



Delhi Public School, Barasat

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CBSE Affiliation No. 2430391

TERMWISE SYLLABUS (2026-27)

CLASS-XII

STREAM- SCIENCE

SUBJECT- ENGLISH CORE (301)

Months	Theory	Practical
UT 1		
April to June	<u>FLAMINGO</u> 1. The Last Lesson 2. Deep Water 3. Lost Spring 4. The Rattrap 5. Keeping Quiet 6. My Mother at Sixty Six 7. Indigo <u>VISTAS</u> 1. The Third Level 2. The Enemy <u>Short Writing</u> 1. Notice Writing <u>Long Writing</u> 1. Article Writing 2. Formal Letter Writing 3. Report Writing <u>Reading</u> 1. Comprehension- Factual/ Case Based	SEA Projects (Topics to be assigned in class)
HALF YEARLY EXAMINATION		
July to Aug	<u>FLAMINGO</u> 1. A Thing of Beauty 2. Aunt Jennifer's Tigers 3. Poets and Pancakes 4. The Roadside Stand <u>VISTAS</u> 1. On the Face of It 2. The Tiger King <u>Short Writing</u> 1. Notice Writing	SEA Projects (Topics to be assigned in class), ALS Project





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	2. Invites and Replies <u>Long Writing</u> 1. Article Writing 2. Formal Letter Writing 3. Report Writing 4. Job Application <u>Reading</u> 1. Comprehension- Factual/ Case Based/ Literary/ Descriptive (The entire UT 1 syllabus will be included in Half-Yearly Examination)	
UT2		
Sept to Nov	<u>FLAMINGO</u> 1. Going Places 2. The Interview <u>VISTAS</u> 1. Journey to the End of the Earth 2. Memories of Childhood- Cutting of My Long Hair -We Too are Human Beings <u>Short Writing</u> 1. Notice Writing 2. Invites and Replies <u>Long Writing</u> 1. Article Writing 2. Formal Letter Writing 3. Report Writing 4. Job Application <u>Reading</u> 1. Comprehension- Factual/ Case Based/ Literary/ Descriptive (The entire UT 1 and Half-Yearly syllabus will be included in UT 2)	SEA Projects (Topics to be assigned in class), ALS Project
ANNUAL EXAMINATION		
Dec to Feb	Entire syllabus as per the guidelines of CBSE for the session 2026-2027	Final ALS Project



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SUBJECT- PHYSICS (042)

Months	Theory	Practical
UT 1		
April to June	1.Chapter-1: Electric Charges and Fields 2.Chapter-2: Electrostatic Potential and Capacitance 3.Chapter-3: Current Electricity 4.Chapter-4: Moving Charges and Magnetism Chapter-5: Magnetism and Matter	1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current. 2. To find resistance of a given wire / standard resistor using metre bridge. 3. To verify the laws of combination (series) of resistances using a metre bridge. 4. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. 5. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 6. To assemble the components of a given electrical circuit. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
HALF YEARLY EXAMINATION		
July to Aug	1. Chapter-6: Electromagnetic Induction 2. Chapter-7: Alternating Current 3. Chapter-8: Electromagnetic Waves Chapter-9: Ray Optics and Optical Instruments	1. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 2. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.





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		3. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. To study the nature and size of the image formed by a (i) convex lens, or (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
UT2		
Sept to Nov	1. Chapter-10: Wave Optics 2. Chapter-11: Dual Nature of Radiation and Matter 3. Chapter-12: Atoms 4. Chapter-13: Nuclei 5. Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits	1. To determine refractive index of a glass slab using a travelling microscope. 2. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias. 3. Use of multimeter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order. 4. To observe diffraction of light due to a thin slit. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
ANNUAL EXAMINATION		
Dec to Feb	Entire syllabus	All Practical done throughout the session

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SUBJECT- CHEMISTRY (043)

Months	Theory	Practical
UT 1		
April to June	1. Solution 2. Electrochemistry 3. Haloalkanes and Haloarenes	Determination of one anion and one cation in a given salt Identification of Cations- Pb^{2+} , Cu^{2+} , As^{3+} , Al^{3+} , Fe^{3+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Co^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+
HALF YEARLY EXAMINATION		
July to Aug	1. Coordination compounds 2. d and f-block elements All the chapters from UT-1 will be included	Identification of Anions – CO_3^{2-} , S^{2-} , NO_2^- , SO_3^{2-} , SO_4^{2-} , NO_3^- , Cl^- , Br^- , I^- , PO_4^{3-} , CH_3COO^- (Note: Insoluble salts excluded)
UT2		
Sept to Nov	1. Alcohol, Phenol and Ether 2. Aldehyde, Ketone and acid 3. Amines	Titration: 1. KMnO_4 vs Mohr salt 2. KMnO_4 vs Oxalic acid
ANNUAL EXAMINATION		
Dec to Feb	1. Biomolecules 2. Chemical Kinetics All chapters from half yearly and UT 2 will be included	Identification of Organic functional gr and unsaturation 2. Test for Fat, Protein and carbohydrate

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SUBJECT- BIOLOGY (044)

Months	Theory	Practical
UT 1		
April to June	UNIT-VI Sexual Reproduction in Flowering plants Human Reproduction Reproductive Health UNIT- VII Genetics and Evolution Principle of Inheritance and Variation	Spotting 1. Flowers adapted to pollination by different agencies (wind, insects, birds). 2. Pollen germination on stigma through a permanent slide or scanning electron micrograph. 3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides(from grasshopper/mice). 4. Meiosis in onion bud cell or grasshopper testis through permanent slides. 5. T.S. of blastula through permanent slides (Mammalian). 6. Mendelian inheritance using seeds of different colour/sizes of any plant. 7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness. 8. Controlled pollination emasculation, tagging and bagging.
HALF YEARLY EXAMINATION		
July to Aug	Molecular Basis of Inheritance Theory of evidence of Evolution UNIT-VIII Biology in Human welfare Microbes in Human Welfare	1. Prepare a temporary mount to observe pollen germination. 2. Study the plant population density by quadrat method. 3. Study the plant population frequency by quadrat method. 4. Prepare a temporary mount of onion root tip to study mitosis.
UT2		



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Sept to Nov	Human Health and Diseases UNIT-IX AND X Biotechnology - Principles and Processes Biotechnology and its Applications UNIT-X Ecology and Environment Organisms and Populations Ecosystem Biodiversity and its Conservation	1, Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause. 2. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc
ANNUAL EXAMINATION		
Dec to Feb	Revision Pre Board 1 and 2	

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SUBJECT- PSYCHOLOGY (037)

Months	Theory	Practical
UT 1		
April to June	1. Variations in Psychological Attributes 2. Self and Personality	1. On Intelligence 2. Project- Case Study
HALF YEARLY EXAMINATION		
July to Aug	1. Meeting Life Challenges 2. Psychological Disorders 3. Therapeutic Approaches	1. On Personality 2. STAI (On Anxiety)
UT2		
Sept to Nov	1. Attitude and Social Cognition 2. Social Influence and Group Processes 3. Revision work	1. On Adjustment 2. On Self Concept
ANNUAL EXAMINATION		
Dec to Feb	1. Revision (Full Syllabus of CBSE) 2. Preboard 1 and 2	1. Overall Revision.

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SUBJECT- COMPUTER SCIENCE (083)

Months	Theory	Practical
UT 1		
April to June	1. Revision of Python topics covered in Class XI. 2. Functions 3. Exception Handling 4. Stack	1. Revision tour on Loop, List, Tuple and Dictionary. 2. Introduction, handling exceptions using try-except-finally blocks 3. Stack, operations on stack (push, pop, peek), implementation of stack using list.
HALF YEARLY EXAMINATION		
July to Aug	1. File Handling 2. Introduction to Database Management System and SQL	1. Handling of three types of files. i.e. Text File, Binary File and CSV File. 2. Functions of File handling Programs. 3. Pickle module and csv module. 4. Introduction to Database. 5. SQL Queries like create table, insert, update, delete, alter table, drop table, select etc.
UT2		
Sept to Nov	1. Computer Networks 2. Database Management System and Python Database Connection interface. 3. Revision work	1. Introduction to Computer Network. 2. LAN, MAN, WAN and types of networks. 3. Network devices. 4. Switching techniques. 5. Protocols and etc. 6. Revision work on DBMS. 7. Python database connection interface using mysql.connector module.
ANNUAL EXAMINATION		
Dec to Feb	1. Revision (Full Syllabus of CBSE) 2. Preboard 1 and 2	1. Overall Revision.



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SUBJECT- PHYSICAL EDUCATION (048)

Months	Theory	Practical
UT 1		
April to June	1. Management of Sporting Events 2. Children and Women in Sports 3. Yoga as Preventive measure for Lifestyle Disease	1. Physical Fitness Test: SAI Khelo India Test 2. 2 Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of Choice)
HALF YEARLY EXAMINATION		
July to Aug	4. Physical Education & Sports for (CWSN) 5. Sports & Nutrition 6. Test and Measurement in Sports	3. Yogic Practices 4. Record Files
UT2		
Sept to Nov	7. Physiology & Injuries in Sport 8. Biomechanics and Sports 9. Psychology and Sports 10. Training in Sport	Revision of all practical works
ANNUAL EXAMINATION		
Dec to Feb	Revision of all chapters	Revision of all practical works

**** SUBJECT TO CHANGE**

SUBJECT- MATHEMATICS (041)

Months	Theory	Practical
UT 1		
April to June	1. Inverse Trigonometric Ratios 2. Differentiation 3. Application Of Derivatives	Project file
HALF YEARLY EXAMINATION		



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July to Aug	1. Integrals 2. Application Of Integrals 3. Differential Equation	Project file
UT2		
Sept to Nov	1. Vectors 2. Three -Dimensional Geometry 3. Linear Programming 4. Probability 5. Matrices And Determinants 6. Continuity And Differentiability 7. Relation And Function	Project file
ANNUAL EXAMINATION		
Dec to Feb	1. Revision	Project file

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23/4/26
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