



St. XAVIER'S HIGH SCHOOL
EDUCATION FOR ALL

BANKURA, WB
Affiliation No.: 2430130

Affiliated to CBSE (New Delhi) 10+2 level
School Code: 15720

SYLLABUS FOR THE SESSION 2025-26

CLASS: XII (SCIENCE)

SUBJECT- ENGLISH

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	FLAMINGO (PROSE)	1	THE LAST LESSON	2-12
		VISTAS	1	THE THIRD LEVEL	1-7
		WRITING SKILLS	-	NOTICE WRITING	-
		FLAMINGO (POETRY)	1	MY MOTHER AT SIXTY-SIX	90-91
		FLAMINGO (PROSE)	2	LOST SPRING	23-31
MAY	17	VISTAS	2	THE TIGER KING	8-17
		WRITING SKILLS	-	INVITATION WRITING	-
		FLAMINGO (POETRY)	3	KEEPING QUIET	95-97
		FLAMINGO (PROSE)	3	DEEPWATER	23-31
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I	VISTAS	3	JOURNEY TO THE END OF THE EARTH	18-23
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I	FLAMINGO (PROSE)	4	THE RATTRAP	32-45
		FLAMINGO (POETRY)	4	A THING OF BEAUTY	98-99
		WRITING SKILLS	-	EDITORIAL LETTER AND JOB APPLICATION LETTER	-
		VISTAS	4	THE ENEMY	24-47

		FLAMINGO (PROSE)	5	INDIGO	46-56
AUGUST	23	FLAMINGO (POETRY)	5	A ROADSIDE STAND	100-102
		WRITING SKILLS	-	ARTICLE WRITING	-
		VISTAS	6	ON THE FACE OF IT	56-69
		FLAMINGO (PROSE)	6	POETS AND PANCAKES	57-67
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14	FLAMINGO (POETRY)	6	AUNT JENNIFER'S TIGERS	103
		VISTAS	8	MEMORIES OF CHILDHOOD	93
NOVEMBER	24	FLAMINGO (PROSE)	7	THE INTERVIEW	68-76
		FLAMINGO (PROSE)	8	GOING PLACES	77
		WRITING SKILLS	-	REPORT WRITING	---
		REVISION	-	REVISION	--
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III	REVISION	-	REVISION	-
JANUARY	20	REVISION	-	REVISION	-
FEBRUARY	23	REVISION			
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)			

SUBJECT- PHYSICS

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	NCERT PHYSICS (PART-1)	1	ELECTRIC CHARGES AND FIELDS	1-33
			2	ELECTROSTATIC POTENTIAL AND CAPACITANCE	45-73
			3	CURRENT ELECTRICITY	81-100

MAY	17	NCERT PHYSICS (PART-1)	4	MOVING CHARGES AND MAGNETISM	107-129
			5	MAGNETISM AND MATTER	136-147
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I	NCERT PHYSICS (PART-1)		REVISION +PT-1 EXAM	
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I	NCERT PHYSICS (PART-1)	6	ELECTROMAGNETIC INDUCTION	154-170
			7	ALTERNATING CURRENT	177-194
AUGUST	23	NCERT PHYSICS (PART-1 &2)	8	ELECTROMAGNETIC WAVES	201-215
			9	RAY OPTICS AND OPTICAL INSTRUMENTS	221-240
			10	WAVE OPTICS	255-269
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14	NCERT PHYSICS (PART-2)	11	DUAL NATURE OF RADIATION AND MATTER	274-284
			12	ATOMS	290-301
NOVEMBER	24	NCERT PHYSICS (PART- 2)	13	NUCLEI	306-314
			14	SEMICONDUCTOR AND ELECTRONIC DEVICES	323-338
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III	NCERT PHYSICS (PART-1 &2)		FULL REVISION + PREBOARD EXAMINATION	
JANUARY	20	NCERT PHYSICS (PART-1 & 2)		FULL REVISION	
FEBRUARY	23	REVISION			
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)			

SUBJECT- CHEMISTRY

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	NCERT CHEMISTRY BOOK PART -I	4	THE d- AND f- BLOCK ELEMENTS	215-243
		NCERT CHEMISTRY BOOK PART -I I	10	BIOMOLECULES	411-432
MAY	17	NCERT CHEMISTRY BOOK PART -II	6.	HALOALKANES AND HALOARENES	289-356
		NCERT CHEMISTRY BOOK PART -I	3.	CHEMICAL KINETICS	95-148
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I	NCERT CHEMISTRY BOOK PART -I & II	3,4,6 & 10	REVISION OF THE d- AND f- BLOCK ELEMENTS HALOALKANES AND HALOARENES CHEMICAL KINETICS BIOMOLECULES	215-243 289-356 95-148 411-432
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I	NCERT CHEMISTRY BOOK PART -I	5.	COORDINATION COMPOUNDS	244-265
		NCERT CHEMISTRY BOOK PART -II	7.	ALCOHOLS, PHENOLS AND ETHERS	323-356
AUGUST	23	NCERT CHEMISTRY BOOK PART -I	2.	ELECTROCHEMISTRY	65-90
		NCERT CHEMISTRY BOOK PART- II	9.	AMINES	389-410
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14	NCERT CHEMISTRY BOOK PART - I	1.	SOLUTIONS	35-64
NOVEMBER	24	NCERT CHEMISTRY BOOK PART -II	8.	ALDEHYDES, KETONES AND CARBOXYLIC ACIDS	357-388
DECEMBER	12(+8) = 20	NCERT CHEMISTRY BOOK PART I & II	1,2,3,4,5,6,7,8, 9&10	REVISION OF ALL CHAPTERS AND PRE BOARD EXAMINATION	

	(15.12.2025 to 23.12.2025) UT-II / PT-III			
JANUARY	20			
FEBRUARY	23	REVISION		
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)		

SUBJECT- MATHEMATICS

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	Relations and Functions	01	Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.	1-7
		Inverse Trigonometric Functions	02	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	33-42
MAY	17	Matrices	03	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2).	56-85

JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I	Determinants	04	Determinant of a square matrix (up to 3 x 3 matrices), minors, cofactors and applications of determinants in finding the area of a triangle.	103
				Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix	126
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I	Continuity and Differentiability	05	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, <i>like</i> $\sin^{-1} x$, $\cos^{-1} x$ and $\tan^{-1} x$, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.	147-181
		Applications of Derivatives	06	Applications of derivatives: rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real life situations)	194-216
		Integrals	07	Integration as inverse process of differentiation. Integration of a variety of functions by	287-307

				substitution, by partial fractions and by parts	
AUGUST	23	Integrals		, Evaluation of simple integrals of the following types and problems based on them. $\int dx x^2 \pm a^2$, $\int dx \sqrt{x^2 \pm a^2}$, $\int dx \sqrt{a^2 - x^2}$, $\int dx ax^2 + bx + c$, $\int dx \sqrt{ax^2 + bx + c}$ $\int \frac{px + q}{ax^2 + bx + c} dx$, $\int \frac{px + q}{\sqrt{ax^2 + bx + c}} dx$, $\int \frac{1}{\sqrt{a^2 \pm x^2}} dx$, $\int \frac{1}{\sqrt{x^2 - a^2}} dx$, $\int \frac{1}{\sqrt{ax^2 + bx + c}} dx$, Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	247-341
		Applications of the Integrals	08	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only	346-357
		Differential Equations	09	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equations of the type: Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type:	379-391

$dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants.

SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14	Vectors	10	BASIC CONCEPT ,TYPES OF VECTORS,ADDITION OF VECTORS, MULTIPLICATION OF TWO VECTORS. PRODUCT OF TWO VECTORS	424-441
		Three - dimensional Geometry Linear Programming	11&12	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines. Introduction ,objective function, constraints, feasible region, working rule for LPP.	463-479
NOVEMBER	24	Probability	13	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable	531-557
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III			SAMPLE PAPER	
JANUARY	20			SAMPLE PAPER	
FEBRUARY	23	REVISION			
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)			

SUBJECT- BIOLOGY

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	A TEXTBOOK OF BIOLOGY XII NCERT	2	SEXUAL REPRODUCTION IN FLOWERING PLANTS	19-41
			3	HUMAN REPRODUCTION	42-56
MAY	17	A TEXTBOOK OF BIOLOGY XII NCERT	3	HUMAN REPRODUCTION (CONTD.)	42-56
			4	REPRODUCTIVE HEALTH	57-66
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I	A TEXTBOOK OF BIOLOGY XII NCERT	4	REPRODUCTIVE HEALTH(COND.)	57-66
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I	A TEXTBOOK OF BIOLOGY XII NCERT	5	PRINCIPLES OF INHERITANCE AND VARIATION	69-94
			6	MOLECULAR BASIS OF INHERITANCE	95-125
AUGUST	23	A TEXTBOOK OF BIOLOGY XII NCERT	6	MOLECULAR BASIS OF INHERITANCE (CONTD.)	95-125
			7	EVOLUTION	126-142
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14	A TEXTBOOK OF BIOLOGY XII NCERT	8	HUMAN HEALTH AND DISEASE	145-164
NOVEMBER	24	A TEXTBOOK OF BIOLOGY XII NCERT	10	MICROBES IN HUMAN WELFARE	179-190
			11	BIOTECHNOLOGY PRINCIPLES AND PROCESSES	193-206
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III	A TEXTBOOK OF BIOLOGY XII NCERT	12	BIOTECHNOLOGY AND ITS APPLICATIONS	207-216
			13	ORGANISMS AND POPULATIONS	219-240
JANUARY	20	A TEXTBOOK OF BIOLOGY XII NCERT	14	ECOSYSTEM	241-257
			15	BIODIVERSITY AND CONSERVATION	258-269
FEBRUARY	23	REVISION			
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)			

SUBJECT- PHYSICAL EDUCATION

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	Health and Physical Education	01 Management of Sporting events	Functions of sports events management.	1.2-1.3
				Various committees and their responsibilities	1.4-1.7
				Procedure to draw fixture	1.8-1.27
				Intramural and Extramural	1.28-1.32
				Community sports	1.33-2.0
MAY	17	Health and Physical Education	02 Children and women in Sports	Exercise guidelines of WHO for different age groups	2.1-2.4
				Common postural deformities	2.5-2.15
				Women's participation in sports Special consideration Female athletes Triad	2.16-2.17 2.18 2.19
			03 Yoga as preventive measure for lifestyle disease	Obesity	3.1-3.09
				Diabetes	3.10-3.19
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I	Health and Physical Education	03 Yoga as preventive measure for lifestyle disease	Asthma	3.20-3.28
				Hypertension	3.29-3.38
			Revision	Unit-01	
			Revision	Unit-02	

JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I	Health and Physical Education	04 Physical Education and sports for CWSN	Organization promoting for Disability sports Concept of classification and divisioning in sports,inclusion in sports, need and implementation	4.2-4.8 4.9-4.16
				Advantages of physical activities for child with special need.	4.17-4.18
				Strategis to make physical activities assessable for children with special need.	4.19-5.0
			05 Sports and Nutrition	Concept of balance diet and food	5.1
				Macro and micro nutrients	5.2-5.10
AUGUST	23	Health and Physical Education	05 Sports and Nutrition	Nutritive and non- nutritive components of diets	5.11-5.17
				Eating for weight control	5.18-5.25
				Importance of Diet in sports	5.26-6.0
			06 Test and measurement in sports	Fitness Test	6.2-6.10
				Measurement of Cardio-vascular fitness	6.11-6.13
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14	Health and Physical Education	06 Test and measurement in sports	Computing Basal Metabolic Rate(BMR)	6.14-6.15
				Rikli and Jones-senior citizen fitness test	6.16-6.22
				Johnsen-Methney test for motor Educability	6.23-7.0
			07 Physiology and Injuries in sports	Physiological factors determining components of Physical fitness	7.1-7.6

				Effect of exercise on muscular system	7.7-7.8	
				Effect of exercise on Cardio-respiratory system Physiological changes due to aging	7.9-7.10 7.11-7.13	
NOVEMBER	24	Health and Physical Education	07	Physiology and Injuries in sports	Sports injuries	7.14-8.0
			08	Biomechanics and Sports	Newton's law of motion and their application in sports	8.2-8.3
					Types of levers and their application in sports	8.3-8.5
					Equilibrium	8.6-8.9
					Friction and Sports	
		Projectile in Sports				
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III	Health and Physical Education	09	Psychology and Sports	Personality: it's definition and types	
					Meaning, concept and types of aggression in sports	
					Psychological attribute in sports.	
			Revision		Unit-3 to 5	
			Revision		Unit-6 to 9	
JANUARY	20	Health and Physical Education	10	Training in Sports	Concept of Talent identification and Talent development in sports	
					Introduction to sports training cycle	
					Types of method to develop: strength, endurance, speed, flexibility and coordinative ability	
FEBRUARY	23	REVISION				
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)				

SUBJECT- COMPUTER SCIENCE

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20	COMPUTER SCIENCE WITH PYTHON	1	REVISION PYTHON OF CLASS XI.	1-28
			2	COMPUTATIONAL THINKING AND PROGRAMMING – 2 - REVISION OF PYTHON TOPICS COVERED IN CLASS XI.	41-74
			3	FUNCTIONS- INTRODUCTION, TYPES OF FUNCTION (BUILT- IN FUNCTIONS, FUNCTIONS DEFINED IN MODULE, USER DEFINED FUNCTIONS)	91-103
MAY	17		3	FUNCTIONS: CREATING USER DEFINED FUNCTION, ARGUMENTS AND PARAMETERS, DEFAULT PARAMETERS, POSITIONAL PARAMETERS, FUNCTION RETURNING VALUE(S), FLOW OF EXECUTION, SCOPE OF A VARIABLE (GLOBAL SCOPE, LOCAL SCOPE)	104-152
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I			REVISION	
				PERIODIC TEST-1	
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I		6	EXCEPTION HANDLING: INTRODUCTION, HANDLING EXCEPTIONS USING TRY- EXCEPT-FINALLY BLOCKS	259-275
			7	DATA STRUCTURE: STACK AND ITS OPERATIONS USING LIST, IMPLEMENTATION OF STACK USING LIST. (INFIX TO POSTFIX CONVERSION USING STACK, EVALUATION OF POSTFIX EXPRESSION USING STACK.)	277-314
AUGUST	23		5	DATA FILE HANDLING: INTRODUCTION TO FILES, TYPES OF FILES (TEXT FILE, BINARY FILE, CSV FILE), RELATIVE AND ABSOLUTE PATHS. • TEXT FILE OPERATIONS • BINARY FILE OPERATIONS • CSV FILE OPERATIONS	187-258
			11 & 12	DATABASE MANAGEMENT • DATABASE CONCEPTS, • RELATIONAL DATA MODEL • STRUCTURED QUERY LANGUAGE: SQL QUERIES BASED ON DDL, DML COMMANDS AND AGGREGATE FUNCTIONS. • STRUCTURED QUERY	449-518

				LANGUAGE: JOIN OPERATIONS	
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM			
OCTOBER	14		14	INTERFACE OF PYTHON WITH AN SQL DATABASE	541-562
NOVEMBER	24		8 & 9	COMPUTER NETWORKS: EVOLUTION OF NETWORKING, DATA COMMUNICATION TERMINOLOGIES, TRANSMISSION MEDIA, NETWORK TOPOLOGIES AND NETWORK TYPES. NETWORK DEVICES, NETWORK PROTOCOL, INTRODUCTION	329-410
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III	FULL REVISION + PREBOARD EXAM			
JANUARY	20	FULL REVISION			
FEBRUARY	23	FULL REVISION+ BOARD EXAM			
MARCH	NIL	BOARD EXAM			

SUBJECT- DANCE

MONTH	NO. OF WORKING DAYS	NAME OF THE BOOK (S)	CHAPTER NO. (S)	TOPIC (S)	PAGE NO. (S)
APRIL	20			A brief history with other classical dance styles of India.	
MAY	17			Basic understanding of the term ABHINAYA and definition of its four aspects: angika, vachika, aharya, satvika.	
JUNE	05+(1) = 06 (30/06/2025) UT-I/PT-I			Aquittance of the three gharanas of kathak dance (Lucknow, Jaipur, Banaras)	
JULY	20+(6) = 26 (01.07.2025 to 07.07.2025) UT-I/PT-I			Rasa: definition and explanation of nine rasas.	
AUGUST	23			Knowledge of the following terms: (short note) sangeet, tal, laya,	

			angahara,bhramari, lokadharmi, natyadharmi, rasa and bhava.	
			<p>Knowledge of the technical terminology of the dance form.</p> <p>a) Definition of the following:</p> <p>i) Vandana</p> <p>ii) Tihaayi</p> <p>iii) Aamad</p> <p>iv) Toda/Tukraa</p> <p>v) Paran</p> <p>vi) Chakardar Toda /Tukraa andParan</p> <p>vii) Gatnikas</p> <p>viii) Gatbhaav</p>	
SEPTEMBER	13 (18.09.2025 to 26.09.2025) T-I/PT-II	REVISION + TERM-I EXAM		
OCTOBER	14		<p>b) Knowledge of Theka of Dadra, Kaharwa, Roopak.</p> <p>c) Definition of Tali, Khali, Sam, Tihaayi.</p> <p>d) Ability to notate a Tukraa/Toda and Paran.</p>	
NOVEMBER	24		<p>Acquaintance with the traditional costumes and makeup.</p>	
DECEMBER	12(+8) = 20 (15.12.2025 to 23.12.2025) UT-II / PT-III		REVISION +PRE BOARD	
JANUARY	20		REVISION	
FEBRUARY	23	REVISION		
MARCH	NIL	TERM-II / ANNUAL EXAM (2025-26)		