

SYLLABUS (2025-26)

CLASS -12

SUBJECT – PHYSICS

PRESCRIBED BOOK – PHYSICS TEXT BOOK

PUBLISHER – NCERT

MONTH	Ch No. /Ch Name	ACTIVITY/PRACTICAL	PEDAGOGY USED
Term 1			
APRIL	1.ELECTRIC CHARGES AND FIELDS (PT-1) 2.ELECTROSTATIC POTENTIAL AND CAPACITANCE (PT-1)	(i)To assemble a household circuit comprising three bulbs, three (on/off) switches ,a fuse and a power source (ii)To assemble component of given electrical circuit .	EXPERIENTIAL LEARNING
MAY	3. CURRENT ELECTRICITY (PT -2) 4. MOVING CHARGES AND MAGNETISM (PT -2)	i) To determine resistivity of two / three wires by plotting a graph for potential Difference versus current. (ii) To find resistance of a given wire / standard resistor using metre bridge. (iii) To verify the laws of combination (series) of resistances using a metre bridge. OR To verify the laws of combination (parallel) of resistances using a metre bridge.	HANDS ON LEARNING
JUNE	5 .MAGNETISM AND MATTER (H.Y.E)	To draw the diagram of given circuit comprising of at least a battery ,a resistor, a rheostat, a key an ammeter and a voltmeter . Mark the component that are not connected in proper order and correct the circuit and also the circuit diagram	STEAM EDUCATION
JULY	6.ELECTROMAGNETIC INDUCTION(H.Y.E) 7. ALTERNATING CURRENT.(H.Y.E) 8.ELECTROMAGNETIC INDUCTION (H.Y.E)	i) To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.	LIFE SKILL EDUCATION
AUGUST	9.RAY OPTICS (PT-3) REVISION FOR H.Y..E	l)To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$	ENQUIRY BASED LEARNING
PT 1 AND PT 2 SYLLABUS WILL BE INCLUDED IN H.Y.E.			
SEPTEMBER	10. WAVE OPTICS	l)To determine refractive index of a glass slab using a travelling microscope.	COLLABORATIVE LEARNING

	11. DUAL NATURE OF RADIATION AND MATTER .	(ii) To determine angle of minimum deviation for a given prism by plotting a graph. between angle of incidence and angle of deviation.	
OCTOBER	12. ATOM 13. NUCLEI	(i) To observe diffraction of light due to thin slit. (ii) To study the nature and size of the image formed by a (a) convex lens, Or (b) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror)	EXPERIENTIAL LEARNING
NOVEMBER	14. Semiconductor	(i) To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias. (ii) To identify a diode , an LED , a resistor and a capacitor from a mixed collection of these items.	ICT LEARNING
DECEMBER	PRE BOARD 1 (COMPLETE SYLLABUS AS PER CBSE GUIDELINE)		
JANUARY	PRE BOARD 2 (COMPLETE SYLLABUS AS PER CBSE GUIDELINE)		
FEBRUARY	BOARD EXAM		

SYLLABUS (2025-26)

SUBJECT- CHEMISTRY (043)

CLASS XII

PRESCRIBED BOOK:- CHEMISTRY XII, N.C.E.R.T

Month	Ch. No/ Ch. Name	Activities/ Practical	Pedagogy used
TERM-I			
April	1- Solutions(P.T.1) 2- Electro chemistry (P.T.1)	I. To prepare 250 ml of M/20 solution of oxalic acid and Mohr's salt. II. To prepare 250 ml of M/20 solution of Mohr's salt, by using this solution find out the molarity and strength of given unknown KMnO ₄ solution. III. To set up simple Daniell cell and determined its EMF	Experiential learning Hands on learning and steam education
May	3- Chemical kinetics(P.T.2)	IV. To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid.	Steam education
June	4-d and f – block elements(P.T.2)	V. To determine one acidic and one basic radical from given unknown inorganic salt sample	Experiential learning
July	5-Coordination compound(H.Y.E.)	VI. Preparation of inorganic compounds (Mohr's salt, Fitkari)	Experiential learning
August	6- Haloalkane and Haloarene(H.Y.E.)		
PT 1 AND PT 2 PORTION WILL BE INCLUDED IN HALF YEARLY EXAMINATION.			
TERM-II			
September	7-Alcohol, Phenol and ethers(P.T.3) 8- Aldehyde, Ketone and Carboxylic Acid (P.T.3)	VII. To determine functional group from give unknown organic compound.	Experiential learning
October	9-Amines 10-Biomolecules	VIII. To determine functional group from given unknown organic compound	Experiential learning
November	Project work+Revision		Steam education
December	Pre- Board1 (All the chapters of P.T.1, P.T.2,P.T.3 and HLY exam)		
January	Pre-Board 2		
February	Board Exam		

SYLLABUS (2025-26)

CLASS:- XII

SUB:- MATHEMATICS (041)

PRESCRIBED BOOK:- TEXTBOOK FOR CLASS XII

PUBLISHER:- NCERT

MONTH	CH.NO/CH NAME	ACTIVITIES	PEDAGOGY USED
TERM - 1			
April	1. Matrices (P.T.1)	To relate the matrices with real life.	Collaborative Learning
	2. Determinants (P.T.1)	To find the inverse of the matrix using determinant method	Question Based Learning
May	3. Relations and Functions (P.T.2)	To verify that the relation in the set L of all lines in a plane, defined by $R = \{(l, m)\}$ is a symmetric but neither reflexive nor transitive	Concept Mapping
June	4. Inverse Trigonometric Function (P.T.2)	To draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection.	Experimental Learning
July	5. Continuity and Differentiability (H.Y.E.)	To find analytically the limit of function $f(x)$ at $x = c$ and also to check the continuity of a function at that point	Problem Based Learning
	6. Application of Derivatives (H.Y.E.)	To understand the concept of increasing and decreasing function.	Collaborative Learning
PT 1 AND PT 2 SYLLABUS WILL ALSO BE INCLUDED.			
TERM-2			
August	7. Integrals (P.T.3)	from a given rectangular sheet by cutting equal squares from each corner.	Problem Based Learning
	8. Application of Integrals (P.T.3)	To evaluate the definite integral $\int_a^b \sqrt{1-x^2}$ as the limit of a sum and verify it by actual integration as limit of sum	Experimental Learning
September	9. Differential Equations		
	10. Vector Algebra	To verify geometrically $Cx(a+b) = Cx a + Cx b$ To verify that angle in a semi circle is a right angle using vector method.	Concept Mapping Concept Mapping
October	11. Three Dimensional Geometry	To demonstrate the equation of a plane in normal form.	Problem Based Learning
	12. Linear Programming Problem (LPP)	To find the area of feasible region (bounded) of given Linear Equation.	Concept Mapping
	13. Probability	To explain the computation of conditional probability of a given event A when event B has already occurred through an example of throwing a pair of dice	Collaborative Learning
NOVEMBER	REVISION		
DECEMBER	PRE BOARD 1 (All Chapters)	Chapter 01 to Chapter 13	
JANUARY	PRE BOARD 2 (All Chapters)	Chapter 01 to Chapter 13	

SYLLABUS (2025-26)

CLASS -12

SUBJECT-BIOLOGY(044)

PRESCRIBED BOOK: - 1. BIOLOGY TEXTBOOK FOR CLASS 12

PUBLISHER- NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

MONTH	CH. NO/CH. NAME	ACTIVITIES	PEDAGOGY
TERM-1			
APRIL	CH-1 SEXUAL REPRODUCTION IN FLOWERING PLANTS(PT-1)	1. Study pollen germination on a slide. 2. Flowers adapted to pollination by different agencies (wind, insects, birds).	EXPERIENTIAL LEARNING
	CH-2 HUMAN REPRODUCTION (PT-2)	3. T.S. of blastula through permanent slides (Mammalian).	LIFE SKILL EDUCATION
MAY	CH-3 REPRODUCTIVE HEALTH(PT-2)	4. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides	EXPERIENTIAL LEARNING
	CH-4 PRINCIPLES OF INHERITANCE AND VARIATION (HYE)	5. Mendelian inheritance using seeds of different colour/sizes of any plant.	LIFE SKILL EDUCATION
JUNE	CH-5 MOLECULAR BASIS OF INHERITANCE (HYE)	6. Prepare a temporary mount of onion root tip to study mitosis.	LIFE SKILL EDUCATION
JULY	CH-6 EVOLUTION (HYE)	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.	ENVIRONMENTAL EDUCATION
	CH-7 HUMAN HEALTH AND DISEASES(HYE)	Common disease-causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides or specimens. Comment on symptoms of diseases that they cause.	HEALTH AND WELL BEING

AUGUST	CH-8 MICROBES IN HUMAN WELFARE (HYE)	EXPLORES THE BENEFICIAL ROLES OF MICROORGANISMS IN FOOD PRODUCTION, INDUSTRIAL PROCESSES, SANITATION & HEALTHCARE.	LIFE SKILLS
SEPT - PT1 AND PT 2 SYLLABUS WILL BE INCLUDED IN HALF YEARLY EXAMINATION.			
TERM-2			
OCT	CH-9 BIOTECHNOLOGY PRINCIPLES AND PROCESSES(PT-3)	MAKE A MODEL OF DNA	ART INTEGRATION
	CH-10 BIOTECHNOLOGY AND ITS APPLICATION	Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.	EXPERIMENTAL LEARNING
	CH-11 ORGANISMS AND POPULATIONS	Study the plant population density by quadrat method. Study the plant population density and frequency by quadrat method.	
NOV	CH-12 ECOSYSTEM	CREATE A BOTTLE ECOSYSTEM TO EXPLORING LOCAL HABITAT	ENVIRONMENTAL EDUCATION
	CH-13 BIODIVERSITY AND ITS CONSERVATION	MAKE A POWERPOINT PRESENTATION OF DIFFERENT FLORA AND FAUNA AND ITS CONSERVATION	ICT INTEGRATION
DEC	PREBOARD 1 AND PREBOARD 2	WHOLE SYLLABUS INCLUDING ALL CHAPTERS	

ENGLISH CORE (301)
 CLASS 12
 PRESCRIBED BOOK; NCERT FLAMINGO & NCERT VISTAS
 PUBLISHER; NCERT

SYLLABUS (2025-26) WITH ACTIVITY

SR NO	MONTH	CHAPTER NAME/TOPIC	ACTIVITIES	PEDAGOGY USED
1	APRIL (PERIODIC TEST I)	MY MOTHER AT 66, THE LAST LESSON, LOST SPRING, THE THIRD LEVEL NOTICE WRITING, LETTER TO EDITOR	ORAL ACTIVITYY – SPEECH ON PATRIOTISM, SOCIAL CURSE, DISCRIMINATION, INJUSTICE INTERVIEW WITH SENIORS – CONDUCT INTERVIEWS WITH SENIORS IN YOUR COMMUNITY, EXPLOING THEIR LIFE EXPERIENCES, CHALLENGES & WISDOM AND WRITE A REPORT ON IT	VALUES & ETHICS EDUCATION
2	MAY (PERIODIC TEST II)	DEEPWATER , RATRAP	RESEARCH & PRESENTATION - PHOBIA & FEARS - FEAR TO COURAGE ILLUSTRATED TIMELINE- CREATE AN ILLUSTRATED TIMELINE OF WILLIAN DOUGLAS' LIFE HIGHLIGHTING KEY EVENTS THAT CONTRIBUTED TO HIS FEAR OF WATER AND EVENTUAL OVERCOMING OF IT	EXPERIENTIAL LEARNING
3	JUNE (PERIODIC TEST II)	KEEPING QUIET, TIGER KING ARTICLE/REPORT WRITING	DISCUSSION OF HISTORICAL & POLITICAL CONTEXT OF THE POEM CONSIDERING THE POETS BACKGROUND & EVENTS THAT MAY HAVE INSPIRED THE POEM ROLE PLAY – THE CLASS WILL BE DIVIDED IN GROUPS AND EACH GROUP WILL ACT SCENE FROM THE POEM , FOCUSING ON DIFFERENT	STEAM EDUCATION

			CHARACTERS & PRESENTED	
4	JULY (TERM 1)	INDIGO	FINAL PROJECT ON GANDHIJIS CHAMPARAN MOVEMENT (CHAMPARAN MOVEMENT IN DETAIL) (COLLAGE MAKING , RESEARCH WORK, FACTS & FIGURES, VISUAL INPUT	ART INTEGRATED
5	AUGUST (TERM 1)	A THING OF BEAUTY	DISCUSSION & ANALYSIS - THEME - EXPLORATION - POETIC DEVICE - IDENTIFICATION - CHARACTER ANALYSIS A THING OF BEAUTY SCAVENGER HUNT	MULTILINGUAL EDUCATION
6	SEPTEMBER (PERIODIC TEST III)	JOURNEY TO THE END OF THE EARTH	ORAL DISCUSSION- INDIVIDUAL ACTIVITY - DEVELOP A LIST OF ECO FRIENDLY PRACTICES THAT INDIVIDUALS CAN ADOPT TO REDUCE THEIR IMPACT ON THE ENVIRONMENT, INSPIRED BY THE ANTARCTIC ENVIRONMENT WRITING ACTIVITY (FAIR COPY)- CREATE A PLAN FOR SUSTAINABLE LIVING , INCORPORATING THE LESSONS LEARNED FROM THE ANTARCTIC ENVIRONMENT SUCH AS REDUCING WASTE, CONSERVING ENERGY AND PROTECTING BIODIVERSITY	ENVIRONMENTAL EDUCATION

*****ALL CHAPTERS OF P.T-1 & P.T-2 INCLUDED IN TERM - 1**

TERM - 2

7	OCTOBER (PERIODIC TEST III)	INTERVIEW, POETS AND PANCAKES	"BEHIND THE SCENES' ROLE PLAY , DISCUSSION ON THEMES, CREATIVE WRITING FOCUSING ON CHARACTER'S PERCEPTION	LIFE SKILL EDUCATION
8	NOVEMBER (PREBOARD I)	ROAD SIDE STAND	GROUP ACTIVITY - CREATE A BUSINESS	VOCATIONAL EDUCATION

			<p>PLAN FOR A ROAD SIDE STAND , INCLUDING MARKET RESEACRCH, FINANCIAL PROJECTIONS & MARKETING STRATEGIES</p> <p>INDIVIDUAL ACTIVITY – PRODUCTY DEVELOPMENT – DEVELOP A PRODUCT OR SERVICE THAT COULD BE SOLD AT A ROADSIDE STAND</p>	
9	DECEMBER	PRE BOARD 1	DOUBT CLEARANCE FOR BOARDS	
10	JANUARY	PRE BOARD 2	DOUBT CLEARANCE FOR BOARDS & FINAL ACTIVE SPEAKING & LISTENING TEST	
11	FEBRUARY	BOARD EXAM	BOARD EXAMS	
12	MARCH	-		

SYLLABUS (2025-26)

CLASS:- XII

SUB:- PHYSICAL EDUCATION (048)

PRESCRIBED BOOK:-HEALTH & PHYSICAL EDUCATION

PUBLISHER:- SARSWATI (DR.V.K.VERMA)

Sl.NO.	MONTH	CH.NO/CH NAME	ACTIVITIES	PEDAGOGY USED
		TERM -1		
		P.T.1		
1	April	1.Management Of Sporting Event 2. Children & Woman in Sports	Activity-Your school is organizing an inter school Volleyball tournament. As a member of announcement, publicity and record committee prepare an attractive poster to invite participants from different school	LIFE SKILLS
2	April, May	P.T.2 3. Yoga as preventive Measures for lifestyle Disease CWSN	Activity - Draw a Picture for yoga postures Lifestyle Disease	Art Integration
		HALF YEARLY EXAM.		
3	MAY	1.Management Of Sporting Event	Activity – Students will be divided in the groups. Each group will be assigned a topic theme related to Nutrition like fat, vitamin, mineral, etc.	Health & Well being
	JUNE	2. Children & Woman in Sports		
	JUNE	3. Yoga as preventive Measures for lifestyle Disease		
	JULY	CWSN	REVISION	
	AUGUST	5.Sports & Nutrition	Viva voce	
		P.T. - 3		
4	SEP.	CH.6.Test Measurement in Sports CH 7. Physiology & injury in Sports	Activity – Draw a picture all motor fitness test items 50mtr speed test, 600mtr run, Sit and reach test flexibility test, abdominal partial curl up, push-ups for boys, modified push-ups for girls	Art Integration
		Annual Examination		
5	OCT.	CH.6Test Measurement in sports	Activity – As per the final Record file	Experiential Learning
	OCT.	CH 7. Physiology & Injury in sports		
	NOV	CH. 8 Biomechanics in Sports		
	DEC.	CH.9 Psychology and Sports		
		CH.10 Training in Sports		
	JANUARY	REVISION		
		Pre Board 1 & 2	Project work & Viva - voce	
		1.Management Of Sporting Event 2. Children & Woman in Sports		
		3. Yoga as preventive Measures for lifestyle Disease CWSN		
		5.Sports & Nutrition		
		CH.6.Test Measurement in Sports CH 7. Physiology & injury in Sports		
		CH. 8 Biomechanics in Sports		
		CH.9 Psychology and Sports		
		CH.10 Training in Sports		