

ST. XAVIER'S SR. SEC. CO-ED SCHOOL

SYLLABUS 2023-24

CLASS - XII

SUBJECT - ENGLISH

SNO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATE AND SYLLABUS
1	APRIL	FLAMINGO: L1 The Last Lesson L2 Lost Spring P1 My Mother at Sixty six VISTAS: L1 The Third Level WRITING: Notice	
2	JUNE	VISTAS: L2 The Tiger King WRITING: 1 Invitation 2 Reply to Invitation	
3	JULY	FLAMINGO: L3 Deep Water L4 The Rattrap P3 Keeping Quiet VISTAS: L3 Journey to the end of the Earth WRITING: 1 Invitation 2 Reply to Invitation 3 Job Application READING : Comprehension Practice	17-22 JULY PT1 FLAMINGO: L1 - L3; P1 VISTAS: L1,L2 WRITING: Notice Invitation& Reply to Invitation READING: Unseen passage
4	AUGUST	FLAMINGO: L5 Indigo L6 Poets and Pancakes P4 A Thing of Beauty P5 A Roadside Stand VISTAS: L4 The Enemy	

		L6 On the face of it WRITING: 1 Job Application 2 Report Writing	
5	SEPTEMBER	FLAMINGO: L7 The Interview VISTAS: L8 Memories of Childhood	18-30 SEPTEMBER PT2 FLAMINGO: L1 - L6; P1,P3,P4,P5 VISTAS:L1 - L4
6	OCTOBER	FLAMINGO: L8 Going Places P6 Aunt Jennifer's Tigers WRITING: Article Writing Report Writing	WRITING:1 Notice 2 Invitation& Reply to Invitation 3 Job Application 4 Report Writing
7	NOVEMBER	WRITING: 1 Notice 2 Invitation 3 Reply to Invitation 4 Letter to Editor 5 Job Application 6 Article Writing 7 Report Writing READING: Unseen Passages	READING: Unseen passages
8	DECEMBER	REVISION	11- 22 DECEMBER PREBOARD 1 Complete syllabus
9	JANUARY	ASSESSMENT OF LISTENING&SPEAKING SKILL	15-25 JANUARY PREBOARD 2 Complete syllabus

SUBJECT - HINDI

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	आरोह :- गद्य : भक्तिन, बाजार दर्शन पद्य : एक गीत, पतंग वितान :- सिल्वर वेडिंग, जूझ अभिव्यक्ति और माध्यम :- पत्रकारिता, समाचार	
2	JUNE	आरोह :- कविता के बहाने , काले मेघा पानी दे व्याकरण :- पत्र (औपचारिक/ अनौपचारिक)	
3	JULY	आरोह :- कैमरे में बंद अपाहिज , उषा , पहलवान की ढोलक वितान :- अतीत में दबे पाव अभिव्यक्ति और माध्यम :- संपादकीय	PT -1 , 17th-22nd JULY अपठित गद्य , पद्य अभिव्यक्ति और माध्यम - 3,4,5 एक गीत, बाजार दर्शन, सिल्वर वेडिंग
4	AUGUST	आरोह :- शिरीष के फूल , बादलराग अभिव्यक्ति और माध्यम :- अनुच्छेद, इंटरनेट, रेडियो ,टेलीविजन	
5	SEPTEMBER	REVISION	TERM - 1 , 18th-30th SEPTEMBER गद्य :- 12,13,14 पद्य :- 2,3,4 वितान :- 1,2 अभिव्यक्ति और माध्यम :- पाठ:- संपादकीय, जनसंचार माध्यम, इंटरनेट, रेडियो, टेलीविजन, पत्र लेखन, अनुच्छेद लेखन

			अपठित एवं पठित गद्यांश एवं पद्यांश पत्रकारिता समाचार लेखन।
6	OCTOBER	आरोह :- रुबाइयां ,उमाशंकर जोशी	
7	NOVEMBER	अपठित गद्य ,पद्य आरोह :- श्रम विभाजन	
8	DECEMBER	REVISION	PRE-BOARD 1 , 11th-22nd DECEMBER संपूर्ण पाठ्यक्रम
9	JANUARY	REVISION	PRE-BOARD 2 , 15th-25th JANUARY संपूर्ण पाठ्यक्रम
10	FEBRUARY		FINAL BOARD EXAM

SUBJECT - PAINTING (049)			
S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	CHAPTER NO. 1 THE ORIGIN AND DEVELOPMENT OF MINIATURE PAINTING IN INDIA	
		CHAPTER NO. 2 THE RAJASTHANI SCHOOL OF MINIATURE PAINTING	
		CHAPTER NO. 3 THE PAHARI SCHOOL OF MINIATURE PAINTING	
		STILL LIFE WITH NATURE OBJECT (PENCIL SHADING)	
2	JUNE	STILL LIFE WITH CONE USING PENCIL SHADING	
		STILL WITH CONE USING COLOUR	
3	JULY	STILL LIFE WITH POT & BOTTLE	PT-1 EXAM DATE- 17-07-23 TO 22-07-23 CHAPTER NO 1 TO 3
		STILL LIFE WITH BUCKET	
		CHAPTER NO. 4 THE MUGHAL SCHOOL OF MINIATURE PAINTING	
		CHAPTER NO. 5 THE DECCAN SCHOOL OF MINIATURE PAINTING	

4	AUG	CHAPTER NO. 6 INTRODUCTION TO THE BENGAL SCHOOL OF PAINTING	
		HUMAN FIGURE STUDY AND PAINTING COMPOSITION WITH HUMAN FIGURE	
5	SEPT	STILL LIFE	
		PAINTING COMPOSITION	PT-2 EXAM DATE- 18-09-23 TO 30-09-23
			THEORY - CHAPTER NO. 1 TO 6
			PRACTICAL -1 STILL LIFE WITH NATURE OBJECT
			PRACTICAL - 2 PAINTING COMPOSITION WITH HUMAN FIGURE
			Topic - ANY ONE OF GIVEN BELOW
			1. Any Daily Life Scene.
			2. Any Festival Scene
			3. Market Scene.
			4. Any sports activity
	5. Any Historical Event		
6	OCT	CHAPTER NO.7 STUDY OF THE PAINTINGS OF THE BENGAL SCHOOL	
		CHAPTER NO. 8 CONTRIBUTION OF INDIAN ARTISTS IN THE STRUGGLE FOR NAT. F. M.	
		CHAPTER NO. 9 EVOLUTION OF THE INDIAN NATIONAL FLAG	
		CHAPTER NO. 10 MODERN TRENDS IN INDIAN ART	
7	NOV	CHAPTER NO. 11 PAINTING OF THE CONTEMPORARY (MODERN) INDIAN ARTISTS	
		CHAPTER NO. 12 GRAPHIC PRINTS OF THE CONTEMPORARY (MODERN) INDIAN ARTISTS	
		CHAPTER NO. 13 SCULPTURE OF THE CONTEMPORARY (MODERN) INDIAN ARTISTS	
		STILL LIFE WITH 3 OBJECTS	
8	DEC	REVISION	PRE BOARD-1 DATE- 11-12-23 TO 22-12-23
			THEORY - CHAPTER NO. 1 TO 13
			PRACTICAL 1 - STILL LIFE WITH NATURE OBJECT

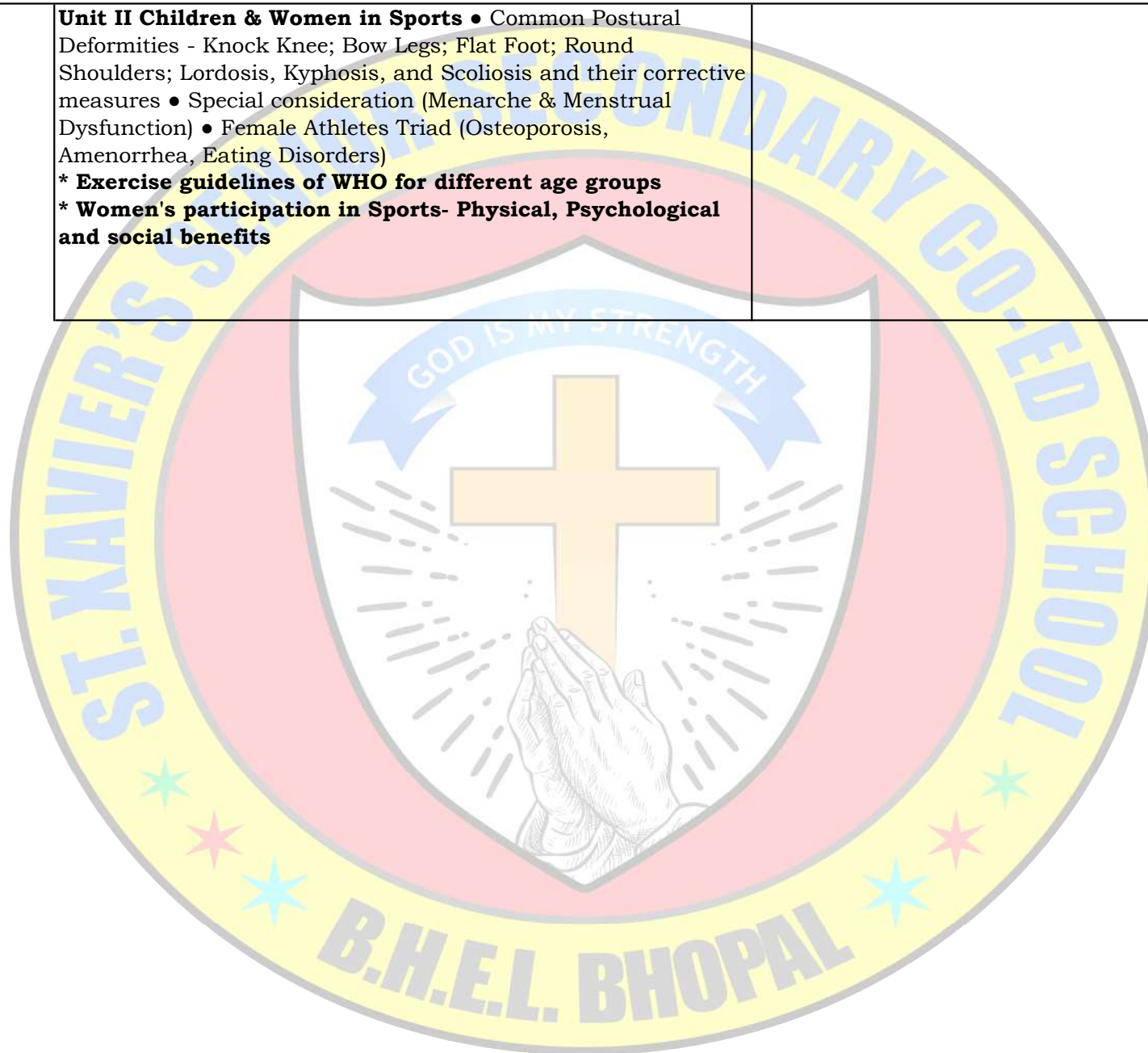
		Binaryfiles		
		CSV files		
5	SEPTEMBER	Program Efficiency	PT2 Sept Opening and Closing Files Files Program Efficiency	18th Sept to 30th Data File Handling Types of Text / Binary / CSV Algorithm analysis
		In terms of time		
		On the basis of number of operations		
		Algorithm analysis		
6	OCTOBER	Data Structures in python.		
		stacks :		
		Creating a Stack		
		Adding elements into a stack		
		Checking for empty stack		
		Deleting elements from the stack		
		Traversing Stack elements		
7	NOVEMBER	SQL		
		Functions in SQL		
		Sorting ,Having, Group by clause		
		Aggregate functions and conditions		
		Interface Python with SQL		
		Python-MySQL Connectivity		
		Computer Networks	Pre Board - 1	11th Dec to 22nd Dec
		Advantages		
		Types of Networks		

8	DECEMBER	Newtechnologies : Cloud computing	Syllabus of PT - 1 and Stcaks	Syllabus of PT - 2 Data Structures in Python SQL
		Network devices		
		Basic Network tools		
		Network Applications		
9	JANUARY	Revision	Pre Board - 2 Syllabus of Pre Board - 1 Networking	15th Jan to 25th Jan

SUBJECT Physical Education

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	Apr-23	<p>Unit I Management of Sporting Events • Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) • Various Committees & their Responsibilities (pre; during & post) • Fixtures and its Procedures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)</p> <p>* Tabular Method</p> <p>* Intramural & Extramural tournaments- Meaning, Objectives & Its Significance</p> <p>* Community sports program (Sports Day, Health run, Run for Fun, Run for Specific Cause & Run for Unity)</p>	

	<p>Unit II Children & Women in Sports • Common Postural Deformities - Knock Knee; Bow Legs; Flat Foot; Round Shoulders; Lordosis, Kyphosis, and Scoliosis and their corrective measures • Special consideration (Menarche & Menstrual Dysfunction) • Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)</p> <p>* Exercise guidelines of WHO for different age groups</p> <p>* Women's participation in Sports- Physical, Psychological and social benefits</p>	
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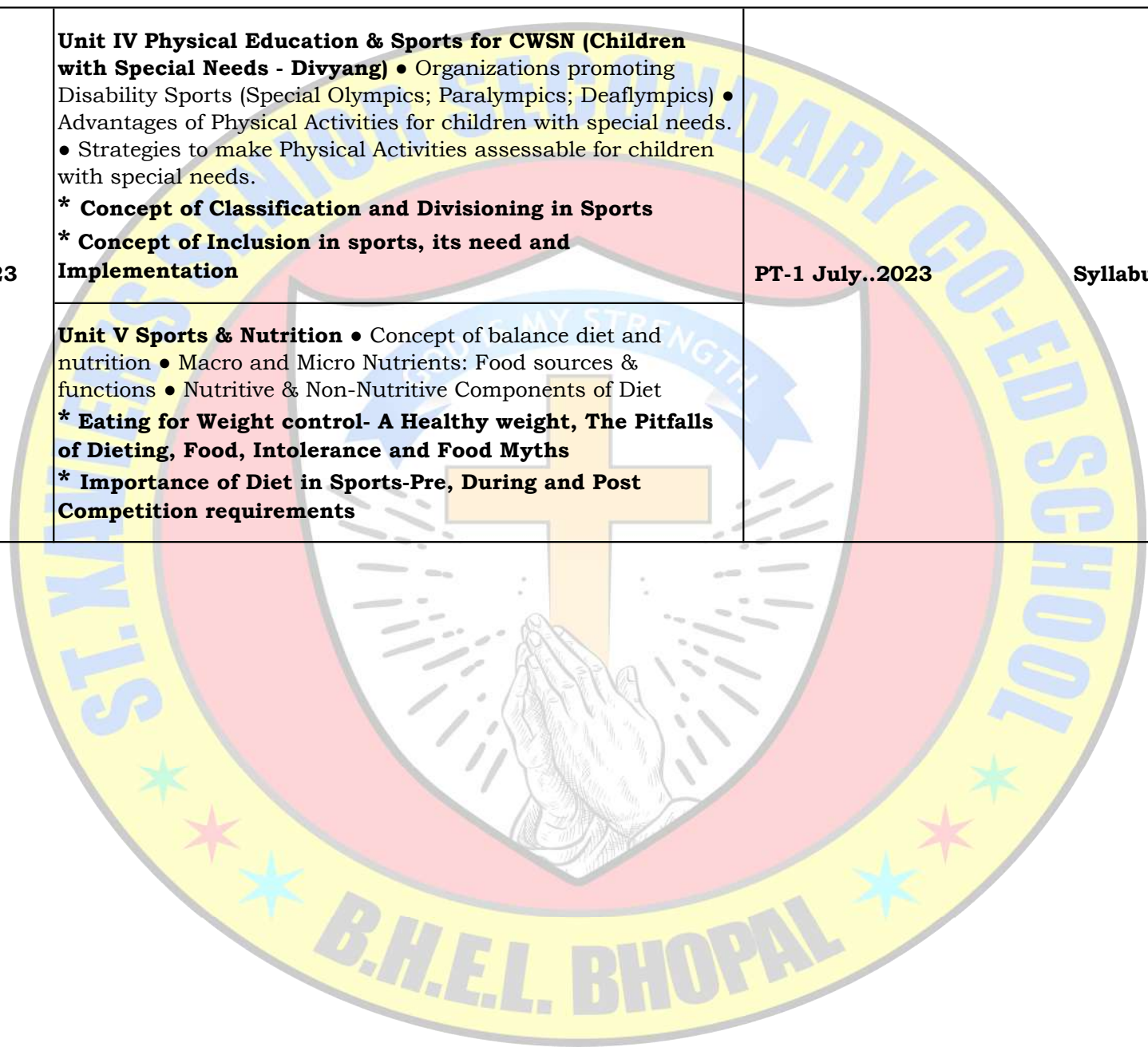
June-2023

Unit III Yoga as Preventive measure for Lifestyle Disease □
Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama. □ Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana, Paschimottanasana, Ardha-Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati. □ Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana Matsyaasana, Anuloma-Viloma. □ Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi shodhanapranayam, Sitlipranayam.

*** Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasana, Urdhwahastottanasana, Ardha-Chakrasana, Ushtrasana, Vakrasana, Sarala Matsyendrasana, Bhujangasana, Gomukhasana, Bhadrasana, Makarasana, Nadi Shodhana Pranayama**



3	July-2023	<p>Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang) • Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics) • Advantages of Physical Activities for children with special needs. • Strategies to make Physical Activities assessable for children with special needs.</p> <p>* Concept of Classification and Divisioning in Sports</p> <p>* Concept of Inclusion in sports, its need and Implementation</p> <hr/> <p>Unit V Sports & Nutrition • Concept of balance diet and nutrition • Macro and Micro Nutrients: Food sources & functions • Nutritive & Non-Nutritive Components of Diet</p> <p>* Eating for Weight control- A Healthy weight, The Pitfalls of Dieting, Food, Intolerance and Food Myths</p> <p>* Importance of Diet in Sports-Pre, During and Post Competition requirements</p>	<p>PT-1 July..2023</p> <p>Syllabus Unit 1, 2, 3</p>
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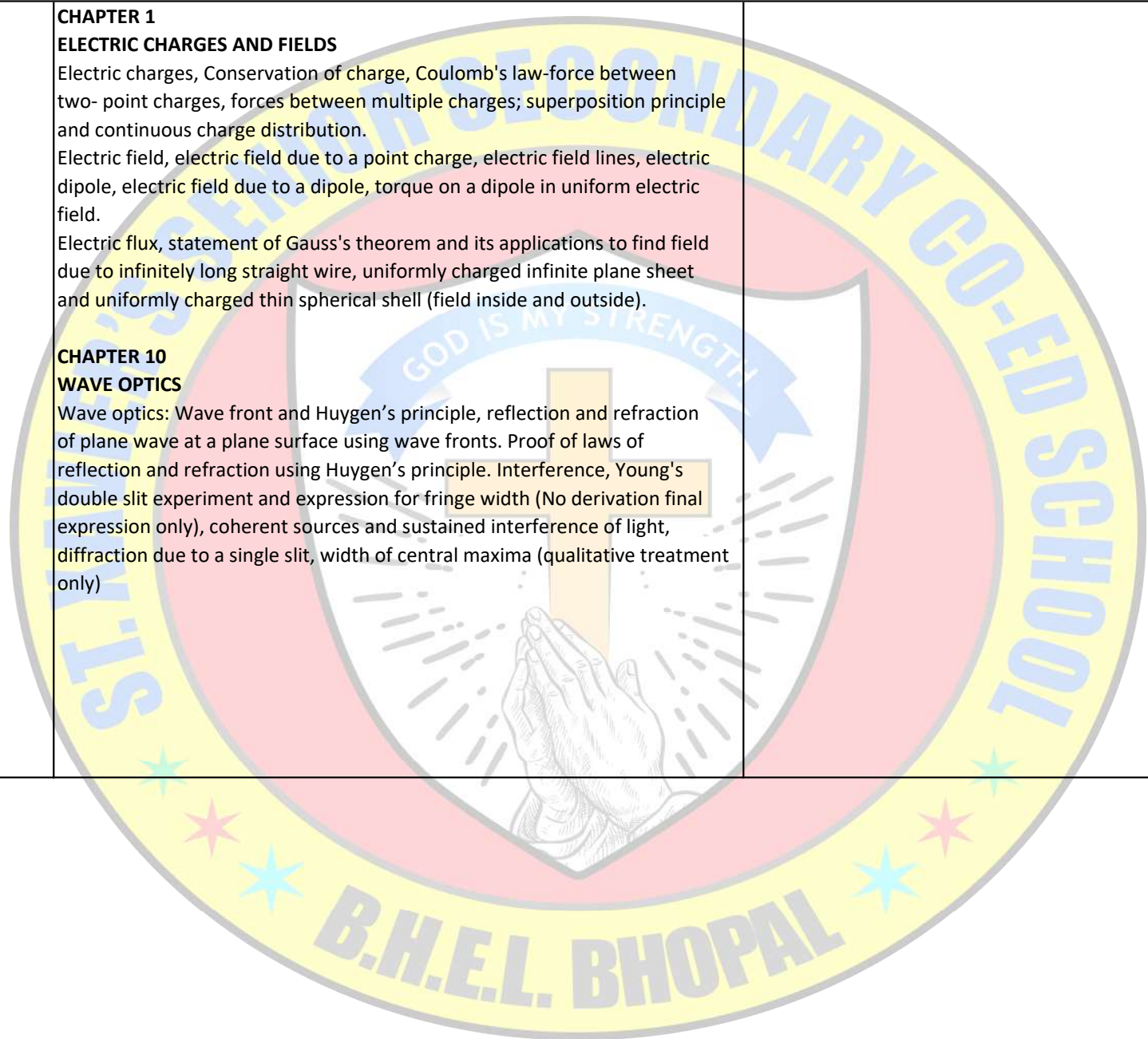
4	Aug.-2023	<p>Unit VI Test & Measurement in Sports • Fitness Test – SAI Khelo India Fitness Test in school: o Age group 5-8 yrs/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test o Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, Modified Push-Ups for girls). • Computing Basal Metabolic Rate (BMR) • Rikli & Jones - Senior Citizen Fitness Test I. Chair Stand Test for lower body strength II. Arm Curl Test for upper body strength III. Chair Sit & Reach Test for lower body flexibility IV. Back Scratch Test for upper body flexibility V. Eight Foot Up & Go Test for agility VI. Six Minute Walk Test for Aerobic Endurance</p> <p>* Measurement of cardio vascular fitness- Harvard Step Test- Duration of the Exercise in Seconds X 100/ 5.5 X Pulse count of 1-1.5 Min after Exercise</p> <p>* Johnson- Metheny Test of Motor Educability (frount Roll, Back Roll, Jumping Half-Turn, Jumping full Turn)</p>	
5	Sep.-2023	<p>Unit VII Physiology & Injuries in Sports • Physiological factors determining components of physical fitness • Effect of exercise on Muscular System • Effect of exercise on Cardio-Respiratory System • Sports injuries: Classification (Soft Tissue Injuries -Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted)</p> <p>* Physiological changes due to ageing</p>	<p>PT-2 Sep..2023 Syllabus Unit ,4, 5,6,7</p>
		<p>Unit VIII Biomechanics & Sports • Newton’s Law of Motion & its application in sports • Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports • Friction & Sports • Projectile in Sports</p> <p>* Types of Lever and their application in Sports</p>	

6	Oct.-2023	Unit IX Psychology & Sports • Personality; its definition & types (Jung Classification & Big Five Theory) • Meaning, Concept & Types of Aggressions in Sports • Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self Talk, Goal Setting * Motivation, its type & techniques * Exercise Adherence: Reaasons, Benefits & Strategies for Enhancing it	
7	Nov.-2023	Unit X Training in Sports • Concept of Talent Identification and Talent Development in Sports • Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle. • Types & Method to Develop – Strength, Endurance and Speed • Types & Method to Develop – Flexibility and Coordinative Ability * Circuit Training- Introduction & its importance	
8	Dec.-2023	REVISION & TEST	Pre Board -1 Dec.18 to 22.12.2023 Syllabus Unit 1,2, 3,4, 5,6,7, 8, 9 & 10
9	Jan-2024	REVISION & TEST	Pre Board -2 Jan.16 to 25.01.2024 Syllabus Unit 1,2, 3,4, 5,6,7, 8, 9 & 10

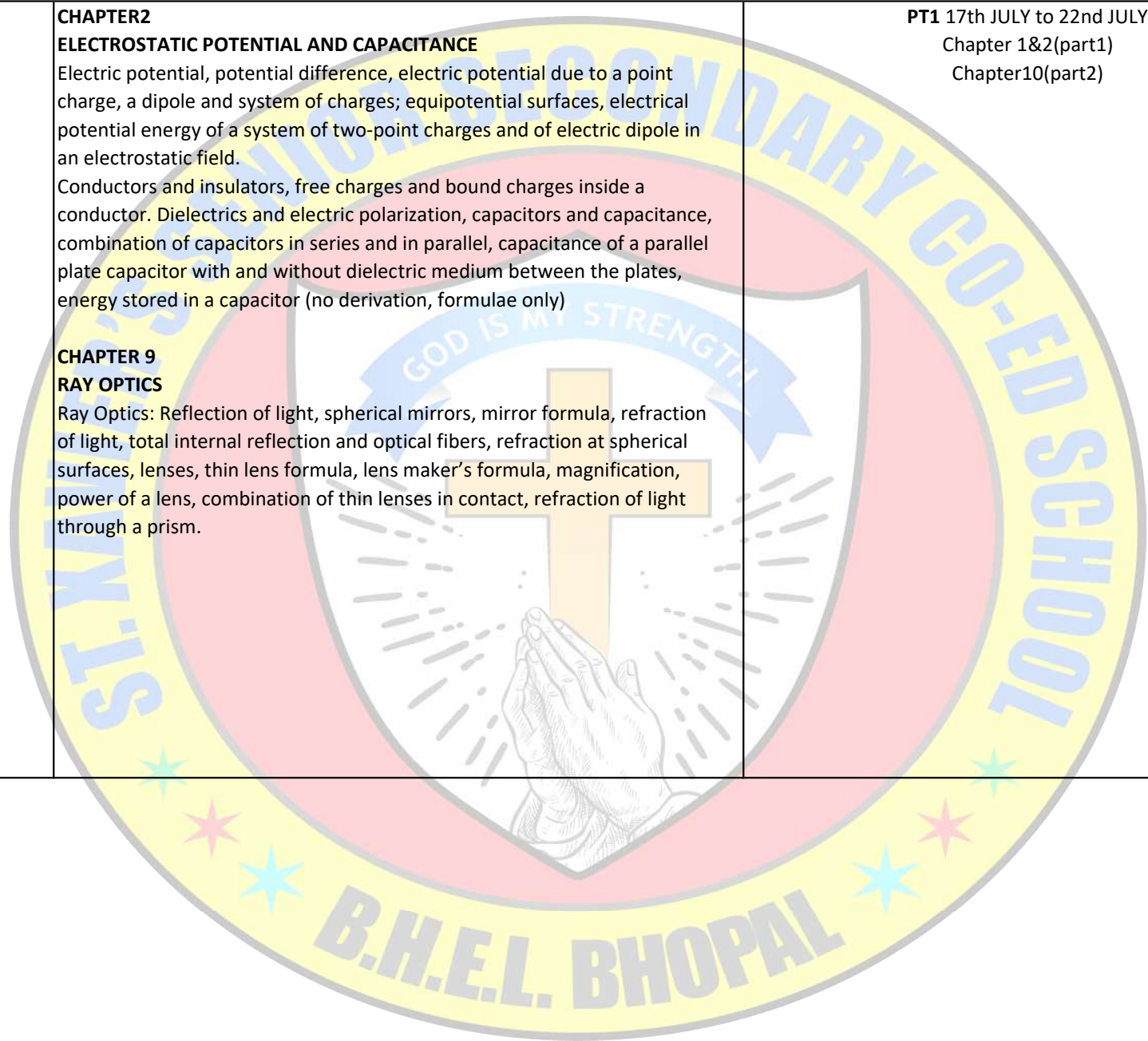
SUBJECT- PHYSICS

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
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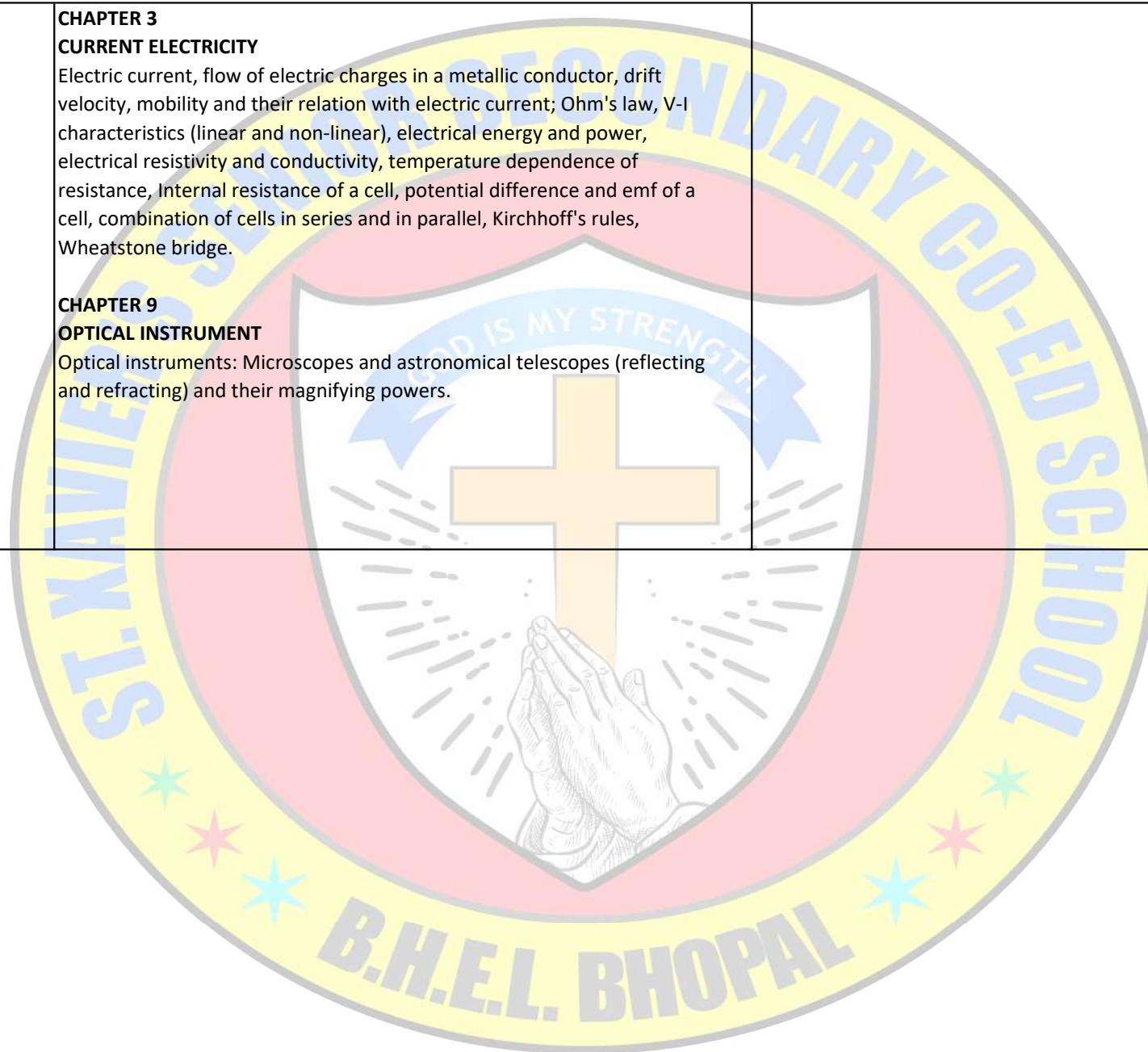
1	APRIL	<p>CHAPTER 1 ELECTRIC CHARGES AND FIELDS</p> <p>Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution.</p> <p>Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.</p> <p>Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).</p> <p>CHAPTER 10 WAVE OPTICS</p> <p>Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only)</p>	
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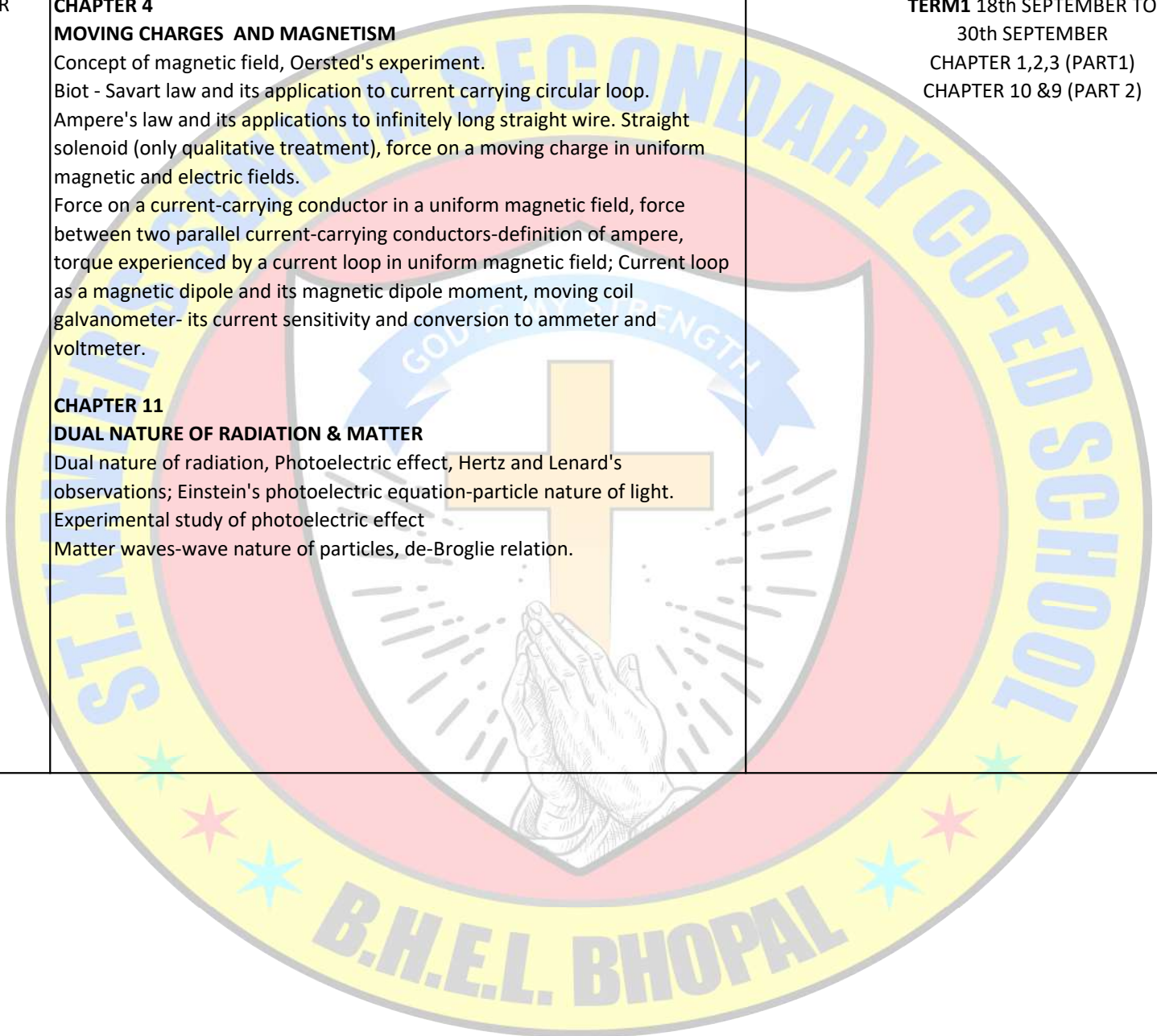
2	JUNE & JULY	<p>CHAPTER2 ELECTROSTATIC POTENTIAL AND CAPACITANCE Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, 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 (no derivation, formulae only)</p> <p>CHAPTER 9 RAY OPTICS Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.</p>	<p>PT1 17th JULY to 22nd JULY Chapter 1&2(part1) Chapter10(part2)</p>
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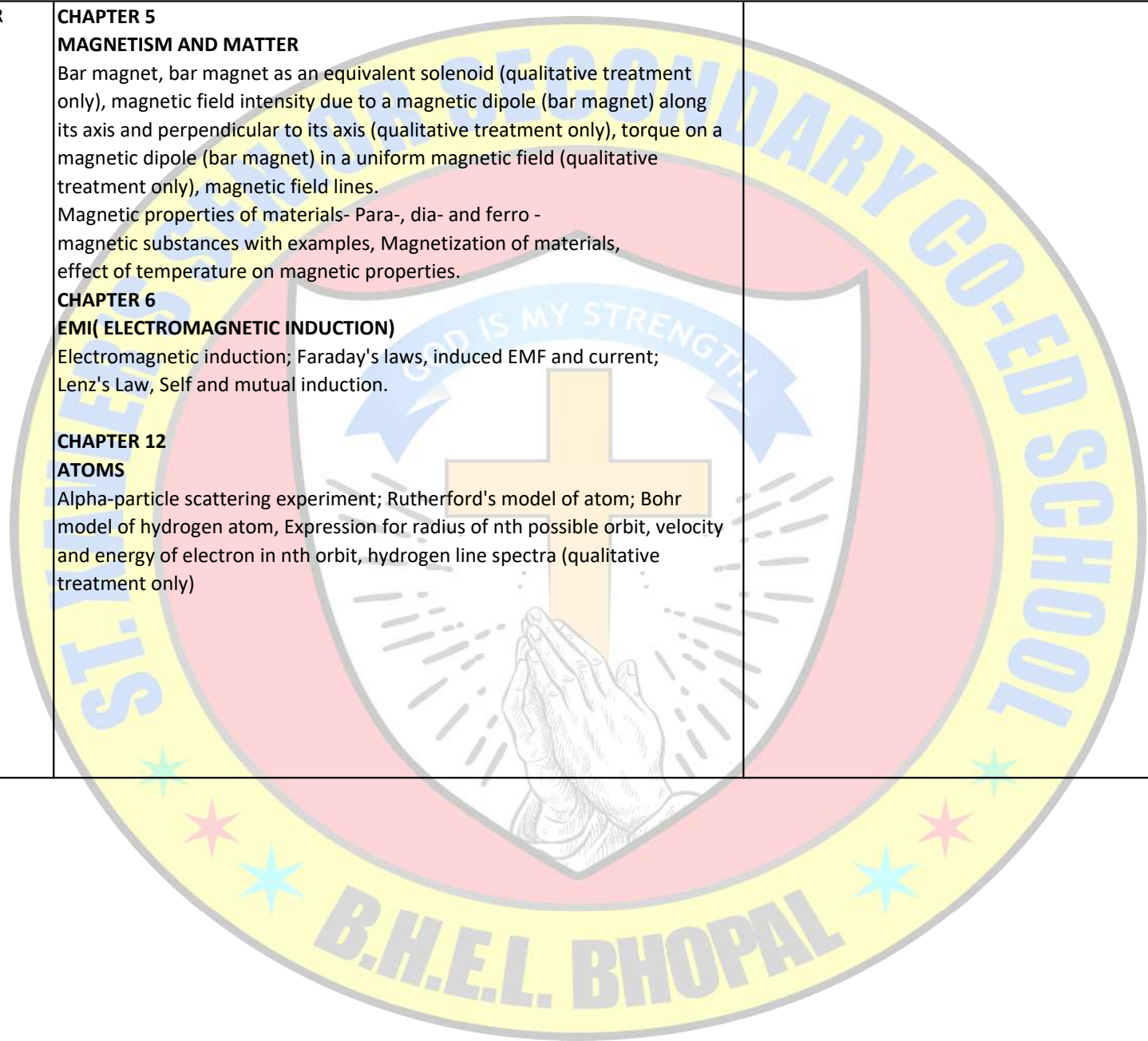
3	AUGUST	<p>CHAPTER 3 CURRENT ELECTRICITY Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, 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 rules, Wheatstone bridge.</p> <p>CHAPTER 9 OPTICAL INSTRUMENT Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p>	
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4	SEPTEMBER	<p>CHAPTER 4 MOVING CHARGES AND MAGNETISM Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter.</p> <p>CHAPTER 11 DUAL NATURE OF RADIATION & MATTER Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation.</p>	<p>TERM1 18th SEPTEMBER TO 30th SEPTEMBER CHAPTER 1,2,3 (PART1) CHAPTER 10 &9 (PART 2)</p>
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5	OCTOBER	<p>CHAPTER 5 MAGNETISM AND MATTER Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro -magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.</p> <p>CHAPTER 6 EMI(ELECTROMAGNETIC INDUCTION) Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.</p> <p>CHAPTER 12 ATOMS Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only)</p>	
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6	NOVEMBER	<p>CHAPTER 7 A.C(ALTERNATING CURRENT) Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer.</p> <p>CHAPTER 8 ELECTROMAGNETIC WAVES Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.</p> <p>CHAPTER 13 NUCLEI Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.</p> <p>CHAPTER 14 SEMICONDUCTOR DEVICES Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.</p>	
7	DECEMBER	REVISION & PREBOARD1	CHAPTER 1 to 15
8	JANUARY	REVISION & PREBOARD2	CHAPTER 1 to 15

SUBJECT MATHEMATICS (041)

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
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1	APRIL	MATRICES, DETERMINANTS, DIFFERENTIATION OF IMPLICIT FNS., PARAMETRIC FNS., LOGARITHMIC DIFFERENTIATION, RATE MEASURE, INCREASING DECREASING FUNCTIONS	
2	JUNE	CONTINUITY AND DIFFERENTIABILITY, LINEAR PROGRAMMING	
3	JULY	DIFFERENTIATION OF INVERSE FNS., MAXIMA, MINIMA INVERSE TRIGNOMETRIC FUNCTIONS	PT-1 (17TH JUL. to 22ND JUL.) MATRICES, DETERMINANTS, DIFFERENTIATION OF IMPLICIT, PARAMETRIC FNS, LOGARITHMIC DIFFERENTIATION, RATE MEASURE, INCREASING DECREASING FUNCTIONS,, LINEAR PROGRAMMING
4	AUGUST	INDEFINITE INTEGRATION, RELATION AND FUNCTION	
5	SEPTEMBER	INTEGRATION OF SPECIAL FUNCTIONS, VECTOR ALGEBRA	PT-2 (18TH SEP. to 30TH SEP.) RELATION AND FUNCTIONS , INVERSE TRIGNOMETRIC FUNCTIONS, MATRICES, DETRMINANTS, CONTINUITY & DIFFERENTIABILITY , DIFFERENTIATION, APPLICATION OF DERIVATIVES, LINEAR PROGRAMMING,
6	OCTOBER	DEFINITE INTEGRATION, AREA BOUNDED BY THE CURVES, THREE DIMENSIONAL GEOMETRY	
7	NOVEMBER	DIFFERENTIAL EQUATIONS , PROBABILITY	
8	DECEMBER	REVISION	1st PREBOARD (11th DEC. to 22nd DEC.) FULL COURSE
9	JANUARY	REVISION	2nd PREBOARD (15th JAN. to 25th JAN.) FULL COURSE

SUBJECT APPLIED MATHEMATICS (241)

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	TREND ANALYSIS, LINEAR PROGRAMMING, MATRICES, DETERMINANTS	
2	June	DIFFERENTIATION, INCREASING DECREASING FNS, RATE MEASURE, NUMBERS AND QUANTIFICATION,	
3	JULY	APPLICATION OF DERIVATIVES , NUMERICAL APPLICATION	PT-1 (17th JUL. To 22nd JUL.) TREND ANALYSIS, LINEAR PROGRAMMING, DIFFERENTIATION, INCREASING DECREASING FNS, RATE MEASURE, DETERMINANTS, NUMBERS AND QUANTIFICATION,
4	AUGUST	INTEGRATION, PROBABILITY DISTRIBUTION	

5	SEPTEMBER	DEFINITE INTEGRATION, DEIFFERENTIAL EQUATIONS, POISSON DISTRIBUTION	PT-2 (18th SEP. to 30th SEP.) PT1 SYLLABUS + APPLICATION OF DERIVATIVES,INDEFINITE INTEGRATION, NUMERICAL APPLICATION, PROBABILITY DISTRIBUTION
6	OCTOBER	FINANCIAL MATHEMATICS, INFERENCE STATISTICS	
7	NOVEMBER	FINANCIAL MATHEMATICS (Cont.), INFERENCE STATISTICS (Cont.)	
8	DECEMBER	REVISION	1st PREBOARD (11th DEC. to 22nd DEC.) FULL COURSE
9	JANUARY	REVISION	2nd PREBOARD (15th JAN. to 25th JAN.) FULL COURSE

SUBJECT BIOLOGY

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	PRINCIPLES OF INHERITANCE Mendels Laws, co dominance,chromosomal theory of inheritance,polygenic traits, sex determination	
		SEXUAL REPRODUCTION IN FLOWERING PLANTS- stamen,microsporangium pollen grain,megasporangia embryo, pollination,double ferti	
2	JUNE	PRINCIPLES OF INHERITANCE-Mutations, Mendelian disorders HUMAN REPRODUCTION- male reproductivce system and female reproductive system ,gametogenesis. menstrual cycle, pregnancy	
3	JULY	MOLECULAR BASIS OF INHERITANCE-DNA , packaging, search Properties of genetic material, DNA replication,transcriptional unit,Genetic code Gene regulation, HGP	17-22 JULY PT 1 PRINCIPLES OF INHERITANCE, Structure of DNA
		HUMAN REPRODUCTION-fertilisation,implantation,embryonic development	SEXUAL REPRODUCTION IN FLOWERING PLANTS
4	AUGUST	DNA finger printing EVOLUTION- Origin of life,theories of evolution,adaptive radiations, mechanism, origin and evolution of man	Principles of inheritance, molecular basis of inheritance, evolution
		REPRODUCTIVE HJEALTH - population stabilisation and birth control,MTP,STI, infertility	

5	SEPTEMBER	Revision for PT2 , BIOTECHNOLOGY : PRINCIPLES AND PROCESSES - Principles of Biotechnology	PT 2 18-30 SEPTEMBER
		Revision for Term 1,HUMAN HEALTH AND DISEASE	HUMAN REPRODUCTION,REPRODUCTIVE HEALTH
			SEXUAL REPRODUCTION IN FLOWERING PLANTS
			Principles of inheritance, molecular basis of inheritance, evolution
6	OCTOBER	BIOTECHNOLOGY- Tools, cloning vectors, competent host,processing of products-bioreactors	
		ORGANISM AND POPULATION- population attributes, interactions	
		MICROBES IN HUMAN WELFARE-Microbes in household products, industrial products+	
7	NOVEMBER	ECOSYSTEM- Patterns , productivity and decomposition,pyramids	
		BIODIVERSITY AND ITS CONSERVATION- Patterns, biodiversity loss and conservation, hotspots, wild life parks, sanctuaries ,wetlands	
		BIOTECHNOLOGY AND ITS APPLICATIONS- in agriculture,medicines molecular diagnosis, transgenic animals	
8	DECEMBER	REVISION	PRE BOARD 1 11-22 December
			Full syllabus
9	JANUARY	REVISION	PRE BOARD 2 15-25 JAN , FULL SYLLABUS

SUBJECT ECONOMICS

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	DEVELOPMENTAL CHALLENGES	
		CHAPTER 4 HUMAN CAPITAL FORMATION	
		CHAPTER 5 RURAL DEVELOPMENT	
2	JUNE	NATIONAL INCOME	
		CHAPTER 1 CIRCULAR FLOW OF INCOME	
		BASIC CONCEPTS OF MACRO ECONOMICS	
		NATIONAL INCOME AND RELATED AGGREGATES	

3	JULY	NATIONAL INCOME	17 JULY 2023 PT 1
		CHAPTER 4 MEASUREMENT OF NATIONAL INCOME	IED CHAPTER 4,6
		MONEY AND BANKING	MACRO ECONOMICS
		CHAPTER 5 MONEY	CAPTER 1,2,3
		CHAPTER6 BANKING : COMMERCIAL BANKS AND THE CENTRAL BANK	
		DEVELOPMENTAL CHALLENGES	
		CHAPTER 6 EMPLOYMENT GROWTH AND INFORMALISATION	
		CHAPTER 7 SUSTAINABLE DEVELOPMENT	
4	AUGUST	DETERMINATION OF INCOME AND EMPLOYMENT	
		CHAPTER 7 AGGREGATE DEMAND AND RELATED CONCEPTS	
		CHAPTER 8 INCOME DETERMINATION AND MULTIPLIER	
		CHAPTER 8 EXCESS DEMAND AND DEFFICIENT DEMAND	
		IED CHAPTER 1 INDIA ON THE EVE OF INDEPENDENCE	
		IED CAHPTER 2 INDIAN ECONOMY 1950-1990	
SEP		IED CHAPTER 2 CONTINUES	PT2 18.09.2023
		GOVT. BUDGET AND THE ECONOMY	IED CHAPTER 1,2,4,5
		L.P.G	MACRO ECONOMICS
		GOVT. BUDGET	CHAPTER 1,2,3,4,6,7,8,9
OCT		L.P.G CONINUES	
		BUDGET CONTINUES	
		BALANCE OF PAYMENT	
		CHAPTER 11 FOREIGN EXCHANGE RATE	
NOV		CHAPTER 12 BALANCE OF PAYMENT	
		CHAPTER 8 DEVELOPMENTAL EXPERINECES OF INDIA AND ITS NEIGHBOURS	
DEC			11.12.2023PREBOARD
			FULL SYLLABUS
JAN			2ND PREBOARD 15TH JAN TO 25TH JAN

SUBJECT : Business Studies

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	April	Ch. 1. Nature & significance of Management	
2		Ch. 9. Financial Management	
3	June	Ch. 2. Principles of Management	
4		Ch. 3. Business Environment	
5	July	Ch. 4. Planning	PT 1 Exam 17th July - 22nd July
6		Ch. 5. Organising	PT 1 Syllabus Ch.1, Ch.2 & Ch.9
7		Ch. 10. Financial Market	
8	Aug	Ch. 5. Organising Contd...	
9		Ch. 6. Staffing	
10		Ch. 11. Marketing Management	
11	Sep	Ch. 7. Directing	PT 2 Exam 18th Sep - 30th Sep
12		Ch. 11. Marketing Management Contd...	PT 2 Syllabus Ch.1, Ch.2, Ch.3, Ch.4 Ch.5 & Ch.9
13	Oct	Ch. 8. Controlling	
14		Ch. 12. Consumer Protection	
15	Nov	Revision	
16	Dec	Revision + Pre-Board Exam	1st PRE- BOARD EXAM 11th Dec - 22nd Dec - FULL SYLLABUS
17	Jan	Revision + Pre-Board Exam	2nd Pre-Board Exam 15th Jan 25th Jan - FULL SYLLABUS

SUBJECT : Accountancy

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	April	Ch. 1. Financial Statements of a Company	
2		Ch. 2. Financial Statements Analysis.	
		Ch.3. Accounting Ratios	
3	June	Ch. 4. Cash flow Statement	
4		Ch. 5. Common size & Comparative Statements	
5	July	Vol.1. Ch. 1. Accounting for Partnership - Fundamentals	PT 1 Exam 17th July - 22nd July
6		Vol.1. Ch. 2. Goodwill Nature & Valuation.	PT 1 Syllabus Ch.1, Ch.2, Ch.3, Ch.4 & Ch.5

7	Aug	Vol.1 Ch. 3. Change in Profit sharing	
8		Vol.1. Ch. 4. Admission of a Partner	
9	Sep	Vol.1. Ch. 5. Retirement of a Partner	PT 2 Exam 18th Sep - 30th Sep
10		Vol.1. Ch. 6. Death of a Partner	PT 2 Syllabus Ch.1, Ch.2, Ch.3, Ch.4 , Ch.5,
			Vol.1. - Ch.1, Ch.2, Ch.3 & Ch.4
11	Oct	Vol.1. Ch. 7. Dissolution of a Partnership Firm	
12		Vol.2. Ch. 9. Accounting for Share Capital	
13	Nov	Vol.2. Ch. 10. Issue of Debentures + Revision	
	Dec	Revision + Pre-Board Exam	1st PRE- BOARD EXAM 11th Dec - 22nd Dec - FULL SYLLABUS
	Jan	Revision + Pre-Board Exam	2nd PRE- BOARD EXAM 15th Jan - 25th Jan - FULL SYLLABUS

SUBJECT HISTORY

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	THEME- 1 BRICKS,BEADS AND BONES -beginnings,planned urban centre, tracking social difference,ancient authority and end of civilisation	
		THEME - 2 KINGS ,FARMERS AND TOWNS:- The earliest state, An early empire, New notions of kingship,A changing countryside, Towns and trade and the limitations	
		THEME - 3 KINSHIP CASTE AND CLASS:- The critical edition of The Mahabharata, Kinship & marriage, Social differences, Beyond birth, Social cotract, Handling text & a dinamic text	
2	JUNE	THEME - 4 THINKERS, BELIEFS AND BUILDS:- A glimpse of Sanchi, The background, The Mahavira and The Buddha, Discovering Stupas, scupture, New religeous tradition & Can we save/	
		THEME - 5 THROUHG THE EYES OF TRAVELLERS:- Al-Biruni, Ibn Battuta's Rihla, Francois Bernier,Making sense of an Alien world, The excitement of the unfamiliar, The degenerate East and Women	

3	JULY	THEME - 6 BHAKTI SUFI TRADITIONS:- Amosaic beliefs and practices, Poems of prayer, The Virashiva tradition, Religious fermant in N.Indai, Islamic traditions, The growth of Sufism and Bhakti cults in North India.	PT1 FROM 17TH JULY TO 22ND JULY, 2023, PART-1, CHAPTER-1,2,3 & 4
		THEME - 7 AN IMPERIAL CAPITAL VIJAYNAGARA:- The discovery of Hampy, The capital and its Environns, The royal centre, The sacred centre and questions in search of answers	
4	AUGUST	THEME - 8 PEASANTS, ZAMINDARS AND THE STATE:- Peasants and agriculture, The village community, Women in agrarian society, Forest and tribes, The zamindars and the flow of silver.	
		THEME - 10 COLONIALISM AND THE COUNTRYSIDE:- Bengal and the zamindars, The hoe and the Plough, the revolt in the countryside and The Deccan riots commission.	
5	SEPTEMBER	THEME - 11 REBELS AND THE RAJ:- Pattern of the rebellion, Awadh in revolt, What the rebels wanted, Repression & Images of the revolt	PT2 - SEPTEMBER 18TH TO 30TH, 2023 - PATR-1 CHAPTERS1, 2, 3, 4, 5, 6, 7 & 8
6	OCTOBER	THEME - 13 MAHATMA GANDHI AND NATIONALIST MOVEMENTS:- Aleader announces himself, Non-cooperation, The salt satyagraha, Quit India, The last heroic days and knowing Gandhi	
		THEME - 15 FRAMING OF THE CONSTITUTION:- Tumultuous time, The vision of the constitution, Defining rights, The powers of the state, The language of the Nation and conclusion	
7	NOVEMBER	REVISIONS	PART-2 CHAPTERS 10, 11, 13 & 15
8	DECEMBER	REVISIONS	PRE-BOARD - 1 FROM 11TH TO 22ND DECEMBER, 2023, PART-I, II & III - CHAPTERS 1, 2, 3, 4, 5, 6, 7, 8,10, 11, 13 &15
9	JANUARY	REVISIONS	PRE-BOARD - 2 FROM 14TH TO JANUARY, 2024, PART-I, II & III - CHAPTWRs 1, 2, 3, 4, 5, 6, 7, 8,10, 11, 13 &15

SUBJECT - POLITICAL SCIENCE

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL	CHAPTER - 2 END OF BIPOLARITY:- Overview,Soviet system, Gorbachev and the Disintegration, Consequences of disintegration, Shock theraphyand India and post-communist countries.	

		CHAPTER - 4 ALTERNATIVE CENTERS OF POWER:- Over view, European Union, ASEAN, rise of the Chinese economy, India-China relations, Japan & Korea	
2	JUNE	CHAPTER -5 CONTEMPORARY SOUTH ASIA:- Overview, South East Asia?, Military democracy in Pakistan, Democracy in Pakistan, Srilanka, India-Pakistan conflicts, other neighbours, Peace & cooperation	
3	JULY	CHAPTER - 6 INTERNATIONAL ORGANISATIONS:- Overview, why international organisation?, eelution of UN, UN after the cold war, Reforms, Jurisdiction of UN and reforms, UN in a unipolar World.	PT1 FROM 17TH JULY TO 22ND JULY, 2023 CHAPTER-2, 4 & 5
		CHAPTER -7 SECURITY IN THE CONTEMPORARY WORLD:- Overview, Traditional notions: internal and external, Traditional security and cooperation, Non traditional notions and threads and India's security strategies	
4	AUGUST	CHAPTERB-8 ENVIRONMENT AND NATURAL RESOURCES:- Overview, Environmental concerns, Protection of global commons, Responsibilities, India's stand on environmental issues & Resource Geopolitics	
		CHAPTER - 9 GLOBALISATIO:- Overview, the concept and causes of Globalisation, Political. Ecoomic & cultural consequences, India and resistance of globalisation	
		CHAPTER - 1 CHALLENGES IN NATION BUILDING:- Challenges for new nations, replacements and rehabilitatin, integration of princily states & reorganisation of states.	
5	SEPTEMBER	CHAPTER -2 ERA OF ONE PARTY DOMINANCE:- Challenges of building democracy, Congress dominance, Socialist party, The communist party, BJS & Swatantra party	PT2 - SEPTEMBER 18 TO 30TH, 2023 - PATR-1 CHAPTERS 2, 4, 5, 6, 7, 8 &9
		CHAPTER 3 PLANNED DEVELOPMENT:- Introduction, the early initiatives, Key controversies, Major outcomes, reforms and green revelution.	
6	OCTOBER	CHAPTER -4 INDIA'S FOREIGN POLICY:- International context, The policy of non-violence, peace and conflict with China, war and peace with Pakistan, India's Nuclear policy,	

		CHAPTER-6 CRISES OF DEMOCRATIC ORDER:- Background of Emergency, declartion and controversies of emergency, politics after emergency.	
		CHAPTER - 7 RISE OF POPULAR MOVEMENTS:- Nature, Dalit Panthers, BKU, anti-arrack movements, Narmada bachao andolan, Lessons from popular movements.	
		CHAPTER - 8 REGIONAL ASPIRATIONS:- Re, gion and nation, J & K, PUNCHAB, The North - east, accomodation and National integration.	
7	NOVEMBER	CHAPTER - 9 DEVELOPMENTS IN INDIAN POLITICS:- Context of 1990s, Era of coalitions, Political rise of OBC.	
8	DECEMBER	REVISION	PRE-BOARD - 1 FROM 11TH TO DECEMBER2023, PART-1 CHAPTERS 2, 4, 5, 6, 7, 8 & 9 AND PART-2 CHAPTERS 1, 2, 3, 4, 5, 6, 7, 8, & 9
9	JANUARY	REVISION	PRE-BOARD - 2 FROM 15TH TO JANUARY, 2024 PART-1 CHAPTERS 2, 4, 5, 6, 7, 8 & 9 AND PART-2 CHAPTERS 1, 2, 3, 4, 5, 6, 7, 8, & 9

SUBJECT - CHEMISTRY

S.NO	MONTH	LESSON-TOPIC AND SUBTOPICS	EXAM DATES AND SYLLABUS
1	APRIL (PART 1)	COORDINATION COMPOUNDS- Nomenclature,Isomerism,VB,T,CFT,Metal Carbonyls and applications of complexes.	
		SOLUTIONS- Types and Concentration terms,Henrys law.	
	APRIL (PART 2)	HALOALKANES AND HALOARENES- Introduction,Classification,IUPAC naming,nature of C-X bond,preparations	
2	JUNE (PART 1)	SOLUTIONS- Henrys law, Vapour pressure, Roults law	
	JUNE (PART 2)	HALOALKANES AND HALOARENES- Preparations , Physical Properties	
3	JULY(PART I)	SOLUTIONS - Colligative properties,vont hoff factor,	17 JULY TO 22 JULY (PT-1)
		ELECTROCHEMISTRY- Redox reaction ,EMF of cell,Nernst equation,	Coordination compounds , Haloalkanes and haloarenes
	JULY(PART 2)	HALOALKANES AND HALOARENES- Chemical properties,SN1 ,SN2,Elimination reactions,Polyhalogen compounds.	

4	AUGUST (PART 1)	ELECTROCHEMISTRY- Gibbs energy, primary and secondary cell, fuel cell, electrolytic solutions, laws of electrolysis.	
	AUGUST (PART 2)	HALOALKANES AND HALOARENES - Mechanism involved in all reactions.	
		ALCOHOLS PHENOLS AND ETHER - Introduction, classification , IUPAC Naming	
5	SEPTEMBER(PART 1)	ELECTROCHEMISTRY-Kohlrausch law and its applications ,specific and molar conductance.	18 SEPTEMBER TO 30 SEPTEMBER (PT 2)
		CHEMICAL KINETICS- Introduction and rate of chemical reaction.	Coordination compounds , Haloalkanes and haloarenes
	SEPTEMBER(PART 2)	ALCOHOLS PHENOLS AND ETHER - Preparations of alcohols and phenols, physical properties, chemical properties.	Solutions, Electrochemistry and Alcohols Phenols.
		ALDEHYDES ,KETONES AND CARBOXYLLIC ACID-Introduction ,IUPAC,preparations and physical properties.	
6	OCTOBER(PART -1)	d and f block elements- Electronic configurations, general properties, and preparations of compounds,	
		CHEMICAL KINETICS- Factors affecting rate of chemical reaction, Order and molecularity , half life period, collision .	
	OCTOBER(PART -2)	ALDEHYDES ,KETONES AND CARBOXYLLIC ACID-chemical properties, uses.	
		AMINES - Introduction, IUPAC, preparations , physical properties and chemical properties.	
7	NOVEMBER (PART 1)	d and f block elements- Electronic configurations, general properties of lanthanoids and actinoids.	
	NOVEMBER (PART 2)	BIOMOLECULES.	
8	DECEMBER	REVISION	11 DECEMBER TO 22 DECEMBER (PRE BOARD 1)
			FULL SYLLABUS.
9	JANUARY		15 JANUARY TO 25 JANUARY (PRE BOARD 2)