK	Mid – Term Examination		

JULY

то	PICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Programming .	Programming And Computational Thinking-2		
	Contd		
1 ST WEEK	Mid – Term Examination		
2 ND WEEK	Mid – Term Examination		
3 RD WEEK	Summer Break		
4 TH WEEK	Summer Break/ Cross Checking		
5 TH WEEK	Stack and Queue		

AUGUST

TO	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
L	Data Management - 2		30
1st WEEK	Revision of SQL queries		
2 ND WEEK	Where, having, group by and order by clause Interfacing python with MySQL		
3 RD WEEK	Django introduction Web framework		
4 TH WEEK	Django Architecture How to install Django and its virtu Django GET and POST methods Simple web applications using dja		
5 TH WEEK	Writing on to flat file. Writing on to CSV file.		

SEPTEMBER

T	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Society, Law And Ethics-2		10	5
	Project Work		
1 st WEEK	Intellectual property rights (plagia Licensing. Privacy laws, frauds Cyber crimes Cyber Forensics Technology and Society E-Waste Management Identity theft, unique id's and Bion Gender and Disability issues	ŭ ŭ	s management,
2 ND WEEK	Project based of python and Data Management		

3 RD WEEK	Project based of python and Data Management
4 TH WEEK	Project based of python and Data Management
5 TH WEEK	Project based of python and Data Management

OCTOBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
PROJECT WORK			
1st WEEK	Project based of python and Data Management		
2 ND WEEK	Project based of python and Data Management		
3 RD WEEK	Post-Mid Examination		
4 TH WEEK	Post-Mid Examination		
5 TH WEEK	Post-Mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1ST WEEK	Project based of python and Data Management		
2 ND WEEK	Project based of python and Data Management		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK Preboard Examination			

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		

SUBJECT: ENGINEERING GRAPHICS (046)

MARCH

TOI	PICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
Isometric Projections of Solids		25	50
2 ND WEEK	Construction of isometric scale showing main divisions of 10mm and smaller divisions of 1mm, also showing the leading angles. Drawing helping view/such as triangles, pentagon, hexagon, etc., using isometric scale.		
3 RD WEEK	Isometric projection of prisms		
4 TH WEEK	Isometric projection of pyramids		
5 TH WEEK	Isometric projection of frustum of pyramids		

APRIL

TO	PICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
Isometric Projections of Solids 25		50	
1 ST WEEK	Isometric projection of cylinder, cone, spheres and hemispheres.		
2 ND WEEK	Isomeric Projection of Combination of Solids		
3 RD WEEK	Isomeric Projection of Combination of Solids		
4 TH WEEK	Isomeric Projection of Combination of Solids		
5 TH WEEK	Isomeric Projection of Combination of Solids		

MAY

ТО	PICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
Machine Drawing (Assembly drawings and Dis-Assembly drawings)		45	118
			
1ST WEEK	Bearings (Open Bearing)		
2 ND WEEK	Bearings (Bushed Bearing)		
3 RD WEEK	Cotter-joints for circular-rods (socket and spigot joint)		
4 TH WEEK	Cotter-joints for round-rods (sleeve and cotter joint)		
5 TH WEEK	Cotter-joints for square rods (Gib and cotter-joint)		

JUNE

TOPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Machine Drawing	45	118

(Assembly drawings and Dis-Assembly drawings)		
1ST WEEK	Tie-rod and Pipe-joint (Turnbuckle)	
2 ND WEEK	Solid cast iron pulley	
3 RD WEEK	Introduction of threads: Standard profiles of screw threads - Square, Knuckle, B.S.W., Metric (external and internal)	
4 TH WEEK	Mid – Term Examination	
5 TH WEEK	Mid – Term Examination	

JULY

TO	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Machine Drawing (Drawing of Machine Parts)		45	118
1 ST WEEK	Mid – Term Examination		
2 ND WEEK	Mid – Term Examination		
3 RD WEEK	Summer Break		
4 TH WEEK	Summer Break/ Cross Checking		
5 TH WEEK	Introduction of threads: Standard profiles of screw threads - Square, Knuckle, B.S.W., Metric (external and internal)		

AUGUST

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Machine Drawing (Drawing of Machine Parts)		45	118
1st WEEK	Nuts (Square and Hexagonal);		
2 ND WEEK	Bolts (Square, Hexagonal, Tee and Hook)		
3 RD WEEK	Plain washer, combination of nut and bolt with or without washer for assembling two parts together		
4 TH WEEK	Single riveted lap joint with standard dimensions.		
5 TH WEEK	K Industrial Visit (Two)		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Machine Drawing		45	118
1st WEEK	Unprotected Flange Coupling		
2 ND WEEK	Protected Flange Coupling		
3 RD WEEK	Flange pipe joint		

4 TH WEEK	Free-hand sketches
5 TH WEEK	Conventional representation of external and internal threads

OCTOBER

TO	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Machine Drawing		45	118
1st WEEK	Practicals		
2 ND WEEK	Computer Aided Design (CAD) – Project		
3 RD WEEK	Computer Aided Design (CAD) – Project		
4 TH WEEK	Computer Aided Design (CAD) – Project		
5 TH WEEK	Computer Aided Design (CAD) – Project		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Machine Drawing		45	118
1ST WEEK	Computer Aided Design (CAD) – Project		
2 ND WEEK	Computer Aided Design (CAD) – Project		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	Preboard Examination		

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
1 ST WEEK	External Practical Exami	nation	
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Exami	nation	
4 TH WEEK	External Practical Exami	nation	

SUBJECT: PSYCHOLOGY (037)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter 1: Vario	ations in Psychological Attributes	9	21
2 ND WEEK	Introduction to Variations in Psychological Attributes. Individual Differences in Human functioning. Assessment of Psychological Attributes. Intelligence.		
3 RD WEEK	Psychometric Theories of Intelligence. Information Processing Theory. Theory of Multiple Intelligences.		
4 TH WEEK	Triarchic Theory of Intelligence. PASS Model of Intelligence. Individual differences in Intelligence.		
5 TH WEEK	Culture and Intelligence.		

APRIL

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter 2: Self & Personality		10	26
1 ST WEEK	Emotional Intelligence. Special Abilities. Creativity. Introduction to Self and Personality. Concept of Self. Cognitive and Behavioural aspects of Self.		
2 ND WEEK	Culture and Self. Concept of Personality. Type Approach to the study of personality. Trait Approach. Psychodynamic Approach.		
3 RD WEEK	Behavioural Approach. Cultural Approach. Humanistic Approach. Assessment of Personality. Self-Report Measures.		
4 TH WEEK	Projective Techniques. Behavioural Techniques. Introduction to Meeting Life Challenges.		
5 TH WEEK	Nature of Stress.		

MAY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter 3: Mee	ting Life Challenges	7	26
1 ST WEEK	Types and Sources of Stress. Effects of Stress on Psychological Health. Stress and Health. General Adaptation Syndrome.		
2 ND WEEK	Stress and Immune System. Lifestyle. Coping with Stress. Stress Management Techniques.		
3 RD WEEK	Promoting positive health and well-being. Introduction to Psychological Disorders. Concepts of Abnormality and Psychological Disorders. Historical Background.		
4 TH WEEK	Classification of Psychological Disorders. Factors underlying abnormal behaviour. Major Psychological Disorders.		
5 TH WEEK	Anxiety Disorder.		

JUNE

то	PICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter 4: Psych	hological Disorders	10	18
1 ST WEEK	Obsessive-Compulsive and related Disorders. Trauma and Stressor-related Disorders. Somatic Symptom and related Disorders. Dissociative Disorders.		
2 ND WEEK	Depressive Disorder. Bipolar and related Disorders. Schizophrenia spectrum and other Psychotic Disorders. Neurodevelopmental Disorders.		
3RD WEEK	Disruptive, Impulse-control and Conduct Disorders. Feeding and Eating Disorders.		
4 TH WEEK	Mid – Term Examination		
5 TH WEEK	Mid – Term Examination		

JULY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Contd		0	0
1 ST WEEK	Mid – Term Examination		

2 ND WEEK	Mid – Term Examination
3 RD WEEK	Summer Break
4 TH WEEK	Cross Checking
5 TH WEEK	Substance related and Addictive Disorders. Practicals

AUGUST

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
Chapter 5: Ther	rapeutic Approaches.	7	24
1st WEEK	Nature and process of Psychotherapy. Therapeutic relationship. Types of Therapy. Psychodynamic therapy.		
2 ND WEEK	Behaviour Therapy. Cognitive Therapy. Humanistic-existential Therapy. Bio-medical Therapy. Alternative Therapies.		
3 RD WEEK	Rehabilitation of the Mentally ill. Introduction to Attitude and Social Cognition. Explaining Social Behaviour. Nature and Components of Attitudes.		
4 TH WEEK	Attitude Formation and Change. Prejudice and Discrimination. Strategies for handling Prejudice.		
5 TH WEEK	Social Cognition.		

SEPTEMBER

TC	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter 6: Attit	ude and Social Cognition	8+7	26
Chapter 7: Soci	al Influences & Group Processes	0+7	20
1st WEEK	Schemas and Stereotypes. Impression formation and Attribution. Attribution of Causality. Behaviour in presence of others. Pro-Social Behaviour.		
2 ND WEEK	Factors affecting Pro-social Behaviour. Introduction to Social Influences and Group Processes. Nature and formation of Groups. Types of Groups. Project Work		
3 RD WEEK	Influence of Group on Individual E	Behaviour.	

	Social Loafing.
	Group Polarisation.
	Confirmity, Compliance and Obedience.
	Cooperation and Competition.
	Social Identity.
4 TH WEEK	Intergroup Conflict: Nature and Causes.
4 WEEK	Conflict Resolution Strategies.
	Psychology and Life: Introduction.
5 TH WEEK	Human-Environment Relationship.

OCTOBER

TC	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
Chapter 8: Psyc	hology & Life	6+6	12
Chapter 9: Deve	eloping Psychological Skills	0+0	12
1st WEEK	Environmental Effects on Human Behaviour. Promoting Pro-environmental Behaviour. Psychology and Social Concerns. Practicals		
2 ND WEEK	Developing Psychological Skills. General Skills. Observational Skills. Specific Skills. Interviewing Skills. Counselling Skills.		
3 RD WEEK	Post-Mid Examination		
4 TH WEEK	Post-Mid Examination		
5 TH WEEK	Post-Mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
	Revision	30	12
1 ST WEEK	Revision		
2 ND WEEK	Revision		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	Preboard Examination		

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
		0	
1ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		

SUBJECT: PAINTING (049)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
70/30 08		08	
2 ND WEEK	Practicals :Nature and Object Study Theory: Fundamentals of Art		
3 RD WEEK	Practicals :Nature and Object Study Theory: Fundamentals of Art		
4 TH WEEK	Practicals Nature and Object Study		
5 TH WEEK Practicals: Nature and Object Study Theory: Introduction of Indian Miniature Paintings.			

APRIL

111 1111			
TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	Practicals :Nature and Object Stud		
1 WEEK	Theory: Introduction of Indian Min	niature Paintings.	
2 ND WEEK	2ND WEEK Practicals: Quick Life Sketching		
2 WEEK	Theory: The Rajasthani School of Miniature Paintings		
3 RD WEEK	Practicals : Quick Life Sketching		
3 WEEK	Theory: The Rajasthani School of	Miniature Paintin	gs
ATH WEEK	Practicals : Quick Life Sketching		
4 TH WEEK Theory: The Rajasthani School of M		Miniature Paintin	gs
5 TH WEEK	Practicals : Quick Life Sketching		
5 WEEK	Theory: The Rajasthani School of Miniature Paintings		

MAY

TC	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
		70/30	08
1ST WEEK	Practicals : Colour Composition Theory: The Pahari School of art		
2 ND WEEK	Practicals : Colour Composition Theory: The Pahari School of art		
3 RD WEEK	Practicals : Colour Composition Theory: The Pahari School of art		
4 TH WEEK	Practicals : Colour Composition Theory: The Pahari School of art		
5 TH WEEK	Practicals :Still life Theory: Mughal School of Miniatu	re art	

JUNE

T	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	Practicals :Still life Theory: Mughal School of Miniature art		
2 ND WEEK	Practicals :Still life Theory: Mughal School of Miniature art		
3 RD WEEK	Practicals :Still life Theory: Mughal School of Miniature art		
4 TH WEEK	Mid – Term Examination		
5 TH WEEK	Mid – Term Examination		

JULY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	Mid – Term Examination		
2 ND WEEK	Mid – Term Examination		
3 RD WEEK	Summer Break		
4 TH WEEK	Summer Break/ Cross Checking		
5 TH WEEK	Practicals :Outdoor Sketching Theory: The Deccan School of Painting		

AUGUST

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
		70/30	08
1st WEEK	Practicals : Outdoor Sketching Theory: The Deccan School of Painting		
2 ND WEEK	Practicals :Outdoor Sketching Theory: The Deccan School of Painting		
3 RD WEEK	Practicals :Outdoor Sketching Theory: Evolution of Indian National Flag.		
4 TH WEEK	Practicals : Outdoor Sketching Theory: Evolution of Indian National Flag.		
5 TH WEEK	Practicals : Outdoor Sketching Theory: The Bengal School of Pair	nting	

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
			08
1st WEEK	Practicals: Outdoor Sketching Theory: The Bengal School of Painting		
2 ND WEEK	Practicals: Outdoor Sketching Theory: SLIDE STUDY OF SOME Bengali School of art.		
3 RD WEEK	Practicals :Colour Figurative Composition Theory: SLIDE STUDY OF SOME Bengali School of art.		
4 TH WEEK	Practicals : Colour Figurative Composition Theory: Contribution of Indian Artists in the struggle for National Freedom Movement		
5 TH WEEK	Practicals : Colour Figurative Con Theory: Contribution of Indian Artists in the struggle fo	•	m Movement

OCTOBER

ТС	OPICS / CHAPTERS	WEIGHT- AGE	TEACHING PERIODS
70/30 08		08	
1st WEEK	Practicals: Canvas Painting Theory: Modern trends in Indian art		
2 ND WEEK	Practicals: Canvas Painting Theory: Paintings and Sculptures of the Contemporary Modern Indian Artists		
3 RD WEEK	Post-Mid Examination		
4 TH WEEK	Post-Mid Examination		
5 TH WEEK	Post-Mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
			08
1 ST WEEK	Practicals: Final preparations of FINE ARTS PORTFOLIO Theory: Paintings and Sculptures of the Contemporary Modern Indian Artists		
2 ND WEEK	Revision.		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	Preboard Examination		

DECEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
		70/30	08
1ST WEEK	Final External examination		
2 ND WEEK	Final External examination		
3 RD WEEK	Final External examination		
4 TH WEEK	Final External examination		

SUBJECT: PHYSICAL EDUCATION (048)

MARCH

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
PLANNING IN SPORTS		8	10
2 ND WEEK	Meaning and objectives of planning. Various committee and its responsibilities.		
3 RD WEEK	Tournament knockout, league and combination. Procedure to draw fixtures (bye and seeding)		
4 TH WEEK	Intramural and extramural meaning objective and its significance.		
5 TH WEEK	Specific sports programme, sports day health run, run for fun, run for unity.		

APRIL

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
SPO	RTS AND NUTRITION.	6	4
YO	GA AND LIFESTYLE.	5	4
1 ST WEEK	Balanced diet and nutrition: micro	and macro nutrie	ents.
1 WEEK	Nutritive and non nutritive compor	nents of diet.	
2 ND WEEK	Eating for diet control, a healthy weight the pitfalls of dieting		
2 WEEK	Food intolerance and food myths.		
3 RD WEEK	Sports nutrition and its effect on performance.		
3 WEEK	Food supplements for children.		
	Asanas as preventive measures.		
4 TH WEEK	Obesity procedure, benefits and contraindications for Vajrasana,		
	Hastasana, Trikonasana, Ardhmatsyendrasan.		
5 TH WEEK	Diabetes procedure benefits and contraindications for bhujangasana,		
3 WEEK	paschimottasana,		

MAY

TOPICS / CHAPTERS	WEIGHT-	TEACHING
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		AGE	PERIODS
YOGA AND LIFESTYLE (Contd.)			
PHYSICAL	EDUCATION AND SPORTS FOR		
L	DIFFERENTLY ABLED.	6	5
1 ST WEEK	Asthma procedure benefits and contraindications for sukhasana, chakrasana, gomukhasana, paratasana, bhujangasana, paschimottasana, matsyasana.		
2 ND WEEK	Hypertension: Tadasana, Vajrasana, pavanmuktasana, Back pain: Tadasanaardhmatsyendrasana, vakrasana, shalabhasana, bhujangasana.		
3 RD WEEK	PE Practicals (Athletics)		
4 TH WEEK	Concept of disability and disorder. Types of disability, its causes and nature (cognitive disability, intellectual disability, physical disability.)		
5 TH WEEK	Types of disorder: its causes and nature (ADHD, SPD,ASD, ODD,OCD)		

JUNE

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
PHYSICAL E	DUCATION AND SPORTS FOR		
DIFF	ERENTLY ABLED contd.		
1 ST WEEK	Disability etiquettes. Advantages of physical activities for children with special needs.		
2 ND WEEK	Strategies to make physical activities accessible for children with special need.		
3 RD WEEK	PE Practicals (Athletics)		
4 TH WEEK	PE Practicals (Athletics)		
5 TH WEEK	Mid – Term Examination		

JULY

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
MIDTERM EXAMINATION			1
1 ST WEEK	Mid – Term Examination		
2 ND WEEK	Mid – Term Examination		
3 RD WEEK	Summer Break		
4 TH WEEK	Summer Break/ Cross Checking		
5 TH WEEK	PE Practicals (Athletics)		

AUGUST

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
СНІ	LDREN AND SPORTS.	6	7
We	OMEN AND SPORTS.	5	5
1 st WEEK	Motor development and factors affecting it. Exercise guidelines at different stages of growth and development. Advantages and disadvantages of weight training.		
2 ND WEEK	Concept and advantages of correct posture. Causes of bad posture.		
3 RD WEEK	Common postural deformity, knock knee, flat foot, round shoulder, lordosis, kyphosis, bow legs, and scoliosis. Correct measures for postural deformities.		
4 TH WEEK	Sports performance of women in India. Special consideration(menarche, menstrual, dysfunction, pregnancy, menopause)		
5 TH WEEK	Female athletic triad (Anemia, osteoporosis, amenorrhea.)		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
TEST.	AND MEASUREMENT.	6	7
PHYS	SIOLOGY AND SPORTS.	5	5
1st WEEK	Computation of fat percentage. Slaughter- lohman children skin fold measurement. Measurement of muscular strength –kraus weber test. Motor fitness test. AAPHER. General motor fitness		
2 ND WEEK	Measurement of cardiovascular fitness. Computation of fitness index. Rikli and jones senior citizen fitness test. Chair stand test for lower body strength. Arm curl test		
3 RD WEEK	Chair sit and reach test for upper body strength. Eight foot up and go test for agility. Six minute walk test for aerobic endurance.		
4 TH WEEK	Gender difference in physical and physiological parameters. Physiological factors determining component of physical fitness. Effect of exercise on cardiovascular system.		
5 TH WEEK	Effect of exercise on respiratory system. Effect of exercise on muscular system.		

OCTOBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
	SPORTS MEDICINE.	5	4
KINESIOLOG	<i>GY BIOMECHANICS AND SPORTS.</i>	7	7
1st WEEK	Concept aim and scope of sports medicine. Sports injuries classification causes and prevention. First Aid aim and objective. Management of injuries. Projectile and factors affecting projectile trajectory. Newton's laws of motion and their application in sports.		
2 ND WEEK	Aerodynamics principles Frication and sports. Introduction to Axes and plane. Types of movements (flexion, extension, abduction and adduction) Major muscle involved in running jumping and throwing.		
3 RD WEEK	Post-Mid Examination		
4 TH WEEK	Post-Mid Examination		
5 TH WEEK	Post-Mid Examination		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
PSYC.	HOLOGY AND SPORTS.	5	4
TI	RAINING IN SPORTS	6	6
1 ST WEEK	Understanding stress and coping strategies Personality its definition and types. Motivation its type and techniques. Self esteem and body image. Psychological benefits of exercise. Meaning concept and types of aggressions in sports.		
2 ND WEEK	Strength definition types and methods Endurance definition types and methods. Speed definition types and methods		
3 RD WEEK	Preboard Examination		
4 TH WEEK	Preboard Examination		
5 TH WEEK	K Preboard Examination		

TOPICS / CHAPTERS		WEIGHT- AGE	TEACHING PERIODS
1ST WEEK	External Practical Examination		
2 ND WEEK	External Practical Examination		
3 RD WEEK	External Practical Examination		
4 TH WEEK	External Practical Examination		