



St. XAVIER'S HIGH SCHOOL

EDUCATION FOR ALL
BANKURA, WEST BENGAL

Affiliated to CBSE (New Delhi) 10+2 Level
Affiliation No.: 2430130
School Code: 15720

STD. – XI (SCIENCE)

SPLIT UP SYLLABUS (2023-24)

SUBJECT- PHYSICS

Month	No. of Working Days	Name of Book	Chapter's No.	Topic	Page No.
APRIL	20	NCERT PHYSICS (PART-1)	1	UNITS AND MEASUREMENTS	1-7
MAY	15		2	MOTION IN A STRAIGHT LINE	13-17
		NCERT PHYSICS (PART-1)	3	MOTION IN A PLANE	27-40
JUNE	08	NCERT PHYSICS (PART-1)	4	LAWS OF MOTION	49-64
		REVISION + PT-I EXAM			
JULY	25	NCERT PHYSICS(PART-1 AND 2)	5	WORK, POWER, ENERGY	71-83
			6	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	92-120
AUGUST	25	NCERT PHYSICS (PART-2)	7	GRAVITATION	127-138
			8	MECHANICAL PROPERTIES OF SOLIDS	167-174
SEPTEMBER	15	NCERT PHYSICS(PART-2)	9	MECHANICAL PROPERTIES OF FLUIDS	180-192
		REVISION + PT-II EXAM			
OCTOBER	13	NCERT PHYSICS(PART-2)	9	MECHANICAL PROPERTIES OF FLUIDS(CONTD)	180-192
NOVEMBER	20	NCERT PHYSICS (PART-2)	10	THERMAL PROPERTIES OF MATTER	202-219
			11	THERMODYNAMICS	126-137
DECEMBER	24	NCERT PHYSICS(PART-2)	11	THERMODYNAMICS (CONTD)	126-137
			12	KINETIC THEORY OF GASES	244-254
		REVISION + PT-III EXAM			
JANUARY	22	NCERT PHYSICS (PART-2)	13	OSCILLATION	259-270
			14	WAVES	278-293
FEBRUARY	22	REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- BIOLOGY

Month	No. of Working Days	Name of Book	Chapter's No.	Topic	Page No.
APRIL	20	A TEXTBOOK OF BIOLOGY XI NCERT	1	THE LIVING WORLD	3-15
			2	BIOLOGICAL CLASSIFICATION	16-20
MAY	15	A TEXTBOOK OF BIOLOGY XI NCERT	2	BIOLOGICAL CLASSIFICATION(Continued)	21-28
			3	PLANT KINGDOM	29-45
JUNE	08	A TEXTBOOK OF BIOLOGY XI NCERT	4	ANIMAL KINGDOM	46-62
			REVISION + PT-I EXAM		
JULY	25	A TEXTBOOK OF BIOLOGY XI NCERT	5	MORPHOLOGY OF FLOWERING PLANTS	65-83
			6	ANATOMY OF FLOWERING PLANTS	84-99
			7	STRUCTURAL ORGANISATION IN ANIMALS	116-122
			8	CELL: THE UNIT OF LIFE	126-130
AUGUST	25	A TEXTBOOK OF BIOLOGY XI NCERT	8	CELL: THE UNIT OF LIFE	131-141
			9	BIOMOLECULES	142-161
			10	CELL CYCLE AND CELL DIVISION	162-172
SEPTEMBER	15	A TEXTBOOK OF BIOLOGY XI NCERT	13	PHOTOSYNTHESIS IN HIGHER PLANTS	206-225
			14	RESPIRATION IN PLANTS	226-238
			REVISION + PT-II EXAM		
OCTOBER	13	A TEXTBOOK OF BIOLOGY XI NCERT	15	PLANT GROWTH AND DEVELOPMENT	239-254
			17	BREATHING AND EXCHANGE OF GASES	268-277
NOVEMBER	20	A TEXTBOOK OF BIOLOGY XI NCERT	18	BODY FLUID AND CIRCULATION	278-289
			19	EXCRETORY PRODUCTS AND THEIR ELIMINATION	291-301
DECEMBER	24	A TEXTBOOK OF BIOLOGY XI NCERT	20	LOCOMOTION AND MOVEMENT	302-314
			21	NEURAL CONTROL AND COORDINATION	315-329
			REVISION + PT-III EXAM		
JANUARY	22	A TEXTBOOK OF BIOLOGY XI NCERT	22	CHEMICAL COORDINATION AND INTEGRATION	330-342
FEBRUARY	22	REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- MATHEMATICS

Month	No. of Working Days	Name of Book	Chapter's No.	Topic	Page No.
APRIL	20	NCERT SETS	1	INTRODUCTION, SETS AND THEIR REPRESENTATIONS, EMPTY SET, FINITE AND INFINITE SETS, EQUAL SETS, SUBSETS, POWER SET, UNIVERSAL SET, VENN DIAGRAMS, OPERATIONS ON SETS, COMPLEMENT OF SETS	1-18
		RELATIONS AND FUNCTIONS	2	INTRODUCTION, CARTESIAN PRODUCT OF SETS, RELATIONS, FUNCTIONS	30-36
		TRIGONOMETRIC FUNCTIONS	3	INTRODUCTION, ANGLES	49
			3	TRIGONOMETRIC FUNCTIONS	49
MAY	15	TRIGONOMETRIC FUNCTIONS	3	TRIGONOMETRIC FUNCTIONS OF SUM AND DIFFERENCE OF TWO ANGLES	55
			3	TRIGONOMETRIC EQUATIONS	63
			3	Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.	-
JUNE	08	TRIGONOMETRIC FUNCTIONS	3	SUBMULTIPLE ANGLE	
REVISION + PT-I EXAM					
JULY	25	COMPLEX NUMBERS AND QUADRATIC EQUATIONS	5	COMPLEX NUMBER, ALGEBRA OF COMPLEX NUMBER, THE MODULUS AND THE CONJUGATE OF A COMPLEX NUMBER	97-102
			5	ARGAND PLANE	104
		LINEAR INEQUALITIES	6	LINEAR INEQUALITIES	116
			6	ALGEBRAIC SOLUTIONS OF LINEAR INEQUALITIES IN ONE VARIABLE AND THEIR REPRESENTATION ON THE NUMBER LINE	118
		PERMUTATIONS AND COMBINATIONS	7	FUNDAMENTAL PRINCIPLE OF COUNTING, FACTORIAL N. (N!) PERMUTATIONS AND COMBINATIONS,	134
AUGUST	25	PERMUTATIONS AND COMBINATIONS	7	DERIVATION OF FORMULAE FOR nPr AND nCr AND THEIR CONNECTIONS, SIMPLE APPLICATIONS	138-144
		BINOMIAL THEOREM	8	HISTORICAL PERSPECTIVE,	160
			8	STATEMENT AND PROOF OF THE BINOMIAL THEOREM FOR POSITIVE INTEGRAL INDICES	160
			8	PASCAL'S TRIANGLE	167
SEPTEMBER	15	BINOMIAL THEOREM	8	SIMPLE APPLICATIONS	168
REVISION + PT-II EXAM					
OCTOBER	13	SEQUENCE AND SERIES	9	SEQUENCE AND SERIES, ARITHMETIC MEAN (A.M.) GEOMETRIC PROGRESSION (G.P.) GENERAL TERM OF A G.P.,	177-179
			9	SUM OF N TERMS OF A G.P., INFINITE G.P. AND ITS SUM, GEOMETRIC MEAN (G.M.)	181-186
			9	RELATION BETWEEN A.M. AND G.M	191
NOVEMBER	20	STRAIGHT LINES	10	Brief recall of two dimensional geometry from earlier classes.	203
			10	Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line.	204
		Conic Sections	11	Sections of a cone: circles, ellipse, parabola, hyperbola, a point,	236
			11	Standard equations and simple properties of parabola, ellipse and hyperbola.	247

				Standard equation of a circle.	
DECEMBER	24	Introduction to Three-dimensional Geometry	12	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points.	268-273
		Limits and Derivatives	13	Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions.	281
		REVISION + PT-III EXAM			
JANUARY	22	Limits and Derivatives	13	Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.	294
		Statistics	15	Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.	347
		Probability	16	Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.	343
FEBRUARY	22	REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- ENGLISH

MONTH	NO. OF WORKING DAYS	NAME OF BOOK	CHAPTER'S NO.	TOPIC	PAGE NO.
APRIL	20	HORNBILL	1	THE PORTRAIT OF A LADY A PHOTOGRAPH	3-11
		SNAPSHOTS	1	THE SUMMER OF THE BEAUTIFUL WHITE HORSE	1-9
		GRAMMAR		TENSES	
MAY	15	HORNBILL	2	WE ARE NOT AFRAID TO DIE IF WE CAN ALL BE TOGETHER	13-21
		SNAPSHOTS	2	THE ADDRESS	10-15
		WRITING SKILLS		NOTE MAKING CLASSIFIED ADVERTISEMENTS	
JUNE	08	HORNBILL	3	DISCOVERING TUT : THE SAGA CONTINUES	22-30
		GRAMMAR		GAP FILLING (TENSES, CLAUSES)	
		REVISION + PT-I EXAM			
JULY	25	HORNBILL	3 4	THE LABURNUM TOP THE VOICE OF RAIN	31-33
		SNAPSHOTS	4	MOTHER'S DAY	
AUGUST	25	HORNBILL	5 6	MOTHER'S DAY THE ADVENTURE	32-53 60-71
		HORNBILL	5	MOTHER'S DAY	32-53

			6	THE ADVENTURE	60-71
		WRITING SKILLS		POSTER WRITING SPEECH WRITING	
		GRAMMAR		QUESTIONS ON RE-ORDERING/TRANSFORMATION OF SENTENCES	
SEPTEMBER	15	HORNBILL	6	CHILDHOOD	58-59
		SNAPSHOTS	7	BIRTH	65-70
		REVISION + PT-II EXAM			
OCTOBER	13	HORNBILL	7	THE ADVENTURE	60-73
		WRITING SKILLS		WRITING A DEBATE BASED ON VISUAL/VERBAL INPUTS IN 120-150 WORDS. THE THEME SHOULD BE CONTEMPORARY TOPICAL ISSUES	
NOVEMBER	20	HORNBILL	8	SILK ROAD	74-84
		SNAPSHOTS	8	THE TALE OF MELON CITY	71...
		GRAMMAR		REVISION	----
		WRITING SKILLS		REVISION	-----
DECEMBER	24	HORNBILL		REVISION	
		SNAPSHOTS		REVISION	
		GRAMMAR		REVISION	
		WRITING SKILLS		REVISION	
		HORNBILL		REVISION	
		REVISION + PT-III EXAM			
JANUARY	22	HORNBILL		REVISION	
		SNAPSHOTS		REVISION	
		GRAMMAR		REVISION	
		WRITING SKILLS		REVISION	
FEBRUARY	22	REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- PHYSICAL EDUCATION

MONTH	NO. OF WORKING DAYS	NAME OF BOOK	CHAPTER'S NO.	TOPIC	PAGE NO.
APRIL	20	PHYSICAL EDUCATION	01	CHANGING TRENDS & CAREER IN PHYSICAL EDUCATION – MEANING & DEFINITION OF PHYSICAL EDUCATION, AIM & OBJECTIVES OF PHYSICAL EDUCATION	9-12
		PHYSICAL EDUCATION	01	CAREER OPTIONS IN PHYSICAL EDUCATION, COMPETITIONS IN VARIOUS SPORTS AT NATIONAL AND INTERNATIONAL LEVEL, KHELO INDIA PROGRAM	13-30
MAY	15	PHYSICAL EDUCATION	02	OLYMPICS, PARALYMPICS AND SPECIAL OLYMPICS	37-46
		PHYSICAL EDUCATION	02	OLYMPIC SYMBOL, IDEALS, OBJECTIVES AND VALUE OF OLYMPISM	46-49
		PHYSICAL EDUCATION	02	INTERNATIONAL OLYMPIC COMMITTEE, INDIAN OLYMPIC ASSOCIATION	49-51

JUNE	08	REVISION + PT-I EXAM			
JULY	25	PHYSICAL EDUCATION	03	MEANING AND IMPORTANCE OF PHYSICAL FITNESS, WELLNESS AND LIFESTYLE, COMPONENTS OF PHYSICAL FITNESS AND WELLNESS	57-66
		PHYSICAL EDUCATION	03	COMPONENTS OF HEALTH RELATED FITNESS	67-70
		PHYSICAL EDUCATION	04	PHYSICAL EDUCATION AND SPORTS FOR CWSN	77-88
AUGUST	25	PHYSICAL EDUCATION	05	YOGA- MEANING AND IMPORTANCE OF YOGA, ELEMENTS OF YOGA, INTRODUCTIONS TO ASANAS, PRANAYAMA, MEDITATION AND YOGIC KRIYAS	95-104
		PHYSICAL EDUCATION	05	YOGA FOR CONCENTRATION AND RELATED ASANAS(SUKHASANA, TADASANA, PADMASANA....) RELAXATION TECHNIQUES FOR IMPROVING CONCENTRATION -- YOGANIDRA	104-111
		PHYSICAL EDUCATION	06	PHYSICAL ACTIVITY AND LEADERSHIP TRAINING	118-130
SEPTEMBER	15	REVISION + PT-II EXAM			
OCTOBER	13	PHYSICAL EDUCATION	07	DEFINATIONS AND IMPORTANT OF TEST, MEASUREMENTS AND EVALUATION	136-139
		PHYSICAL EDUCATION	07	CALCULATION OF BMI, SOMATOTYPES OR BODY TYPES (ENDOMORPHY,MESOMORPHY, ECTOMORPHY), MEASUREMENT OF HEALTH RELATED FITNESS	139-152
NOVEMBER	20	PHYSICAL EDUCATION	08	DEFINATION AND IMPORTANCE OF ANATOMY, PHYSIOLOGY AND KINESIOLOGY, FUNCTIONS OF SKELETAL SYSTEM, CLASSIFICATION OF BONE AND TYPES OF JOINTS, PROPERTIES AND FUNCTIONS OF MUSCLES	161-171
		PHYSICAL EDUCATION	08	STRUCTURE AND FUNCTIONS OF RESPIRATORY SYSTEM AND CIRCULATORY SYSTEM, EQUILIBRIUM - DYNAMIC AND STATIC AND CENTRE OF GRAVITY AND IT'S APPLICATION IN SPORTS	172-180
DECEMBER	24	PHYSICAL EDUCATION	09	DEFINATION AND IMPORTANCE OF PSYCHOLOGY AND SPORTS , DEFINE AND DIFFERENTIATE BETWEEN GROWTH AND DEVELOPMENT, DIFFERENT STAGES OF DEVELOPMENT, AND ADOLESCENTS PROBLEM AND THEIR MANAGEMENT	189-200
		PHYSICAL EDUCATION	10	MEANING , CONCEPT AND PRINCIPLES OF SPORTS TRAINING, WARMING UP AND LIMBERING DOWN, SKILL, TECHNIQUE AND STYLE, CONCEPT AND CLASSIFICATION OF DOPING, AND SIDE EFFECTS OF DOPING, DEALING WITH ALCOHOL AND SUBSTANCE ABUSE	205-231
		REVISION + PT-III EXAM			
JANUARY	22	FULL REVISION			
FEBRUARY	22	FULL REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- CHEMISTRY

MONTH	NO. OF WORKING DAYS	NAME OF BOOK	CHAPTER'S NO.	TOPIC	PAGE NO.
APRIL	20	NCERT CHEMISTRY (I)	1.	SOME BASIC CONCEPTS OF CHEMISTRY	1-20
		NCERT CHEMISTRY (I)	2.	STRUCTURE OF ATOM	29-53
MAY	15	NCERT CHEMISTRY (I)	2.	STRUCTURE OF ATOM	29-53
JUNE	08	REVISION + PT-I EXAM			
JULY	25	NCERT CHEMISTRY (I)	3.	CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES	74-85
		NCERT CHEMISTRY (II)	7.	REDOX REACTIONS	235-249
AUGUST	25	NCERT CHEMISTRY (I)	4.	CHEMICAL BONDING AND MOLECULAR STRUCTURE	100-131
SEPTEMBER	15	NCERT CHEMISTRY (I)	5.	CHEMICAL THERMODYNAMICS	136-162
		REVISION + PT-II EXAM			
OCTOBER	13	NCERT CHEMISTRY (I)	6.	EQUILIBRIUM	168-204
NOVEMBER	20	NCERT CHEMISTRY (I)	6.	EQUILIBRIUM	168-204
		NCERT CHEMISTRY (II)	8.	ORGANIC CHEMISTRY: SOME BASIC PRINCIPLES AND TECHNIQUES	256-285
DECEMBER	24	NCERT CHEMISTRY (II)	8.	ORGANIC CHEMISTRY: SOME BASIC PRINCIPLES AND TECHNIQUES	256-285
		REVISION + PT-III EXAM			
JANUARY	22	NCERT CHEMISTRY (II)	9.	HYDROCARBONS	295-325
FEBRUARY	22	REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- COMPUTER SCIENCE

MONTH	NO. OF WORKING DAYS	NAME OF BOOK	CHAPTER'S NO.	TOPIC	PAGE NO.
APRIL	20	COMPUTER SCIENCE WITH PYTHON	2	Familiarization with the basics of Python programming:	
MAY	15	COMPUTER SCIENCE WITH PYTHON	3	Knowledge of data types:	
		COMPUTER SCIENCE WITH PYTHON	4	Operators:	
JUNE	08	COMPUTER SCIENCE WITH PYTHON	5	Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow	
		REVISION + PT-I EXAM			
JULY	25	COMPUTER SCIENCE WITH PYTHON	5	Conditional statements:	
AUGUST	25	COMPUTER SCIENCE WITH PYTHON	5	Iterative Statement	
		COMPUTER SCIENCE WITH PYTHON	6	Strings:	
SEPTEMBER	15	COMPUTER SCIENCE WITH PYTHON	7	Lists:	
		REVISION + PT-II EXAM			
OCTOBER	13	COMPUTER SCIENCE WITH PYTHON	8	Tuples:	
NOVEMBER	20	COMPUTER SCIENCE WITH PYTHON	9	Dictionary	
		COMPUTER SCIENCE WITH PYTHON	10	Introduction to Python modules:	
DECEMBER	24	COMPUTER SCIENCE WITH PYTHON	1	Computer Systems and Organisation	
		REVISION + PT-III EXAM			
JANUARY	22	COMPUTER SCIENCE WITH PYTHON	11	Society, Law and Ethics	
FEBRUARY	22	REVISION			
MARCH	07	REVISION + ANNUAL EXAM			

SUBJECT- DANCE

Month	No. of Working Days	Topic
APRIL	20	A brief history of Indian dance.
MAY	15	Acquaintance with the themes of Ramayana, Mahabharataa,
		Bhagvata Purana and Gita Govinda in context of Kathak.
		Acquaintance with other myths and legends pertinent to the dance
JUNE	08	Drama or gat bhaav like Kalia daman ,Govardhan lila ,Panghatlila,
		Drapadi cheer haran , Makhan chori, Marich vadh, Bhasmasur vadh ,Madan dahan, etc
		REVISION + PT-I EXAM
JULY	25	A brief history of Kathak dance.
		(a) Reference from ancient text (vedic, puranic, epics and other Scriptures).
		Evolution of Kathak dance in Pracheen kal/Mandir kal (kathavachak and Rasdhar tradition,etc.)Madhyakal /Darbarkal, Adhunik kal covering British and post independent era till the Present time.
AUGUST	25	Acquaintance with its repertoire.
		Rang pravesh/invocation, compositions (Bandish) from traditional
		Technical dance part of kathak .Literary contents-abhinay ,bhajans, Literary contents -abhinay, bhajans, Thumri ,dadra ,ghazals ,dhrupad ,kavit ,etc .Rhythmic musical Composition like Tarana ,Tirvat ,Chaturang ,etc.
SEPTEMBER	15	Distinctive aspects of Kathak (using of ghungrus)
		Distinctive aspects of Kathak (using of chakkars)
		REVISION + PT-II EXAM
OCTOBER	13	Distinctive aspects of Kathak (using of upaj)Distinctive aspects of Kathak (using of costume etc)
NOVEMBER	20	Ability to write notation of teental (thah, dugun,chaugun).
		Ability to write notation of jhaptal (thah, dugun,chaugun).
DECEMBER	24	Definition and short explanation: Nritta, Nritya,
		Definition and short explanation: Natya, Tandava,
		REVISION + PT-III EXAM
JANUARY	22	Definition and short explanation: Lasya, Anga,
		Definition and short explanation: Upanga, Pratyanga.
FEBRUARY	22	REVISION
MARCH	07	REVISION + ANNUAL EXAM