SYLLABUS (2025-26)

Class -11
Subject – Physics
Name of the book – Text book of Physics
Publisher -NCERT

MONTH	TOPICS COVERED	ACTIVITY/PRACTICAL	PEDAGOGY USED
		TERM 1	
June	Ch-2:Unit and measurements **(PT-1)** Ch-3 Motion in Straight line **(PT-1)**	1.To measure the To measure diameter of a given wire and thickness of a given sheet using screw Gauge .	EXPERIENTIAL LEARNING
July	Ch- 4:Motion in plane **(PT- 2)** Ch-5:laws of motion **(PT- 2)** Ch-6 :Work Energy and power**(H.Y.E)**	1. To determine volume of an irregular lamina using screw gauge. 2.To find the weight of a given body using parallelogram law of vectors 3.To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal Plane. 4. To study the conservation of energy of a ball rolling down on an inclined plane(using a double inclined plane).	HANDS ON LEARNING
AUGUST	Ch–7: System of Particles and Rotational Motion**(H.Y.E)** Ch–8: Gravitation **(H.Y.E)**	1.To determine mass of a given body using a metre scale by principle of moments. 2. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and Sin θ.	STEAM EDUCATION
		P.T 1 AND P.T 2 SYLLABUS WILL ALSO BE INCLUDED.	
		TERM 2	
September	Ch-9 Mechanical Properties of solid**(PT-3)** Ch-10: Mechanical Properties of Fluids	1) To determine Young's modulus of elasticity of the material of a given wire. 2)To determine the surface tension of water by capillary rise method.	LIFE SKILL EDUCATION
October	Ch-11: Thermal Properties of matter **(A.E.)**	To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.	ENQUIRY BASED LEARNING

Month	Chapter	Activity/Experiment	Learning Method
November	Ch 12 :Thermodynamics (A.E.)	To study the relationship between the temperature of a hot body and time by plotting a cooling curve	COLLABORATIVE LEARNING
December	Ch-13 :Kinetic Theory of gasses (A.E.) Ch-14: Oscillations (A.E.)	1. To determine specific heat capacity of a given solid by method of mixtures. 2. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result	EXPERIENTIAL LEARNING
January	Ch- 15 :Waves(A.E.)	To study the relation between frequency and length of a given wire under constant tension using sonometer.	ICT LEARNING
February	COMPLETE SYLLABUS WILL BE INCLUDED IN ANNUAL EXAM.		
March	Final Exam		

SYLLABUS (2025-26)

SUBJECT- CHEMISTRY

CLASS-XI

PRESCRIBED BOOK:- CHEMISTRY XI N.C.E.R.T

Month	Ch. No/ Ch. Name	Activities/ Practical	Pedagogy used
TERM-I			
June & July	1. Some basic concept of chemistry**(P.T.1)** 2. Structure of atom**(P.T.1)**	I. Preparation of standard solution of oxalic acid, sodium carbonates etc)	Experiential learning
August	3. Classification of an elements and periodicity**(P.T.2)** 4. Chemical bonding and molecular structure**(P.T.2)**	II. Qualitative analysis: Identify of one anion and one cation in a given inorganic salt sample	Experiential learning
September	5. Thermodynamics **(H.Y.E)**	III. Experiments based on pH (solutions obtained from fruit juices, known solution by using Ph paper or universal indicator)	Steam education and experiential learning
P.T. 1 AND P.T 2 SYLLABUS WILL BE INCLUDED IN HALF YEARLY EXAM.			
TERM-II			
October	6.Chemical Equilibium **(P.T.3)** 7.Redox reaction**(P.T.3)**	Experiments based on pH (solutions obtained from fruit juices, known solution by using Ph paper or universal indicator)	Steam education and experiential learning
November	8. Organic chemistry: some basic principles and techniques	IV. Detection of nitrogen, sulphur, chlorine in given organic compounds V. Detection of elements from given unknown organic compounds.	Experiential learning
December	9. Hydrocarbons **(A.E)**	VI. Detection of elements from given unknown organic compounds.	Experiential learning
January	9. Project work+ Revision		Steam education
January	Revision		
February	Annual Exam (All chapters)		

SESSION (2025-26)

CLASS:- 11

SUB:- MATHEMATICS

PRESCRIBED BOOK:-MATHEMATICS TEXTBOOK FOR CLASS 11.

PUBLISHER:-NCERT

MONTH	CH.NO/CH NAME	ACTIVITIES	PEDAGOGY USED
		TERM-1	
JUNE	1. SETS(P.T-1)	To represent the set theoretic operations using venn diagram.	STEM education.
JULY	2. RELATION AND FUNCTION. (P.T-1)	To obtain domain and range of trigonometric function graphically.	STEM education.
	5. LINEAR INEQUALITIES. (P.T-1)	To verify that the graph of the given inequality ax+by+c<0, represent only one of the two half plane.	Experential learning.
AUGUST	3. TRIGONOMETRIC FUNCTION. (P.T-2)	To verify the relation between the degree measure and radian measure of angles.	STEM education.
	4. COMPLEX NUMBER AND QUADRATIC EQUATION. (P.T-2)	To interpret geometrically the meaning is i(iota) and its integral power.	STEM education.
SEPTEMBER	7. BINOMIAL THEOREM.(H.Y.E)	To construct the pascal's triangle and to write binomial expansion for a given positive integral exponent.	LIFE skills education.
*** IN TERM -1 EXAM PT-1 AND PT-2 WILL BE INCLUDED.			
OCTOBER	6. PERMUTATION AND COMBINATION. (P.T-3)	To obtain the number of ways in which three cards can be selected from five cards.	LIFE skills education.
	8. SEQUENCE AND SERIES. (P.T-3)	To obtain the identity for the sum of squares of first n-natural numbers.	LIFE skills education.
NOVEMBER	9. STRAIGHT LINE(A.E.)	To obtain the different equations of line geometrically.	Art integration.
	10. CONIC SECTIONS. (A.E.)	To construct the different types of conic sections.	Art integration.
DECEMBER	11. INTRODUCTION TO 3-D GEOMETRY. (A.E.)	To represent the concept of octants by three mutually perpendicular axes.	LIFE skills education.
	12. LIMITS AND DERIVATIVES. (A.E.)	Verification of geometrical significance of derivatives.	Experiential learning.
JANUARY	13. STATISTICS AND PROBABILITY. (A.E.)	To write the sample space when a dice is rolled once, twice, thrice.	Sports integration.
*** IN ANNUAL EXAM WHOLE SYLLABUS WILL BE INCLUDED.			

CLASS -11

SUBJECT-BIOLOGY(044)

PRESCRIBED BOOK: - 1. BIOLOGY TEXTBOOK FOR CLASS 11

PUBLISHER- NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

MONTH	CH NO./CHAPTERS NAME	ACTIVITIES	PEDAGOGY
TERM-1			
PT-1			
JUNE	CH-1 THE LIVING WORLD CH-2 BIOLOGICAL CLASSIFICATION	1)HERBARIUM 2)PARTS OF COMPOUND MICROSCOPE(LAB)	ART INTEGRATED
PT-2			
JULY	CH-5 MORPHOLOGY OF FLOWERING PLANT	3)STUDY AND DESCRIBE LOCALLY AVAILABLE FLOWERS, DIFFERENT INFLORESCENCE -RACEMOSE AND CYMOSE	ENVIRONMENTAL STUDIES
	CH-6 ANATOMY OF FLOWERING PLANT	4)PREPARATION AND STUDY MONOCOT AND DICOTS STEM AND ROOT. (LAB WORK)	EXPERIMENTAL LEARNING
HALF YEARLY EXAMINATION			
AUGUST	CH-3PLANT KINGDOM	5)STUDY OF DISTRIBUTION OF STOMATA ON THE UPPER AND LOWER SURFACE OF LEAVES. (LAB)	EXPERIMENTAL LEARNING
	CH-4 ANIMAL KINGDOM	6)VISIT A ZOO AND STUDY THE BODY DESIGN OF DIFFERENT ANIMALS	ENVIRONMENTAL LEARNING
	CH-7 STRUCTURAL ORGANISATION IN ANIMALS	7)STUDY THE SPECIMEN OF ANIMALS (LAB WORK)	EXPERIMENTAL LEARNING
SEPT	CH-8 CELL - BASIC UNIT OF LIFE	8)MITOSIS IN ONION(LAB)	EXPERIENTIAL LEARNING
	CH-9 BIOMOLECULES	9)PREPARE A MODEL OF DNA BY USING ICECREAM STICKS, BALLS OR CANDY	ART INTEGRATION
	CH-10 CELL CYCLE AND CELL DIVISION	10)MAKE A MODEL TO SHOW DIFFERENT STAGES OF CELL DIVISION	ART INTEGRATION
PT 1 AND PT 2 SYLLABUS WILL ALSO BE INCLUDED IN HALF YEARLY EXAMINATION.			

	TERM-2		
	PT-3		
OCT	CH-11 PHOTOSYNTHESIS IN PLANTS	11)SEPARATION OF PLANT PIGMENTS BY CHROMATOGRAPHY(LAB)	EXPERIENTIAL LEARNING
	CH-12 RESPIRATION IN PLANTS	12)SEED GERMINATION TO SHOW GROWTH OF PLANTS	LIFE SKILL
	ANNUAL EXAMINATION		
NOV	CH-13 PLANT GROWTH AND DEVELOPMENT		
	CH-14 BREATHING AND EXCHANGE OF GASES	13)STUDY THE RATE OF RESPIRATION IN GERMINATING SEEDS	EXPERIENTIAL LEARNING
	CH-15 BODY FLUIDS AND CIRCULATION	14)MAKE A POWER POINT PRESENTATION TO SHOW BODY FLUIDS, CIRCULATION AND EXCRETION	ICT INTEGRATION
	CH-16 EXCRETORY PRODUCTS AND THEIR ELIMINATION		
DEC	CH-17 LOCOMOTION AND MOVEMENT	15)HUMAN SKELETON AND DIFFERENT TYPE OF JOINTS. DO SOME YOGA WHICH IS RELATED TO MOVEMENT OF JOINTS	HEALTH AND WELL BEING
	CH-18 NEURAL CONTROL AND COORDINATION	16)MAKE AN INVESTIGATORY PROJECT ON NEURAL COORDINATION AND CHEMICAL COORDINATION	ART INTEGRATION
	CH-19 CHEMICAL COORDINATIONAND INTEGRATION		
	JAN REVISION OF ALL CHAPTERS FOR ANNUAL EXAMINATION (CHAPTERS -13,14,15,16,17,18,19 & P.T-3 will be included for Annual Exam)		

Session 2025 – 2026
Syllabus class XI

Subject : English

Prescribed Book: Hornbill

Snapshot

Publiser : NCERT

Sl.No.	MONTH	TOPICS COVERED	ACTIVITY	PEDAGOGY USED
		Periodic Test 1		
1	June-July	**Literature** **Prose(Hornbill)** Ch-1 The Portrait of a lady	Activity : Students discussion on specific phases of life (childhood , village life , city life)	Life skills
		Prose(Snapshot) Ch-1 The summer of the beautiful white horse	Activity: Prepare a cultural values chart showing culture of a perticular tribe.	Art integrated
		Poem(Hornbill) Ch-1 The Photograph	Activity : family tree showing generations of your family	Art Integration
		Grammar Gap filling **Writing** Note- making Drafting Poster	. Activity : Prepare a poster on the topic given by the teacher	Art integrated
		Periodic Test 2		
2.	July-August	**Literature:** **Prose(Hornbill)** We are not afraid to die...If we are together Prose (Snapshot) The Address **Poem (Hornbill)** The Laburnum Top The voice of the Rain Grammar: **Gap filling ,** Reordering of sentences **Writing**	Activity : prepare a chart explaining image,literal and symbolic meaning class work activity ex.(Goldfinch)4. Activity :Creating awareness campaigns for water conservation,(poster)or Prepare rain cycle	Environment tal Education Art integrated with enviornmental edu.

		Drafting poster, Letter to Editor, Note making		
		Half-Yearly examination		
3.	Till mid Septembe r	**Literature:** **Prose(Hornbill)** Discovering Tut..The saga continues **Poems (Hornbill)** **A PHOTOGRAPH** The Laburnum Top The Voice of the Rain **Prose(snapshot)** The Summer of the Beautiful White Horse The Address **Grammar** Determiners,Tenses,Modals **Writing** Poster,note-making,letter to editor, speech	Activity :Prepare a timeline of king tut's life	art integrated with steam edu.
			Why ethics are important in life write a speech on the given topic relating to the chapter the summer of the beautiful white horse	value and ethics education
		PERIODIC TEST 3		
4.	Septembe r - November	Literature **Poem (hornbill)** Childhood **Prose (snapshot)** Mothers day **Grammar** Active and passive voice **Writing** Classified advertisement	Activity Prepare book marks for code of ethics Activity :Prepare a mother's Day card and curve your emotions for your mother Activity : prepare a booklet of different types of advertisement mentioning it's	value and ethics education Art integrated along with ethical education Art integration alongwith life skill

			variety like matrimonial lost and found rent etc	education

5.	November -January	**Literature** **prose(hornbill)** The Portrait of a Lady We are not afraid to die...The Saga Con- Discovering Tut..The saga continued The Adventure The Silk Road		
			Activity : Organise a debate on the topic "Are parallel universe a scientific possibility or merely science fiction	Steam edu.
			Mark the silk road along with the trades on the world map	Art integrated
		Poem (Hornbill) A PHOTOGRAPH The Laburnam Top The Voice of Rain Childhood Father to son	Activity : emotional mapping(creating the best father-son memories like travelling together , playing a song for your father etc)	Multilingual edu.
		Prose(snapshot) The Summer of the Beautiful White The Address Mothers day The Tale of Melon city Silk Road	Activity:students will create a newspaper for Melon city with articles,editorials and advertisements related to the events in the story	
		Grammar Determiners,tense,modals,active and passive voice **Writing** Drafting Poster,letter to editor,Debate,classified advertisement		Citizenship and constitutional values

Sl.NO.	MONTH	CH.NO/CH NAME	ACTIVITIES	PEDAGOGY USED
		TERM -1		
		P.T.1		
1	April	Ch.1 Changing Trends and career in physical education	Activity -Draw or collect picture related to various sports career and further each group will explain in detail about one career .	Art Integration
		Ch-2 Olympism		
2	April, May	P.T.2		
		3.Meaning & Importance of yoga	Activity- Draw the picture of various yoga Asanas and Yogic kriyas using pencil /Colour.	Art Integration
		4.Physical Education and sports for (Children with Special Needs – Divyang)		
		HALF YEARLY EXAM.		
3	MAY	Ch.1 Changing Trends and career in physical education	Activity – Draw a picture related to various disabilities from old magazines, newspaper etc. students will work in.	Art Integration
	JUNE	Ch-2 Olympism	Each group will be creating a collage related to a disability and will explain about it	
	JUNE	Ch.3 Meaning & Importance of yoga		
	JULY	Ch.4.Physical Education and sports for	REVISION	
	AUGUST	Ch.5Physical Fitness, Health and	Viva voce	
		Term -2		
		P.T-3		
4	SEP.	CH.6.Test measurement and evaluation	Activity – Draw a picture of various body organs and organ systems	Art Integration
		CH 7. Fundamental of Anatomy, Physiology in Sports		
		Annual Examination		
5	OCT.	CH.8 Fundamentals of Kinesiology and Biomechanics in Sports	Activity – Asked a Perform a mime on the doping and its side effects	Multilingual Education
	NOV	CH.9 Psychology and Sports		
	DEC.	CH.10 Training and Doping in Sports		
	JAN	REVISION		
	FEB	**Annual Examination**	Project Work & Viva - voce	
		Ch.1 Changing Trends and career in physical education		
		Ch-2 Olympism		
		Ch.3 Meaning & Importance of yoga		
		Ch.4.Physical Education and sports for		
		Ch.5Physical Fitness, Health and		
		CH.6.Test measurement and evaluation		
		CH 7. Fundamental of Anatomy, Physiology in Sports		
		CH.8 Fundamentals of Kinesiology and Biomechanics in Sports		
		CH.9 Psychology and Sports		
		CH.10 Training and Doping in Sports		