

Syllabus

2021 - 22

CLASS - XI



DAV PUBLIC SCHOOLS

ODISHA ZONE-II

Managed by : DAV College Managing Committee, New Delhi

FORWARD

A syllabus helps every teacher and student to know clearly the topics to be taught and the concepts to be learnt. And a Split-up of Syllabus helps everyone to plan ahead and to work systematically. This split up of syllabus is presented to all the stakeholders (students, teachers & parents) to help them to accomplish their goals. Each school is at the liberty to bring changes in it according to their requirement sticking to the suggested guidelines.

Hope this will help the teachers in designing and planning lessons for transacting syllabus and assessing students effectively during the current Academic Session.

DAV PUBLIC SCHOOLS, ODISHA, ZONE-II

SPLIT-UP SYLLABUS 2021-22

SUB: English Core (301)

CLASS-XI

BOOKS PRESCRIBED:

1: **Hornbill**: Textbook (NCERT)

2: **Snapshots**: Supplementary Reader (NCERT)

MONTH	CHAPTERS/TOPIC TO BE TAUGHT	MARK DIST. FOR HALF YEARLY & ANNUAL EXAMINATIONS
JUNE	Writing Notice Grammar Tenses Literature Hornbill The Portrait of a Lady A Photograph (Poetry)	PART A - 40 MARKS Reading 18 Marks The combined word limit for both the passages will be 600-750 words Q1 Multiple Choice questions (Ten out of Eleven questions to be done): 1x10=10 Q2 Multiple Choice questions (Eight out of Nine questions to be done): 1x8=8
	Reading Note making & Summarizing Writing Advertisement, Article writing, Poster Grammar Determiners, Modals Literature Hornbill We're Not Afraid to Die..... The Laburnum Top (Poetry) Snapshots The Summer of the Beautiful White Horse The Address	Grammar 8 Marks Q3 Multiple Choice Questions on Gap filling 1X4=4 Q4 Multiple Choice Questions on re-ordering/transformation of sentences (Total eight questions to be done out of the ten given) 1X4=4 Literature Section 14 Marks Q5 Multiple Choice Questions from an extract from Poetry (Any 1 out of 2 extracts): 1x3=3 Q6. Multiple Choice Questions based prose extracts (Any 2 out of the 3 extracts): 1x6=6 Q7 Text based Multiple Choice Questions from Prose and Poetry (Five questions out of six to be done): 1X5=5
AUGUST UNIT TEST-1	Writing Business/ Official Letters Letters to the Editor Grammar Error Correction, Editing Task, Re-ordering of Sentences Literature Hornbill Discovering Tut: The Saga Continues The Voice of the Rain (Poetry) Snapshots Ranga's Marriage Albert Einstein at School	PART B - 40 MARKS Reading Section: 8 Marks based on a passage of approximately 200-250 words Q1. Note Making: 05 Summarization: 03 Writing Section: 16 Marks Q2. Short writing task - Notice Writing (One out of the two): 3 Marks Q3. Short writing task - Poster Designing (One out of the two) : 3 Marks Q4. Letters Writing – Business/Official letters (One out of the two): 5 Marks Q5. Writing composition - Speech/Debate (One out of the two) : 5 Marks Literature Section: 16 Marks Q6. Two Short answer type questions (one from Prose and one from Poetry from the book Hornbill) out of four , to be answered in 30-40 words: 2x2=4 Q7. One Short answer type question , (from Prose Snapshots) out of two to be answered in 40- 50 words : 2x1=2 Q 8. One Long answer type question , (from prose/poetry Hornbill) out of two to be answered in 120-150 words 5x1=5 Q.9 One Long answer type question (from the book Snapshots) out of two to be answered in 120-150 words : 5x1=5
SEPTEMBER	Writing Report Writing Literature Hornbill Landscape of the Soul Listening Skill Speaking Skill REVISION HALF YEARLY EXAMINATION	
OCTOBER	Literature Hornbill The Ailing Planet..... The Browning Version	
NOVEMBER	Note making & Summarizing Writing Job Application Speech Grammar Change of Voice Clauses	ASSESSMENT OF SPEAKING & LISTENING SKILLS 20 MARKS 1. SPEAKING SKILL-10MARKS 2. LISTENING SKILL-10MARKS

	Literature Hornbill The Adventure Childhood (Poetry) Snapshots Mother's Day The Ghat of the Only World	
DECEMBER UNIT TEST-II	Note making & Summarizing Writing Letter to the School and College authorities Grammar Transformation of Sentences Literature Hornbill Silk Road Father to Son (Poetry) Snapshots Birth The Tale of the Melon City	
JANUARY PRE-ANNUAL	Listening Skill Speaking Skill	
FEBRUARY	REVISION and ANNUAL EXAM	

NB: Reading comprehension practice will be done every month.

Blue Print: 2021-22
Marks-80+20=100

Section	Competencies	Total Marks	% Weightage
Reading Comprehension	Comprehension, conceptual understanding, decoding, analysing, inferring, interpreting, appreciating, literary conventions and vocabulary, summarizing and using appropriate format/s.	26	32.5%
Writing Skill and Grammar	Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.	24	30%
Literature Textbook and Supplementary Reading Text	Recalling, reasoning, appreciating literary convention, inference, analysis, creativity with fluency.	30	37.50%
	TOTAL	80	100%
Assessment of Speaking and Listening Skills		20	
	Grand Total	100	

DAV PUBLIC SCHOOLS, ODISHA ZONE II

SPLIT-UP SYLLABUS 2021-22

CLASS: XI

SUB: Mathematics (041)

BOOKS PRESCRIBED: 1. MATHEMATICS: A TEXT BOOK FOR CLASS – XI (NCERT)

2. MATHEMATICS (EXEMPLAR PROBLEMS) (NCERT)

3. MATHS LAB MANUAL (NCERT)

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
	JULY	Ch – 1 : Sets	09	23
		Ch – 2 : Relations & Functions	11	
		Ch – 3 : Trigonometric Functions	15	
		Ch – 4: Principle of Mathematical induction	05	
U.T – I	AUGUST	Ch – 5 : Complex Number and Quadratic Polynomials	08	30
		Ch – 7: Permutation and Combination	10	
		Ch – 8 : Binomial Theorem	13	
		Ch – 6 : Linear Inequalities	09	
	SEPTEMBER	REVISION AND HALF YEARLY EXAMINATION	TOTAL: 80	
UT – II	OCTOBER	Ch – 9 :Sequence and Series		10
		Ch – 10 : Straight lines		
	NOVEMBER	Ch – 10 : Straight lines		
		Ch – 11 : Conic sections		
	DECEMBER	Ch – 13 : Limits and Derivatives		05
		Ch – 14 :Mathematical Reasoning		02
	JANUARY	Ch – 15 :Statistics		10
		Ch – 16 : Probability		
	PRE ANNUAL	REVISION FOR PRE ANNUAL EXAMINATION		
	FEBRUARY	REVISION AND ANNUAL EXAMINATION		
Total:				80

QUESTION PATTERN

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
PART-A			
SEC-I VSA	1	16	16
SEC-II CBS	4 (1X4=4)	2	08
PART-B			
SEC-III SA	2	10	20
SEC-IV LA-I	3	7	21
SEC-V LA-II	5	3	15
Total:		38	80

BLUE PRINT OF QUESTION PAPER

HALF-YEARLY EXAMINATION(2021-22) SUB: MATHEMATICS

CLASS-XI

M.M-80

SL.NO	NAME OF THE TOPIC	1Mark	2Marks	3Marks	5Marks	TOTAL
1	Ch – 1 : Sets	CBQ (1X4)	-	-	1	09
2	Ch – 2 : Relations & Functions	4	2	1		11
3	Ch – 3 : Trigonometric Functions	3	3	2	-	15
4	Ch – 4: Principle of Mathematical Induction	-	-	-	1	05
5	Ch – 5 : Complex numbers and Quadratic polynomials	3	1	1		08
6	Ch – 7: Permutation and Combination	2 CBQ (1X4)	2	-	-	10
7	Ch – 8 : Binomial Theorem	3	2	2		13
8	Ch – 6 : Linear Inequalities	1	-	1	1	09
	TOTAL	24X1=24	10X2=20	7X3=21	3X5=15	80

- There will be no overall choice in the question paper .However, 33% internal choice will be given in all the sections.
- Blue Print of Question Papers for PRE-ANNUAL/ Annual Examination will be as per DAVCAE guidelines.

WEIGHTAGE TO LEARNING OBJECTIVES

S.NO	TYPOLOGY OF QUESTION	MARKS	WEIGHTAGE
1.	Remembering and Understanding	44	55%
2	Application	20	25%
3	Analysing, creating and evaluating	15	20%
	Total :	80	100%

For Internal Assessment: 20 Marks

Throughout the year any ten activities shall be performed by the students from the activities given in the NCERT Laboratories Manual (XII)

Weightage :

1. Activities Performed by the student throughout the year and record keeping – 5 marks
2. Assessment of the activities performed during year end test – 3 marks
3. Vivavoce – 2 marks
4. Pen Paper test – 10 marks (Average of best two out of three)

LEARNING OUTCOMES
SUBJECT: MATHEMATICS(XI)

SL.NO	CLAS S	NAME OF THE TEXT BOOK	CHAPTER/ LESSON	LEARNING OUTCOMES
1	XI	MATHEMATI C S TEXTBO OK FOR CLASS-XI	CH-1 – SETS	<p>The learners</p> <ul style="list-style-type: none"> *Identify/ Classify different types of sets. *Analyse the conditions involve finding composite functions and inverse of a function. *Apply the strategies required to check equivalence relation and to find the composition of two functions and inverse of a function.
2	XI	MATHEMATI C S TEXTBO OK FOR CLASS-XI	CH-2 – RELATIONS AND FUNCTIONS	<p>The learners</p> <ul style="list-style-type: none"> *Demonstrate the meaning and properties ordered pair and Cartesian product of sets, basic concepts of relations and functions *Find the domain co-domain and range of a relation and a function. *Identify different types of real functions. *Draw the graph of a real function and study the properties of different real functions. *Make a project on graphs of functions using Geogebra.
3	XI	MATHEMATI C S TEXTBO OK FOR CLASS-XI	CH-3 – TRIGONOME TRIC FUNCTIONS	<p>The learners</p> <ul style="list-style-type: none"> *Convert the measure of an angle to different units *Demonstrate the domain and range of different trigonometric functions. *Draw the graph of different trigonometric functions. *Establish the formulae related to trigonometric functions of the sum, difference, multiple and submultiple angles and also sine and cosine formulae. *Solve trigonometric equations. *Apply the established formulae to solve problems on trigonometry and real-life problems.
4	XI	MATHEMATI C S TEXTBO OK FOR CLASS-XI	CH-4 – PRINCIPLE OF MATHEMATICA L INDUCTION	<p>The learners</p> <ul style="list-style-type: none"> *Apply principles of mathematical induction to solve related problems.

5	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-5 – COMPLEX NUMBER	<p>The learners</p> <ul style="list-style-type: none"> *Demonstrate the properties of i. *Write a complex number in the standard form. *Compute addition, subtraction and multiplication of complex numbers. *Demonstrate properties of complex algebra. *Draw argand diagrams. *Represent a complex number in polar form. *Find the square root of a complex number. *Solve quadratic equations with complex roots.
6	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-6 – LINEAR INEQUALITY	<p>The learners</p> <ul style="list-style-type: none"> * Solve linear inequalities of one variable and interpret the solution graphically. *Solve linear inequalities of two variables graphically *Apply the methods of solution of linear inequalities to solve real life problems.
7	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-7 – PERMUTATIONS AND COMBINATION	<p>The learners</p> <ul style="list-style-type: none"> *Demonstrate the basic concepts of factorial notation, fundamental principle of counting, permutations and combinations. *Analyse the problems and identify the techniques to be applied to solve a problem. *Apply the concepts of permutations and combinations to solve real life problems.
8	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-8 – BINOMIAL THEOREM	<p>The learners</p> <ul style="list-style-type: none"> * Find binomial coefficients from pascal's triangle *Apply binomial theorem for expansions. *Find general term and middle terms of a binomial expansion. *Solve problems on binomial theorem
9	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-9 – SEQUENCE AND SERIES	<p>The learners</p> <ul style="list-style-type: none"> *Demonstrate the concepts of A.P and G.P and their properties. *Solve different questions based on A.P and G.P and special sequences. *Apply concepts of A.P and G.P to solve real life problems.
10	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-10 – STRAIGHT LINES	<p>The learners</p> <ul style="list-style-type: none"> *Find slope of a line, equation of a line in different forms, distance between two lines *Apply the concept of slope to find angle between two lines and check whether two lines are parallel or perpendicular. *Solve different questions based on the concept of family of lines. *Visualise the position of a line in geogebra for different values of a, b and c

11	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-11 – CONIC SECTIONS	<p>The learners</p> <ul style="list-style-type: none"> *Demonstrate the design of conic sections and their properties. *Derive equation of conic sections in different conditions. *Apply the concept of conic sections in solving real life situations
12	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-12 – INTRODUCTION TO 3D GEOMETRY	<p>The learners</p> <ul style="list-style-type: none"> * Demonstrate three-dimensional coordinate system. *Derive distance and division formula in 3D. *Apply the formulae to solve problems.
13	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-13 – LIMITS AND DERIVATIVES	<p>The learners</p> <ul style="list-style-type: none"> * Find limits of a function. *Demonstrate differentiation from first principle and geometrical meaning of differentiation *Solve problems on limits and derivatives
14	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-14 – MATHEMATICAL REASONING	<p>The learners</p> <ul style="list-style-type: none"> *Analyse logically the mathematical problems. *Interpret logical statements. *Apply concepts of logic in checking validity of a statement and to decide methods to be applied to solve a problem.
15	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-15 – STATISTICS	<p>The learners</p> <ul style="list-style-type: none"> *Calculate mean deviations, variance and standard deviation of data.
15	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-15 – STATISTICS	<p>The learners</p> <ul style="list-style-type: none"> *Calculate mean deviations, variance and standard deviation of data. *Analyse frequency distributions by using coefficient of variation.
16	XI	MATHEMATICS TEXT BOOK FOR CLASS- XI	CH-16 – PROBABILITY	<p>The learners</p> <ul style="list-style-type: none"> *Describe sample space of an experiment, and different types of events. *Determine probability of an event. *Apply the idea of permutations and combinations in probability.

DAV PUBLIC SCHOOLS, ODISHA, ZONE-II

SPLIT-UP SYLLABUS 2021-22

CLASS: XI

SUB: Physics (042)

TEXT BOOK PRESCRIBED: Text book for class XI, PHY (Part I & II), NCERT

TEST/EXAM	MONTH	CHAPTERS TO BE TAUGHT	H.Y WEIGHTAGE	PRE ANNUAL/ ANNUAL WEIGHTAGE	
UT-1	JUNE	1: Physical World	5	23	
		2: Units and Measurements			
		3: Motion in a Straight Line			
	JULY	3: Motion in a Straight Line	17		
		4: Motion in a Plane			
5: Laws of Motion	17				
H.Y	AUGUST	6: Work, Energy and Power	12	37	
		7: System of Particles and Rotational Motion	13		
	SEPTEMBER	8: Gravitation	6		
		REVISION FOR HALF YEARLY EXAMINATION.			
U.T-II	OCTOBER	9: Mechanical Properties of Solids	70		
		10: Mechanical Properties of Fluids			
NOVEMBER	11: Thermal Properties of Matter				
	12: Thermodynamics				
PRE ANNUAL/ANNUAL	NOVEMBER	13: Kinetic Theory			10
	DECEMBER	14: Oscillations			
		15: Waves			
		REVISION FOR PRE ANNUAL EXAMINATION.			
	JAN/FEB	REVISION FOR ANNUAL EXAMINATION.			
TOTAL				70	70

QUESTION PATTERN

TYPE OF QUESTIONS	MARK(S) PER QUESTION	TOTAL NO OF QUESTIONS	TOTAL MARKS
VSA I	01	10	10
VSA II (AR)	01	04	04
VSA III (Case study)	04	02	08
SA-I	02	09	18
SA -II	03	05	15
LA	05	03	15
TOTAL	-----	33	70

Note: There is no overall choice in the paper. However, there will be internal choice for different sections, i.e. there is an internal choice in four questions of 1mark weightage, three questions of 2 marks weightage, two question of 3 marks weightage and all the three questions of 5 marks weightage.

PRACTICALS

Time Allowed: Three hours

Max. Marks: 30

Two experiments one from each section	7+7 Marks
Practical record (experiment and activities)	5 Marks
One activity from any section	3 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks

SECTION – A

(6 Experiments to be performed)

Sl.No	Expt.No	Month	Details of the experiments to performed
1	1	June	To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
2	2	July	To measure diameter of a given wire and thickness of a given sheet using screw gauge
3	3	July	To determine volume of an irregular lamina using screw gauge.
4	4	Aug	To determine radius of curvature of a given spherical surface by a spherometer.
5	5	Aug	To determine the mass of two different objects using a beam balance
6	6	Sep	To find the weight of a given body using parallelogram law of vectors
7	7	Sep	Using a simple pendulum, plot its L-T ² graph and use it to find the effective length of second's pendulum.
8	8	Sep	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.
9	9		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 surface.
10	10		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 $\sin\theta$.

Activities

(for the purpose of demonstration only)

(3 Activities to be performed)

1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a projectile with angle of projection.
6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

SECTION – B
(6 Experiments to be performed)

Sl.No.	Expt No.	Month	Details of the experiments to be performed
1	1	Oct	To determine Young's modulus of elasticity of the material of a given wire.
2	2	Oct	To find the force constant of a helical spring by plotting a graph between load and extension.
3	3	Nov	To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.
4	4	Nov	To determine the surface tension of water by capillary rise method.
5	5	Nov	To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
6	6	Dec	To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
7	7 8	Dec	To determine specific heat capacity of a given solid by method of mixtures. To study the relation between frequency and length of a given wire under constant tension using sonometer.
8	9		To study the relation between the length of a given wire and tension for constant frequency using sonometer.
9	10		To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.

Activities (for the purpose of demonstration only)
(3 Activities to be performed)

1. To observe change of state and plot a cooling curve for molten wax.
2. To observe and explain the effect of heating on a bi-metallic strip.
3. To note the change in level of liquid in a container on heating and interpret the observations.
4. To study the effect of detergent on surface tension of water by observing capillary rise.
5. To study the factors affecting the rate of loss of heat of a liquid.
6. To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
7. To observe the decrease in pressure with increase in velocity of a fluid.

LEARNING OUTCOMES

SUBJECT: PHYSICS

SI.No	Class	Name of the Text Book	Chapter/ Lesson	Learning Outcomes
1	XI	NCERT	Ch 1 : Physical World	The learner 1. Explain the fact that theory and experiment can go hand in hand in physics. 2.Explains domain interested in physics and physical world. 3.Explains the scientific methods for developing the hypothesis, axioms, models and laws."
2			Ch2 :Units and Measurements	1.Derives methods of measurement of lengths – large as well as small; measurement of mass; and measurement of time. 2.Explains the need of accuracy, precision, errors and uncertainties in measurement; and classify errors 3.Applies understanding of dimensional analysis in checking the dimensional consistency of relations .
3			Chapter–3: Motion in a Straight Line	1.Analyses and interprets data, graphs, and figures, and draws conclusion about the state of motion, speed . 2.Derives (graphically) kinematic equations for uniformly accelerated motion 3.Explains elementary calculus (both differential and integral) that is required to describe motion..
4			Chapter–4: Motion in a Plane	1.Apply the concept of vector in solving activities like relative velocities between two bodies ,effective force etc. 2.Explain the motion of body in two and three dimensional motion like projectile, circular . 3.Derive and find the equation of motion of projectile and circular motion. 4.Interpre equation of projectile and apply for sports of throwing event.
5			Chapter–5: Laws of Motion	1.Interpret,analyse and define the force and its effects. 2 Explain cause ,necessity of friction and its importance in day today life also develop the method to reduce friction . 3.Analyse the mechanical problems in day today life and simplify it for better use. 4 .Explain inertia and can analyse how we overcome it by applying force
6			Chapter–6: Work, Energy and Power	1.Define work and can derive relation between work and energy. 2.Find the power required for any mechanical work and able calculate (roughly)the power generation of windmill or hydropower station. 3. Derive the after velocity of two bodies in collision both elastic and inelastic. 4. Find the efficiency of a machine from the data of energy supplied and useful work done

7			Chapter-7: System of Particles And Rotational Motion	<ol style="list-style-type: none"> 1 Locate the centre of mass of different bodies and can find its position. 2 .Explain the concept of rotational motion and find torque and angular momentum. 3.Analyse and interpret the moment of inertia of different bodies about different axis . 4. Explain that how rolling motion is combination of translator and rotational motion.
8			Chapter-8: Gravitation	<ol style="list-style-type: none"> 1 Derive the Newton's law of gravitation. 2 Determine the acceleration due to gravity at different location of earth and other heavenly bodies. 3 .Mathematically can show why Earth has atmosphere abut moon does not. 4 . Find the range of velocity for bodies to revolve around a planet and minimum velocity required to escape from it. 5 Derive the height required for Geostationary satellite and time period of other satellite.
9			Chapter-9: Mechanical Properties of Solids	<ol style="list-style-type: none"> 1 Distinguish of material on the basis of rigidness and explain why steel is used widely in Crains . 2.Find the diameter of steel wire required for Crains of specific capacity or bridge . 3. Determine the maximum possible height of mountain on earth. 4 Explain why pillars are I in shape.
10			Chapter-10: Mechanical Properties of Fluids	<ol style="list-style-type: none"> 1. Determine the pressure of fluid at different depth and minimum force required to lift a heavier object by using Hydraulic lift. 2 Explain the fluid friction and why the shape of bullet train and fish is stream lined. 3. Find the area of wing a aeroplane required to fly. 4 Explain the swinging of football , cricket ball. Mechanism of spray 5 .Predict the shape of water droplet and its cause.
11			Chapter-11: Thermal Properties of Matter	<ol style="list-style-type: none"> 1 Find the relation between different unit of temperature and define absolute temperature. 2 Explain why long structure like bridge must have gap between two section. 3 .Explain the anomalous behaviour of water . 4. Analysis why people prefer black dress in winter and white dress in summer
12			Chapter-12: Thermodynamics	<ol style="list-style-type: none"> 1. Analyse the process when heat energy can be convert in to work 2.Explain how a heat engine like 4 stroke engine and refrigerator works. 3 Find the condition in which efficiency of an engine can be increased. 4 Derive the work done during adiabatic and isothermal

				process.
13			Chapter-13: Kinetic Theory	<ol style="list-style-type: none"> 1. Find the value of gas constant R and its variation with temperature. 2. Derive the pressure exerted by a gas and kinetic energy of the molecule at particular temperature. 3. Find total kinetic energy of a gas in a container.
14			Chapter-14: Oscillations	<ol style="list-style-type: none"> 1. Analyse whether a body will oscillate or not and its condition of oscillation. 2. Equation of oscillation can apply in different situations to obtain position, velocity and energy of the particle. 3. Differentiate between free and damped oscillation. 4. Explain why some buildings are broken in Earthquake and suggest some measures to prevent it.
15			Chapter-15: Waves	<ol style="list-style-type: none"> 1. Derive the equation for progressive wave and standing wave. 2. Will be able to predict the factors which determine speed of wave in a medium. 3. Explain why musical instruments like guitar have so many strings with different thickness. 4. Explain the principle of Doppler's radar.

DAV PUBLIC SCHOOLS, ODISHA ZONE – II

SPLIT-UP OF SYLLABUS 2021-22

CLASS – XI

SUBJECT: CHEMISTRY (043)

BOOK PRESCRIBED: TEXT BOOK FOR CLASS – XI CHEMISTRY (PART – I&II), NCERT

(Unit No. and Details of syllabus according to CBSE syllabus)

UNIT TEST	MONTH	CHAPTER / TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE		
			HALF YEARLY	ANNUAL	
	JUNE	Unit – I Some basic concepts of chemistry	10	Unit – I	11
	JULY	Unit – II Structure of Atom	12	Unit –II	
		Unit – III classification of elements and periodicity in properties	10	Unit – III	04
UNIT TEST – I	AUGUST	Unit – IV Chemical bonding and Molecular structure	12	Unit – IV Unit – V Unit – VI Unit - VII	21
		Unit – V States of matter	10		
	SEPTEMBER	Unit – VIII Redox reaction	08		
		Unit – XIV Environmental chemistry	08		
		REVISION & HALF YEARLY EXAMINATION	Total: 70		
	OCTOBER	Unit – VI Thermodynamics		Unit – VIII	16
	NOVEMBER	Unit – VII Equilibrium		Unit – IX	
			Unit – IX Hydrogen		Unit – X
		Unit – XII Organic Chemistry: Some Basic principle and techniques		Unit – XI	
UNIT TEST – II	DECEMBER	Unit – XIII Hydrocarbons		Unit – XII Unit – XIII Unit – XIV	18
		Unit – X s-Block elements			
		Unit – XI Some p-Block elements			
	JANUARY	REVISION & PRE-ANNUAL EXAM			
	FEBRUARY	REVISION & ANNUAL EXAMINATION		Total - 70	

QUESTION PATTERN

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
Objective	1	14	14
Case based	4	2	08
SA-I	2	9	18
SA-II	3	5	15
LA	5	3	15
TOTAL		33	70

NB:

1. No chapterwise weightage. Care to be taken to cover all the chapters. There is no overall choice. However 33% internal choices will be given in both the sections separately. Suitable internal variations may be made for generating various templates.

2. Question for Pre-Annual/Annual examination will be as per DAV CAE Guidelines

CHEMISTRY (PRACTICAL)

Max. Marks: - 30

60 Period

Time: 3 hrs.

Sl. No.	MONTH	DETAILS OF EXPERIMENT TO BE PERFORMED
1	June	Basic laboratory techniques
2	July	Characterization and purification of chemical substances
3	Aug	Quantitative Estimation: using chemical balance, preparation of standard solution of oxalic acid and sodium carbonate, Titration (Acid –base)
4	Sept	Qualitative analysis: Determination of one cation and one anion in a given salt
6	Oct	HALF YEARLY EXAMINATION
7	Nov.	Detection of nitrogen, sulphur, chlorine in the organic chemistry
8	Dec	Chemical Equilibrium (any one Experiment) Experiment based on pH (any one Experiment)
9	Jan	PRE-ANNUAL EXAM
10	Feb	ANNUAL EXAM

EVALUATION SCHEME FOR PRACTICAL EXAMINATION

SL. NO.	EVALUATION SCHEME FOR PRACTICAL EXAMINATION	MARKS
1	Volumetric Analysis	08
2	Salt Analysis	08
3	Content based Experiment	06
4	Project work	04
5	Class record and viva voce	04
Total		30

N.B.:

Project (Scientific Investigation involving laboratory testing and collecting information from other sources.) Any investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.

BLUE PRINT FOR HALF YEARLY EXAMINATION QUESTION PAPER

Unit No.	Unit	VSA (1 mark)	SA-I (2 marks)	SA-II (3marks)	LA (5marks)	Total
Unit I	Some basic concepts of Chemistry	3	2	1		10
Unit II	Structure of Atom	4(CBS)		1	1	12
Unit III	Classification of elements and Periodicity in properties	3	2	1		10
Unit IV	Chemical bonding and Molecular structure	4(CBS)+1	1		1	12
Unit V	States of matter	3	1		1	10

Unit VIII	Redox reactions	3	1	1		08
Unit XIV	Environmental chemistry	1	2	1		08
TOTAL		22x1	9x2	5x3	3x5	70(33)

Question paper will be prepared as per the CBSE (Class XII 2021-2022) question pattern.

LEARNING OUTCOMES

SUBJECT: CHEMISTRY (XI)

Sl.No	Class	Name of the Text Book	Chapter/ Lesson	Learning Outcomes
1	XI	NCERT CHEMISTRY PART-I	Ch-1. Some basic concepts of chemistry	<p>The learner will be able to:</p> <ul style="list-style-type: none"> Explain various laws of chemical combination such as conservation of mass, law of definite proportion, law of multiple proportion, Gay Lussac law, Avogadro's law . Take initiative to know about scientific discovery and invention. Know the difference between unified mass and gram. Know the concept of mole and molar mass and apply to solve numericals. Calculate and appreciate significance of atomic mass average atomic mass, empirical formula, stoichiometric calculation. Define limiting reagent and solve problem based on limiting reagent. apply concept of chemistry in day to day life while solving problems
2	XI	NCERT CHEMISTRY PART-I	Ch-2. Structure of atom	<p>The learner will be able to:</p> <ul style="list-style-type: none"> Take initiative to know the discovery of electrons, protons and neutrons. Take initiative to learn about Thomson's, Rutherford and Bohr's atomic model. Understand the properties of electromagnetic radiation and planck's Quantum theory. Explain about photoelectric effect and the features of spectra. Remember values and importance of quantum numbers and Schrödinger wave equation. Define Aufbau principle, Hund's rule, pauli's exclusion principle and application. Take initiative to know and learn about electronic configuration of atoms. Know the stability of half filled and fully filled orbitals and shapes of s, p and d orbitals.

3	XI	NCERT CHEMISTRY PART-I	Ch-3. classification of elements and periodicity in properties.	<p>The learners will be able to :</p> <ul style="list-style-type: none"> • Define modern periodic law. • Classify elements into period, group & block (s,p, d and f- block)on the basis of electronic configuration and describe characteristic properties. • Compare reactivity of elements and their occurrence in nature as a Free State or combined state. • Analysis the variation of ionization enthalpy and electron gain enthalpy, electronegativity, metallic and non metallic character, acids and basic nature and other physical and chemical properties along the periods and groups. • Know the anomalous behaviour of elements of group and their diagonal relationship with elements of neighbouring group.
4	XI	NCERT CHEMISTRY PART-I	Ch-4. chemical bonding and molecular structure	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Identify the Lewis structure and know how to write electron dot structure of elements. • Know octet rule and its drawback. • Describe VSEPR theory and apply it to predict shapes of molecules and ions. • Know the valence bond theory for the formation of covalent bond. • Know $sp, sp^2, sp^3, sp^3d, sp^3d^2$ hybridisation and draw shape of molecules involving orbital overlapping. • Describe molecular orbital theory and its application. • Evaluate bond order, the concept of hydrogen bond and its types.
5	XI	NCERT CHEMISTRY PART-I	Ch-5. States of matter	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Enlist the gaseous laws, derive their formula and apply them in numerical. • Derive ideal gas equation and solve numerical • Apply gas laws in real life situations • Apply gas laws in real life situations • Analyse the critical temperature, pressure, volume, Boyle's temperature • Know the properties of liquids in term of intermolecular attraction such as vapour pressure, viscosity, surface tension, density and boiling point

6	XI	NCERT CHEMISTRY PART-I	Ch-6. Thermodynamic	<p>The learner will be able to:</p> <ul style="list-style-type: none"> Define the first law of thermodynamics, internal energy, enthalpy and enthalpy change. Compare the relationship between enthalpy of reaction and enthalpy of formation of reactants and products. Apply enthalpy of reaction using Hess's law. Define bond enthalpy, bond dissociation, and dissociation enthalpy and entropy. Know the relationship between G, H and S, remember the standard Gibbs energy of formation of a substance. Relate the standard Gibbs energy change with the equilibrium constant and solve numerical.
7	XI	NCERT CHEMISTRY PART-I	Ch-7. Equilibrium	<p>The learner will be able to:</p> <ul style="list-style-type: none"> Compare between reversible and irreversible reaction Define the law of mass action and derive the relation between K_c and K_p Enlist the factors which affect the state of equilibrium and apply Le-chatelier's principle. Compare between strong and weak electrolytes and correlate the degree of dissociation and dissociation constant of a weak electrolyte. Define pH, buffer solution and common ion effect in ionisation of weak acids and bases. identify the common ion effect on solubility equilibrium and the application of common ion effect
8	XI	NCERT CHEMISTRY PART-II	Ch-8 Redox reactions	<p>The learner will be able to:</p> <ul style="list-style-type: none"> Classify the redox reactions as a oxidation and reduction reactions . Define the terms oxidation, reduction, oxidant (oxidising agent) and reductant (reducing agent). Understand the mechanism of redox reactions by electron transfer process. Demonstrate how to identify oxidant and reductant in a reaction with the help of oxidation number. Classify redox reaction into combination (synthesis), decomposition, displacement and disproportionation reactions. Comparative order among various reductants and oxidants. Know about balance chemical equations using (i) oxidation number (ii) half reaction method. Understand the concept of redox reactions in

				terms of electrode processes.
9	XI	NCERT CHEMISTRY PART-II	Ch-9 Hydrogen	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Compare the properties of hydrogen with alkali metal and halogen with examples and predict the position of hydrogen in the periodic table • Enlist the source of occurrence and preparation of dihydrogen on a small and commercial scale. • Differentiate between isotopes of hydrogen. • Know about different types of hydrides with examples. • Understand the structure of water and use the knowledge for explaining physical and chemical properties. • Differentiate between 'hard' and 'soft' water and learn about different process of softening hard water. • Understand the structure of hydrogen peroxide. • Understand and use certain terms e.g., electron-deficient, electron precise, electron-rich, hydrogen economy. • Define catalytic hydrogenation.
10	XI	NCERT CHEMISTRY PART-II	Ch-10 The s-Block Elements	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Compare the general characteristics of different alkali metals and their compounds. • Understand the general characteristics of the different alkaline earth metals and their compounds. • Enlist the different process of manufacture of important sodium and calcium compounds including portland cement. • Value and uses of the biological significance of sodium, potassium, magnesium and calcium. • Differentiate between chemical reactivity with air and water on alkali metal and alkaline earth metals.
11	XI	NCERT CHEMISTRY PART-II	Ch-11 The P -Block Elements	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Enlist the general trends in the chemistry of different p-block elements. • Compare the trends in physical and chemical properties of group 13 and 14 elements. • Understand the anomalous behaviour of boron and carbon. • Differentiate the different allotropic forms of carbon. • Understand chemistry of some important compounds of boron, carbon and silicon. • Enlist the important uses of some of the boron and carbon compounds.

12	XI	NCERT CHEMISTRY PART-II	Ch-12 Organic Chemistry – Some Basic Principles And Techniques	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Understand reasons for tetra valence of carbon and shapes of organic molecules. • Draw and identify the structures of organic molecules in various ways. • Classify the organic compound on the basis of carbon skeleton. • Enlist the rules for naming the compounds according to IUPAC system of nomenclature and also derive their structures from the given names. • Understand the concept of organic reaction mechanism. • Compare the influence of electronic displacements on structure and reactivity of different organic compounds. • Classify the types of organic reactions as substitution, addition, elimination and rearrangement reactions. • Demonstrate the techniques of purification of organic compounds. • Understand the principles involved in quantitative analysis of organic compounds.
13	XI	NCERT CHEMISTRY PART-II	Ch-13 Hydrocarbons	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Draw and identify the name hydrocarbons according to IUPAC system of nomenclature. • Know the various types of structural isomers of alkanes, alkenes, alkynes and aromatic hydrocarbons. • Understand the various methods of preparation of hydrocarbons. • Differentiate between alkanes, alkenes on the basis of physical and chemical properties. • Draw and differentiate between various conformations of ethane. • Understand the role of hydrocarbons as sources of energy and for other industrial applications. • Comprehend the structure of benzene, explain Aromaticity . • Understand mechanism of electrophilic substitution reactions of benzene. • Compare the directive influence of substituents in mono substituted benzene ring. • Know about carcinogenicity and toxicity.
14	XI	NCERT CHEMISTRY PART-II	Ch-14 Environmental Chemistry	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Understand the meaning of environmental chemistry. • Understand air pollution and its causes. • Identify causes for ozone layer depletion and its effects. • Know about international standards for

				drinking water. <ul style="list-style-type: none"> • Understand the phenomenon of green house effect and global warming; their causes and consequences. • Know about the different causes of soil pollution. • Sensitize themselves and others for control of environmental pollution. • Appreciate the importance of green chemistry in day to day life.
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**DAV PUBLIC SCHOOLS, ODISHA ZONE-II
SPLIT-UP OF SYLLABUS 2021-22**

**CLASS: XI
SUB: Biology (044)**

**BOOKS PRESCRIBED: 1 NCERT Biology
2 Comprehensive Practical**

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE		
			HALF YEARLY	ANNUAL	
UNIT TEST - I	June	<u>Unit-1 Diversity in the living world</u> Ch-1 The living world Ch-2 Biological classification	15	12	
	July	Ch-3 Plant Kingdom Ch-4 Animal Kingdom			
	Aug		<u>Unit-II</u> Ch-5 Morphology of flowering plants	25	12
			Ch-6 Anatomy of flowering plants CH-7 Structural Organisation in Animals		
			<u>Unit III</u> Ch-8 Cell the unit of life Ch-9 Biomolecules	30	12
		Sept	Ch-10 Cell cycle and cell division Revision for HALF YEARLY EXAMINATION	Total: 70	
Oct		Unit-IV Plant Physiology Ch-11 Transport in plant Ch-12 Mineral nutrition Ch-13 Photosynthesis		17	
Nov			Ch-14 Respiration in plants		17
			Ch-15 Plant growth and development		
			Unit-V Animal physiology Ch-16 Digestion and absorption Ch-17 Breathing and Exchange of gas		
ANNUAL UNIT	Dec	Ch-18 Body fluids and circulation Ch-19 Excretory products and their			

		elimination Ch-20 Locomotion and movement		
		Ch-21 Neural control and co-ordination Ch-22 Chemical co-ordination and Integration		
	Jan	Revision for PRE-ANNUAL		
	Feb	Revision for ANNUAL EXAMINATION		
				Total: 70

QUESTION PATTERN

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	1	10	10
VSA(AR)	1	4	04
CASE-STUDY BASED SA	4	2	08
SA - I	2	9	18
SA-II	3	5	15
LA	5	03	15
Total		33	70

DESIGN

Time: 3 Hrs.

Max. Marks: 70

Weightage and the distribution of marks over different dimensions of the question paper shall be as follows:

WEIGHTAGE TO CONTENT/SUBJECT UNITS

Unit No.	Title	Marks
Unit- I	Diversity in Living World	12
Unit-II	Structural Organization in Animals and Plants	12
Unit-III	Cell: Structure and Functions	12
Unit- IV	Plant Physiology	17
Unit - V	Human physiology	17
Total:		70

SCHEME OF OPTIONS

- There is no overall choice in the paper. However, there is an internal choice in one question of AR of 1mark weightage, two questions of 2marks weightage, two questions of 3marks weightage and all the three questions of 5 marks weightage.

BIOLOGY (PRACTICAL)**MAX. MARKS: - 30 60 PERIODS TIME: 3 HRS.**

SL NO.	MO NTH	DETAILS OF THE EXPERIMENTS TO BE PERFORMED	DETAILS OF THE SPOTTINGS TO BE PERFORMED
1.	June	1. Study and describe three locally available common flowering plants one each of the families Solanaceae, Fabaceae and Liliaceae.	----
2.	July	2. Preparation and study of T.S Dicot and Monocot roots and stems	1. Study of plant specimens, slides/models of bacteria, Oscillatoria, spirogyra, Rhizopus, Mushroom, Yeast, Liverwort, Moss, Pine, fern, Lichen, one monocot and one dicot plant.
3.	Aug.	3. Study osmosis by potato osmometer.	2. Study of Animal specimens/ slides/Models of Amoeba, Hydra, Liver fluke, Ascaris, Leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon, rabbit.
4.	Sep.	4. Study of distribution of stomata for the comparative study of rates of transpiration.	3. a. Study of palisade cell, parenchyma, collenchyma, sclerenchyma, xylem, phloem from plant tissue. b. Squamous epithelium, muscle fibre and mammalian blood smear from animal tissue through temporary or permanent slides.
5.	Oct.	5. Test for the presence of sugar starch and proteins and fats.	4. Study of Mitosis in onion root tip cells and grasshopper cells from permanent slides. 5. Study of imbibition in seeds/ raisins
6.	Nov.	6. Separation of plant pigments through paper chromatography. 7. Study the rate of respiration.	6. Study of different modifications in root, stem and leaves. 7. Study of different types of cymose and racemose inflorescence 8. Observation and Comment on the experimental set up for showing aerobic respiration, phototropism and apical bud removal and suction due to transpiration.
7.	Dec.	8. To test the presence of sugar and urea in urine. 9. To test the presence of albumin and Bile salts in urine.	9. Study of human skeleton and types of joints. 10. Study of external Morphology of cockroach through specimens/ models.

Subject: Biology (Practical) Std. XII Max. Marks: - 30 60 periods Time: 3 hrs.

Sec- A	One major experiment	5 Marks
	One minor experiment	4 Marks
Sec- B	Slide preparation	5 Marks
Sec- C	Spotting	7 Marks
Sec – D	Practical Record + viva voce	4 Marks
Sec – E	Project Record + viva voce	5 Marks
Total		30 Marks

BLUE PRINT (HALF -YEARLY)

Sl.No.	CONTENTS UNIT/FORMS OF QUESTIONS	VSA (1)	VSA (AR) (1)	CASE STUDY BASED (4)	SA-1(2)	SA-2(3)	LA (5)	TOTAL MARKS
1	UNIT I: DIVERSITY IN LIVING WORLD	1X4=4 CH-2,3,4	1x2=2 CH-1		2x2=4 CH- 2,4		1X5=5 CH-3	15
2	UNIT II: STRUCTURAL ORGANISATIONS IN PLANTS AND ANIMALS	1X3=3 CH-5,6,7	1x1=1 CH-6	4x1=4 CH-6	2X3=6 CH-5,7	3X2=6 CH-6,7	1X5=5 CH-5	25
3	UNIT III: CELL: STRUCTURE AND FUNCTION	1X3=3 CH-8,9,10	1x1=1 CH-8	4x1=4 CH-10	2X4=8 CH-8,9,10	3X3=9 CH-8,9,10	1X5=5 CH-9	30
	TOTAL	1X10=10	1x4=4	4x2=8	2X9=18	3X5=15	5X3=15	70

LEARNING OUTCOMES

SUBJECT: BIOLOGY

Sl. No	Class	Name of the Text Book	Chapter/ Lesson	Learning Outcomes
1	XI	Biology Textbook for Class 11	Ch.1. The Living World	Learner will be able to:
				i) Define the terms biodiversity, classification, identification, taxonomy and Nomenclature.
				ii) Enumerate the universal rules of Binomial nomenclature given by the ICBN and ICZN.
				iii) Explain the taxonomic categories and their hierarchy with suitable examples.
				iv) Analyse the taxonomic aids and their importance.
				v) Exhibit the values of honesty and rational thinking for conserving life.
				vi) Describe the concept of classification.
2	XI		Ch.2. Biological classification	Learner will be able to:
				i) Describe the five kingdom classification and mention its advantages over the two Kingdom system of classification.
				ii) Define the terms Isogamy, Anisogamy, Oogamy, plasmogamy, karyogamy and dikaryon.
				iii)Mention the distinguishing features of five kingdoms.
				iv) Enlist the group of organisms that are not included in the five-kingdom classification and describe them.
				v) Explain the terms: gametophyte and sporophyte and alternation of generation with reference to plants.
				vi) Analyse the basis of classification.
3	XI		Ch.3. Plant Kingdom	Learner will be able to:
				i) Describe artificial , natural system of classification and explain the differences between them.
				ii) Explain heterospory and seed habit.
				iii) Compare the different classes of Algae on the basis of their pigments, reserve food materials,

				thallus organization and reproduction.
				iv) Explain double fertilization and alternation of generations in angiosperms.
				v) Enumerate the characteristics of five divisions of plant Kingdom.
				vi) Enlist the different types of life cycles exhibited by the different plant groups with suitable examples.
4	XI		Ch.4. Animal Kingdom	Learner will be able to:
				i) Define the terms of Radial symmetry, Bilateral symmetry asymmetry, Triploblastic, Diploblastic, Acoelomate, Pseudocoelomate and Metamerism.
				ii)Analyze the comparative study of invertebrates and vertebrates.
				iii) Remember the unique features of animal kingdom.
				iv) Demonstrate the levels of organization in Animals.
				v) Describe the salient features of different phyla.
				vi) Explain the phylogenetic relationship between different groups of animals.
5	XI		Ch.5. Morphology of Flowering Plants	Learner will be able to :
				i) Enlist various morphological aspects of plants.
				ii) Describe the modification of stem, roots and leaves with examples.
				iii) Classify the angiosperms on the basis of cotyledons.
				iv) Explain the different types of Phyllotaxy. Placentation and Aestivation with examples.
				v) Demonstrate the taxonomic descriptions of important Families.
				vi) Compare the distinguishing features of families and give common examples and their economic importance.
				vii) Define Inflorescence and distinguish between Racemose and Cymose inflorescence.
6	XI		Ch.6. Anatomy of Flowering Plants	Learner will be able to:
				i) Describe the different types of plant tissues, their location in the plant body and functions.
				ii) Explain the three different tissue systems in plants with examples.
				iii) Classify meristematic tissues on the basis of their position in the plant body and origin.
				iv) Differentiate between different types of wood.
				v) Create an idea about the secondary growth of plants that occurs in dicot stem and dicot root.
				vi) Compare between the meristematic and permanent tissues, simple and complex tissues.
7	XI		Ch.7. Structural Organization in Animals	Learner will be able to:
				i) Explain the basic structure, the location and functions of various simple and stratified Epithelial tissues.
				ii) Describe the three types of cell junctions and their functions.
				iii) Draw labelled diagram of different types of connective tissues.
				iv) Differentiate among striated and unstriated and cardiac muscles.
				v) Explain the external morphology the body divisions and appendages of Cockroach and distinguish between a male and female Cockroach.
				vi) Define the different types of animal tissues and mention their functions.
8	XI		Ch8. Cell: The unit of life	Learner will be able to:
				i) Analyze the concept of Prokaryotic and Eukaryotic cells and explain their unique features.
				ii) Draw the labelled diagram of different cell organelles.

				iii) Enlist the different types of chromosomes on the basis of the position of centromere.
				iv) Define the terms of kinetochore, Sat-chromosome, Histones, their locations and functions.
				v) Describe the structural components of endomembrane system and its function.
				vi) Explain the structure and functions of cilia, flagella and nucleus.
9	XI		Ch.9. Biomolecules	Learner will be able to:
				i) Define the following terms: Enzyme, Apoenzyme, Coenzyme, Prosthetic group, Inhibition of enzyme action.
				ii) Analyze the chemical composition of plant and animal tissues.
				iii) Distinguish between primary and secondary metabolites.
				iv) Describe the structure and functions of biomolecules -proteins, polysaccharides and nucleic acids.
				v) Explain the classification and nomenclature of enzymes.
				vi) Describe the mechanism of enzyme action and how it is affected by various factors like temperature pH, substrate concentration etc.
10	XI		Ch.10. Cell Cycle and Cell Division	Learner will be able to:
				i) Explain the events that occur during interphase.
				ii) Draw a diagram to show the events in a cell cycle.
				iii) Mention the significance of mitosis and meiosis.
				iv) Describe the events of mitosis and meiosis.
				v) Enlist the different stages of prophase 1 of meiosis 1.
11	XI		Ch 11. Transport in Plants	Learner will be able to:
				vi) Compare between mitosis and meiosis.
				i) Define the terms: Diffusion, Osmosis, facilitated diffusion Translocation, Active transport and compare each with other.
				ii) Explain water potential, solute potential and pressure potential.
				iii) Describe the uptake and transport of mineral ions in plants.
				iv) Demonstrate osmosis by taking the potato osmometer.
				v) Explain phloem transport and the pressure flow hypothesis explaining it.
				vi) Define the terms Plasmolysis, Deplasmolysis, Turgor pressure, Hypotonic, Isotonic and Hypertonic solution.
12	XI		Ch.12. Mineral Nutrition	Learner will be able to:
				i) Compare the micro and macro nutrients and mention their role.
				ii) Demonstrate the technique of hydroponics.
				iii) Write the criteria of essentiality of mineral nutrients.
				iv) Describe the nitrogen cycle operating in nature.
				v) Explain the toxicity of micronutrients.
				vi) Describe the formation of root nodules in leguminous plants.
13	XI		Ch13. Photosynthesis in higher Plants	Learner will be able to:
				i) Enlist the summary of Light and Dark reaction.
				ii) Classify the plants into C3 and C4 on the basis of the mechanism of photosynthesis.
				iii) Define PSI, PSII, LHC, Action spectrum and Absorption spectrum.
				iv) Create an idea about the mechanism of Cyclic and Noncyclic photophosphorylation.
				v) Compare PSI with PSII.

				vi) Describe photorespiration and its significance.
14	XI		Ch.14. Respiration in Plants	Learner will be able to:
				i) Define Cellular Respiration, Aerobic and Anaerobic respiration, Respiratory quotient, Fermentation.
				ii) Compare the mechanism of Glycolysis and TCA cycle.
				iii) Describe the steps of ETS and give a schematic representation of it.
				iv) Explain Krebs's cycle and its significance.
				v) Draw conclusion about balance sheet of ATP.
				vi) Explain the respiratory quotient and show the respiratory quotient for various respiratory substrates.
15	XI		Ch.15. Plant Growth and Development	Learner will be able to:
				i) Enlist the plant growth regulators, mention their chemical nature and the physiological effects of each of them on plant growth and development.
				ii) Define photoperiodism and describe Long day plants, Short day plants and Day neutral plants with examples.
				iii) Analyze how the growth of plants differs from the growth of animals.
				iv) Explain Geometric and Arithmetic growth.
				v) Describe seed dormancy, mention its causes and describe breaking up seed dormancy in nature.
				vi) Define the terms Differentiation, Dedifferentiation and Redifferentiation with examples.
16	XI		Ch.16. Digestion and Absorption	
				i) List the digestive glands, their secretions associated with digestion.
				ii) Draw a labelled diagram of the alimentary canal.
				iii) Describe the process of digestion occurring in different parts of the alimentary canal and the enzymes involved.
				iv) Enumerate the different methods and the sites where absorption of the digested food products occurs.
				v) Explain the neural and hormonal regulation of the activities of gastrointestinal tract.
				vi) Compare the two forms of protein energy malnutrition (PEM).
17	XI		Ch.17. Breathing	Learner will be able to:
				i) Explain the steps of mechanism of respiration.
				ii) Show diagrammatically the passage of air during the process.
				iii) Draw a labelled diagram of respiratory system of man.
				iv) Describe the transport and exchange of respiratory gases.
				v) List and explain the different respiratory volumes and respiratory capacities.
				vi) Explain briefly the regulation of respiration.
18	XI		Ch.18. Body Fluids and Circulation	Learner will be able to:
				i) Describe briefly the composition of blood and its functions.
				ii) Describe the circulatory pathways and explain the terms: open circulatory system, closed circulatory system, single circulation, incomplete double circulation, double circulation.

				iii) Explain the course of blood flow in the heart and the events in cardiac cycle.
				iv) Draw the labelled diagram of circulatory system of human beings.
				v) State the origin and conduction of cardiac impulse.
				vi) Enlist the events of blood clotting.
19	XI		Ch.19. Excretory Products and their Elimination	Learner will be able to:
				i) Explain the structure of a Nephron.
				ii) Describe the structure and function of Kidneys.
				iii) List the secretory organs of different groups of animals.
				iv) Explain the mechanism of urine formation and the role of different parts of a Nephron in urine formation.
				v) State the role of lungs, liver and skin in excretion.
				vi) Describe the role of countercurrent mechanism in concentrating the urine.
20	XI		Ch.20. Locomotion and Movement	Learner will be able to:
				i) Explain the ultrastructure of muscles and the mechanism of muscle contraction.
				ii) Describe the different types of muscles based on the location in the body.
				iii) List the human skeletal system and the component bones and their number in each of them.
				iv) Draw the diagrams of different stages of muscle contraction, bones of skull, vertebral column, ribcage, forelimb and hindlimb.
				v) Explain the disorders that causes and symptoms of the disorders related to muscles and skeletal system.
				vi) Define the contractile proteins and their functions.
21	XI		Ch.21. Neural Control and Co-	Learner will be able to:
				i) Differentiate between the central nervous system and peripheral nervous system.
				ii) Draw a labelled diagram of a Neuron and describe its structure.
				iii) Explain Reflex Action and Reflex Arc which suitable examples.
				iv) Describe the structure of Human Eye and the mechanism of vision.
				v) Explain the synapses and the conduction of nerve impulse across the synapse.
				vi) Analyze how the nose functions as an organ of olfaction.
22	XI		Ch.22. Chemical Co- ordination and Integration	Learner will be able to:
				i) Explain the chemical nature and mechanism of action of hormones.
				ii) Describe the location structure and functions of the different Endocrine glands.
				iii) State the functions of hormones from Heart, Kidney and Gastrointestinal glands.
				v) Describe the mechanism of Hormone action.
				vi) Analyze why the pituitary gland is known as the master gland.

DAV PUBLIC SCHOOLS, ODISHA, ZONE-II

SPLIT-UP OF SYLLABUS 2021-22

CLASS: XI

Sub: Computer Science (083)

Book Prescribed: Computer Science with Python by Sumita Arora, Dhanpat Rai & Co

Exams	Months	Chapters / Topics to be taught	Chapter wise weightage		
			Half Yearly	PA / Annual	
UNIT TEST – I (August)		Unit I: Computer Systems and Organisation		10	
	JUNE	➤ Computer System Overview ➤ Data Representation	05 07		
	JULY	➤ Boolean Logic ➤ Insight into Program Execution	08 05		
		Unit II: Computational Thinking and Programming - 1		45	
	JULY	➤ Computational Thinking and Getting started with Python ➤ Python Fundamentals	04 08		
	AUGUST	➤ Data Handling ➤ Conditional and Iterative Statements	08 15		
	SEPTEMBER	➤ String Manipulation	10 Total : 70		
Revision for Half Yearly Exam					
UNIT TEST – II (December)	OCTOBER	➤ Debugging Programs		15	
	NOVEMBER	➤ List Manipulation ➤ Tuples ➤ Dictionaries			
		DECEMBER	➤ Understanding Sorting		
			Unit III: Society, Law and Ethics		
	DECEMBER	➤ Cyber Safety			
PRE-ANNUAL & ANNUAL	JANUARY	➤ Online Access and Computer Security Revision for Pre-Annual			
	FEBRUARY	Revision for Annual Exam			
				Total : 70	

Practical

S.No.	Area	Marks (Total=30)
1	Lab Test (12 marks)	
	Python program (60% logic + 20% documentation + 20 % code quality)	12
2	Report File + Viva (10 marks)	
	Report file : Minimum 20 python programs.	7
	Viva voce (based on the report file)	3
3	Project (8 marks) (that uses most of the concepts that have been learnt See CS-XII for the rules regarding the projects)	8

4. Suggested Practical List

Python Programming

- Input a welcome message and display it.
- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.
- Given two integers x and n, compute x^n .
- Write a program to input the value of x and n and print the sum of the following series:
 - $1+X+X^2+ X^3+X^4+\dots\dots X^n$
 - $1-X+X^2-X^3+X^4-\dots\dots X^n$
 - $X + \frac{X^2}{2} - \frac{X^3}{3} + \frac{X^4}{4} \dots\dots\dots \frac{X^n}{n}$
 - $X + \frac{X^2}{2!} - \frac{X^3}{3!} + \frac{X^4}{4!} \dots\dots\dots \frac{X^n}{n!}$
- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list of elements, sort in ascending/descending order using Bubble/Insertion sort.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Input a list of numbers and test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such number from the given list of numbers.
- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.

BLUE PRINT
XI- COMPUTER SCIENCE
HALF YEARLY EXAMINATION
2021-22

Name of the Chapter	No.of 1 Mark Question	No.of 2 Mark Question	No.of 3 Mark Question	No.of 4 Mark Question	Total No. of Questions
Computer System Overview	3	1			4
Data Representation	5	1			6
Boolean Logic	4	2			6
Insight into Program Execution	3	1			4
Computational Thinking and Getting started with Python	2	1			3
Python Fundamentals	3	1	1		5
Data Handling	3	1	1		5
Conditional and Iterative Statements	4	2	1	1	7
String Manipulation	2	2		1	5
					45
Total Mark	29X01=29	12X02=24	03X03=09	02X04=08	70

CLASS: XI
SUB: Physical Education (048)

Books Prescribed: 1. Health and Physical Education, Class-XI, Goyal Publication

Reference Books: 1. Introduction to Physical and Health Education, Class-XI, Avichal Publication
 2. A Text Book of Physical Education, Class-XI, Candid Publication

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
	JUNE	UNIT-1: Changing Trends & Carrier in Physical Education	14	06
	JULY	UNIT-2: Olympic value education	11	06
		UNIT-3: Physical Fitness , Wellness & Lifestyle	14	06
UNIT TEST-I	AUGUST	UNIT-4 Physical education and sports for CWSN(children with special need –Divyang)	11	09
		UNIT-5: Yoga	10	05
	SEPTEMBER	UNIT-6:Physical Activity & Leadership training	10	05
		REVISION FOR HALF YEARLY EXAM	Total: 70	
	OCTOBER	UNIT-7: Test & Measurement in Sports		06

	NOVEMBER	UNIT-8: Fundamentals of Anatomy & Physiology & kinesiology in sports		09
UNIT TEST-II	DECEMBER	UNIT-9: Psychology & Sports		09
		UNIT-10: Training & Doping in Sports		09
	JANUARY	PRE ANNUAL EXAM REVISION FOR ANNUAL EXAM		
	FEBRUARY	REVISION FOR ANNUAL EXAM		
				Total:70

QUESTION PATTERN

Type of Question(s)	Mark(s) per Question	Total no. of Questions	Total Marks
VSA/AR	01	12	12
SA-I	02	04	08
SA-II	03	10	30
LA	05	04	20
Total:		30	70

BLUE PRINT OF QUESTION PAPER FOR HALF YEARLY EXAM

NAME OF THE UNIT	1 MARK	2 MARKS	3 MARKS	5 MARKS	TOTAL MARKS
Unit 01: Changing trends and career in physical education.	3	-	2	1	14
Unit 02 : Olympic value education.	1	1	1	1	11
Unit 03 : physical fitness ,wellness and lifestyle.	3	-	2	1	14
Unit 04: Physical Education & Sports for CWNS (Children With Special Needs- Divyang)	1	1	1	1	11
Unit 05 : Yoga	2	1	2	-	10
Unit 06 : physical activity and leadership training.	2	1	2	-	10
	12	4	10	4	70

PHYSICAL EDUCATION (PRACTICAL)

Max. Marks: - 30

60 periods

Time: 3 hrs.

SL NO.	PRACTICALS TO BE CONDUCTED	MARK
1.	▪ Physical Fitness Test	6
2.	▪ Skill of any one Individual Game of choice from the given list****	7
3.	▪ Yogic practices	7
4.	▪ Viva voce	5
5.	▪ Record File***	5
	Total	30

*** Athletics, Archery, Badminton, Gymnastics Judo, Swimming, Table Tennis, Taekwondo, Tennis, Bocce, shooting. Skating, rope skipping, yoga & unified basket ball

Record file should include:

Practical-1: Labelled diagram of 400 mt. and field with computations.

Practical-2: Computation of BMI from family or neighbourhood and graphical representation of data.

Practical-3: Labelled diagram of field and equipment of any one game of your choice out of the above list.

Practical-4: Explanation and list of current National Awardees (Dronacharya Award, Arjun Award and Rajiv Gandhi KhelRatna Award)

Practical-5: Pictorial presentation of any five asanas for improving concentration.

LEARNING OUTCOMES-PHYSICAL EDUCATION

TOPIC	LEARNING OUTCOMES
CH -1 CHANGING TRENDS AND CAREER IN PHYSICAL EDUCATION	The learners will be able to ...
	Understand the meaning and definition of Physical Education
	Know about aims and objectives of Physical Education.
	Know about various career options in Physical Education.
	Know about competitions & championships in various sports of National and International Level.
	Know about the KheloIndia Programme.
CH- 2 OLYMPIC VALUE EDUCATION	The learners will be able to.....
	Know about the Olympics, Paralympics and Special Olympics.
	Know about the Olympic Symbols, Ideals, Objectives and values of Olympism.
	Know about the International Olympic Committee.
	Know about the Indian Olympic Association.
CH- 3 PHYSICAL FITNESS, WELLNESS AND LIFESTYLE	The learners will be able to
	Understand the meaning and importance of Physical Fitness, Wellness and Lifestyle.
	Know about Components of Physical Fitness and Wellness.
	Know about Components of Health-Related Fitness.
CH-4 PHYSICAL EDUCATION AND SPORTS FOR CWSN	The learners able.....
	To know about aims and objectives of Adaptive Physical Education.
	To know about organisations promoting adaptive sports.
	To understand the concept of inclusion, its need and implementation.
	To know about role of various professionals for Children with Special Needs.
CH-5 YOGA AND LIFESTYLE	The learners will be able to ...
	Understand the meaning and importance of Yoga.

	Know about the elements of Yoga.
	Know about the Asanas,Pranayama, Meditation and Yogic Kriyas.
	Know about the concentration and Its related Asanas.
	Know about the concentration and Its related Asanas.
	Know about the relaxation techniques for improving concentration.
CH-6	The learners will be able to ...
PHYSICAL ACTIVITY AND LEADERSHIP TRAINING.	Know about the leadership qualities and the role of a leader.
	Know about the creating leaders through Physical Education
	Understand the meaning, objectives and types of Adventure Sports .
	Know about safety measures to prevent sports injuries.
CH- 7	The learners will be able to...
TEST, MEASUREMENT AND EVALUATION	Know about Test, Measurement and Evaluation.
	Know about Importance of Test, Measurement and Evaluation in Sports.
	Understand the calculation of BMI and Waist- Hip Ratio.
	Understand the Somato types.
	Understand measurement of Health-related Fitness.
CH- 8	The learners will be able to ...
FUNDAMENTALS OF ANATOMY, PHYSIOLOGY AND KINESIOLOGY IN SPORTS	Understand the importance of Anatomy, Physiology and Kinesiology
	Understand the functions of the skeleton system, Classification of bones and types of joints.
	Know about the properties and functions of muscles.
	Know about the functions and structures of the respiratory system and the circulatory system.
	Know about the equilibrium – dynamic and static and centre of gravity and its application in sports.
CH – 9	The learners will able to ...
PSYCHOLOGY AND SPORTS	Understand the importance of Psychology in Physical Education and Sports
	Understand growth and development and their differences.
	Know about developmental characteristics at different stages of development.
	Know about the Adolescent problems and their management.
CH – 10	The learners will be able to ...

TRAINING AND DOPING IN SPORTS.	Understand the meaning and concept and know about principles of sports training
	Know about warming-up and limbering down
	Know about skill, technique and style.
	Understand concept and classification of doping and understand prohibited substances and their side effects.
	Know about dealing with alcohol and substance abuse.

DAV PUBLIC SCHOOLS, ODISHA ZONE-II
SPLIT UP SYLLABUS FOR THE SESSION 2021-22
CLASS-XI, SUBJECT-ECONOMICS (030)
BOOK PRESCRIBED

PART – A: INTRODUCTORY MICRO ECONOMICS (NCERT)

PART- B: STATISTICS FOR ECONOMICS (NCERT)

	MONTH	CHAPTER/ TOPICSTOBE TAUGHT	UNITWISEWEIGHTAGE	
			HALFYEARLY	ANNUAL
UNIT TEST-I	JUNE	<u>PART-A:STATISTICSFOR ECONOMICS</u> <ul style="list-style-type: none"> UNIT-I INTRODUCTION <u>PART-B:INTRODUCTORYMICROECONOMICS</u> <ul style="list-style-type: none"> Meaning of Micro and Macro Economics Positive and Normative Economics Central problems of an Economy Concept of PPC and opportunity cost 	08	04
	JULY	<u>PART-B: INTRODUCTORY MICROECONOMICS</u> UNIT-V- CONSUMER’S EQUILIBRIUM AND DEMAND <ul style="list-style-type: none"> Utility, Law of Diminishing marginal utility, consumer’s equilibrium by utility analysis Indifference curve analysis of consumer’s Equilibrium Demand, shift, movement and determinant Price Elasticity of Demand Factors and Measurement of Price Elasticity of Demand 	08 20	13
	AUGUST	<u>PART-A:STATISTICSFOR ECONOMICS</u> UNIT-II COLLECTION, ORGANIZATION AND PRESENTATION OF DATA UNIT-III STATISTICAL TOOLS AND INTERPRETATION <ul style="list-style-type: none"> Measures of central tendency <u>PART-B: INTRODUCTORY MICROECONOMICS</u> UNIT-VI PRODUCER BEHAVIOUR AND SUPPLY <ul style="list-style-type: none"> Production Function-short run and long run 	12 14 12	Unit I+II 13 27

HALF YEARLY EXAMINATION	SEPTEMBER	<u>PART-B: INTRODUCTORY MICROECONOMICS</u> <ul style="list-style-type: none"> • Concept of TP, MP,AP • Returns to a factor <u>UNIT VI</u> <ul style="list-style-type: none"> • Producers behavior and supply • Concept of cost and revenue <u>PART-A- STATISTICS FOR ECONOMICS</u> UNIT III- Measure of Dispersion up to Quartile Deviation	06	13
	OCTOBER	<u>REVISION FOR HALF YEARLY EXAMINATION</u>	TOTAL 80	
	NOVEMBER	<u>PART-A:STATISTICSFOR ECONOMICS</u> UNIT-III Measures of Dispersion; Mean Deviation and Standard Deviation, Correlation <u>PART-B: INTRODUCTORY MICROECONOMICS</u> UNIT VI: Producers equilibrium and supply, Elasticity of supply		

		UNIT VII- Forms of Market and price determination under perfect competition with simple application <ul style="list-style-type: none"> Perfect competition: Features, determinants and effect of shift in demand and supply 		10
UNIT TEST- II	DECEMBER	<u>PART-B:INTRODUCTORYMICROECONOMICS</u> Other market forms Monopoly, Monopolistic <ul style="list-style-type: none"> Simple application of demand and supply: Price ceiling and price floor <u>PART-A:STATISTICSFOR ECONOMICS</u> <ul style="list-style-type: none"> Introduction to index number 		
PRE-ANNUAL EXAMINATION	JANUARY	REVISION FOR PRE-ANNUAL EXAMINATION PRE-ANNUAL EXAMINATION		
	FEBRUARY	REVISION FOR ANNUAL EXAMINATION		
		TOTAL		80
		PROJECTWORK		20
		MAXIMUMMARK		100

QUESTION PAPER DESIGN

Theory: 80 Marks+ project: 20 Marks

Sl. No.	Typology of questions	Very short answer/ MCQ 1 Marks	Short Answer (I) 3 marks	Short Answer (II) 4 Marks	Long Answer 6 Marks	Marks
1	Remembering	5	1	2	1	22
2	Understanding	5	1	2	1	22
3	Application based	5	1	1	1	18
4	HOT SKILLS (Analyse and)	5	1	1	1	18
	TOTAL	20X1=20	4X3=12	6X4=24	4X6=24	80 +20(PROJECT)

NOTE-There will be internal choices in questions of 1 mark, 3 marks, 4 marks and 6 marks in both sections (A&B). In all, total 8 internal choices.

PROJECTWORK- Each student will prepare one project work using concepts from both part A and part B.

MARKING SCHEME FOR PROJECT WORKS

SL.NO.	HEADING	MARKS ALLOTTED
1	RELEVANCE OF THE TOPICS	3
2	KNOWLEDGE CONTENT/RESEARCH WORKS	6
3	PRESENTATION TECHNIQUE	3
4	VIVA	8
	TOTAL	20

BLUE PRINT

CHAPTERS	Distribution of Marks				
	1	3	4	6	TOTAL
UNIT-I Introduction	3	1	1	1	16
UNIT-II Collection, Organization and Presentation of data	3	1	1		10
UNIT-III Statistical tools and Interpretation	4		1	1	14
PART- A					40
UNIT-V- CONSUMER'S EQUILIBRIUM AND DEMAND	1	1			4
UNIT-VI PRODUCER BEHAVIOUR AND SUPPLY	2		1		6
	2		1		6
	3		1	1	13
	2	1		1	11
PART-B					40
TOTAL (34)	20X1= 20	3X4= 12	4X6= 24	6X4= 24	80

LEARNING OUTCOMES SUBJECT: ECONOMICS

SL. NO	CLASS	NAME OF THE TEXT BOOK	CHAPTER/ LESSON	LEARNING OUTCOMES
1	XI	INTRODUCTORY MICRO ECONOMICS	INTRODUCTION	Understand the basic and the central problems of an economy
				Understand the PPC and its application
				Understand microeconomics, macroeconomics, positive and normative economics.
2	XI		CONSUMER'S EQUILIBRIUM	Understand the various concept of utility.
				Relationship between TU and MU
				Understand the law of DMU.
				Understand different IC analysis, order of preference (Rank) and its properties and application.
				Understand the budget line/price line of the consumer.

3	XI		DEMAND	Understand the meaning , kinds and different determinants of demand
4	XI		ELASTICITY OF DEMAND	To learn about the elasticity of demand, its types, proportionate method and factor affect elasticity of demand
5	XI		PRODUCTION FUNCTION	To learn about the practicals based on ED.
6	XI		COST ANALYSIS	Learners are able to understand about the concept of product and production i.e. TP, AP and MP.
				Understand about the concept of cost of production.
				Learners can be able to know about the various short run costs curves.
7	XI		REVENUE	They also know about the behaviour of cost of production as the level of output is raised.
				Learners will be able to know about the relationship between the level of sales and revenue and concept of revenue.
8	XI		PRODUCER'S EQUILIBRIUM	They also learn about the relationship between TR.AR and MR with schedule and diagram.
				To know about the concept of producer's equilibrium i.e. its determination.
9	XI		SUPPLY	Learners will be able to learn the conditions of producer's equilibrium in term of MR and MC approach.
				Learners can learn about the meaning of supply and stock.
				They can learn about the determinants of supply,movement& shift of supply curve
10	XI		MAIN MARKET FORMS	They can also learn about elasticity of supply & its applications part.
				Understand about the concept of 'Market from economic point of view

				and layman view
				They learn different market structures, features and characteristics of different forms of market.
11	XI		PRICE DETERMINATION WITH SIMPLE APPLICATION	They learn the nature of revenue curve of different market i.e perfectly competitive market, monopoly market and monopolistic market.
				Understand about the concept of price, role of demand and supply in determining equilibrium price.
				Understand about the concept of Price Ceiling and Price Floor with examples, diagrams and implications.
1	XI	STATISTICS FOR ECONOMICS	ECONOMICS: AN INTRODUCTION	Understand the meaning of economics through definitions given by different economists.
				Understand the usefulness of economic terms like production, consumption, distribution, economic & noneconomic activities.
				Understand about scarcity conditions & how it affects our daily life.
2	XI		MEANING, SCOPE & IMPORTANCE OF STATISTICS	Understand the meaning of statistics & its usefulness.
				Understand about quantitative and qualitative variable.
3	XI		COLLECTION OF DATA	Understand about the various functions , importance of statistics, limitation & distrust of statistics.
				Understand about statistical enquiry, role of Investigator, Enumerators, Respondents & statistical surveys.
				Understand about different methods of collecting primary & secondary data.
				Understand about construction of questionnaire schedule.
				Understand Pilot survey, census of India, sampling investigation

				technique & role of NSSO.
4	XI		ORGANISATION OF DATA	Understand about classification, methods, concept of variable, statistical series i.e individual, discrete and continuous.
				Understand the various types of continuous series.
				Understand about bi-variate frequency distribution.
5	XI		TABULAR PRESENTATION	Understand t textual presentation & requisities of a good table
				Understand the various parts of a table & types of table like purpose, nature of data & extent of coverage.
6	XI		DIAGRAMMATIC PRESENTATION	Understand the various trends of the data at a glance & to facilitate the comparison of various form of diagrams & graphs
				Understand various types of diagram & its utility.
				Understand about Pie diagram & its utility in statistics.
7	XI		GRAPHIC PRESENTATION	Understand various trends of data.
				Understand various types of graphs with predictions.
				Understand time series graphs with accuracy.
8	XI		ARITHMETIC MEAN	Understand about a single value, which is used to represent an entire set of data.
				Understand about the requisite of central tendency.
				Understand the various series, missing value, special cases, combined mean, properties of A.M, corrected mean & weighted
				mean to calculate A.M.
9	XI		MEDIAN & MODE	Understand about the important measures of central tendency.

				Learners can calculate & interpret the mode & the median.
				They understand the relative strength & weakness of the two measures.
10	XI		MEASURES OF DISPERSION	Understand the spread of the data or its variation around a central value.
				They can understand the Range, Q.D, M.D & S.D with series of calculation
				Understand about the relative as well as relative measures to calculate dispersion.
11	XI		CORRELATION	Understand the concept of two variables & know that they are positively or negatively related.
				Understand the various degree of correlation
				Understand the concept of Pearson's & Spearman's correlation.
12	XI		INDEX NUMBERS	Understand the origins and basic features of axiomatic, economic & stochastic approaches to price index.
				Learners can apply common elementary index formulae like Laspeyre's, Paasche's & Fisher's Ideal Method.
				Understand the symbols like P_0, P_1, Q_0 & Q_1 with base year 100.

DAV PUBLIC SCHOOLS, ODISHA, ZONE-II
SPLIT-UP OF SYLLABUS 2021-22

CLASS: XI

SUB: Accountancy (055)

BOOKS PRESCRIBED: Accountancy Part-I & Part-II (NCERT)

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
	JUNE & JULY	1. Theoretical Framework i. Introduction to Accounting	12	12
		ii. Theory base of Accounting 2. Accounting Process and Special Accounting Treatment	18	
		i. Recording of Transactions	22	
UNIT TEST – I	AUGUST	ii. Preparation of Bank Reconciliation Statement, Ledger and Trial Balance	16	40
	SEPTEMBER	iii. Accounting for Bills of Exchange PROJECT WORK	12 20	
		iv. Rectification of Errors		
	OCTOBER	REVISION AND HALF YEARLY EXAMINATION	Total: 100	
	NOVEMBER	v. Depreciation, Provisions & Reserves 3. Financial Statement of Sole Proprietorship i. From Complete Records (Final Account)		
UNIT TEST-II	DECEMBER	ii. From Incomplete Records (Single Entry System including conversion method)		20
		4. Computers in Accounting.		08
PRE-ANNUAL	JANUARY	Project Work Final discussion REVISION & PRE- ANNUAL EXAMINATION		20
ANNUAL	FEBRUARY	REVISION AND ANNUAL EXAMINATION		
Total:				100

QUESTION PATTERN (HALF-YEARLY)

Type of Question(s)	Mark(s) per Question	Total no. Of Questions	Total Marks
VSA	1	20	20
SA – I	3	2	06
SA – II	4	5	20
LA – I	6	3	18
LA - II	8	2	16
Total:		32	80

NB : PROJECT WORK TOPIC – ACCOUNTING CYCLE(Up to Trial Balance) – 20 Marks

There will be a competency based question carrying 3 -4 marks respectively as per latest CBSE Syllabus.

BLUE PRINT (HALF-YEARLY)

SL NO	CONTENTS UNIT / FORMS OF QUESTIONS	VSA (1)	SA-1 (3)	SA-2 (4)	LA-1 (6)	LA-2 (8)	TOTAL MARKS
1	Part-A Theoretical Framework	5	1	1			12
	i. Introduction to Accountancy						
	ii. Theory base of Accounting	4	-	2	1		18
2	Accounting Process & Special accounting treatment	4	-	1	1	1	22
	i. Recording of transaction						
	ii. Preparation of Bank Reconciliation Statement Ledger, trial balance	3	1	1	1		16
	iii. Accounting for Bills of exchange	4				1	12
Total:		1(20)	3(2)	4(5)	6(3)	8(2)	80

BLUE PRINT (PRE-ANNUAL EXAM)

SL NO	CONTENTS UNIT / FORMS OF QUESTIONS	VSA (1)	SA-1 (3)	SA-2 (4)	LA-1 (6)	LA-2 (8)	TOTAL MARKS
1	Part-A Theoretical Framework	3	1	-			06
	i. Introduction to Accountancy						
	ii. Theory base of Accounting	2	-	1	-		06
2	Accounting Process & Special accounting treatment	5	-	1	-	1	17
	i. Recording of transaction						
	ii. Preparation of Bank Reconciliation Statement Ledger, trial balance	-	-	-	1		06
	iii. Accounting for Bills of exchange	1	-	1		-	05
	iv. Rectification of Errors	1	-	1			05
	v. Depreciation, Provisions & Reserves	1			1		07
3	Part-B Financial Statement of Sole Proprietorship.						
	i. From Complete Records.	4				1	12
	ii. From Incomplete Records	2			1		08
4	Computers in Accounting	1	1	1			08
Total:		1(20)	3(2)	4(5)	6(3)	8(2)	80

QUESTION PATTERN (ANNUAL)

Type of Question(s)	Mark(s) per Question	Total no. Of Questions	Total Marks
VSA	1	20	20
SA – I	3	2	06
SA – II	4	5	20
LA – I	6	3	18
LA - II	8	2	16
Total:		32	80

N.B.: Project work topic :Accounting Cycle(After Trial Balance to Balance Sheet)- 20 Marks

TOTAL-100 Marks

- **Project Work**
1.Comprehensive project of any sole proprietorship business. This may start with journal entries ,their ledger posting, preparation of Trial Balance ,Trading and Profit and Loss Account and Balance Sheet. Expenses, Incomes and profit(loss), assets and liabilities are to be depicted using pie chart/bar diagram.

N.B.:

- Blue print of question papers for Annual Examination will be as per DAV CAE guidelines.
- Question paper for Half Yearly will have internal choice in two 3 marks ,two 4 marks & 8 marks questions.

LEARNING OUTCOMES

SUBJECT: ACCOUNTANCY (055)

SL. No.	Class	Name of the Text Book	Chapter / Lesson	Learning Outcomes
1		ACCOUNTANCY –I ACCOUNTANCY –II (NCERT)	Theoretical Framework	1.Understands accounting as a source of information
				2.Appreciates the role of accounting as a language of business.
				3.Explains the various terms used in accounting.
				4.Analyzes and evaluate accounting concepts for preparation of financial statements
				5.understands and applies the process of GST.
			Accounting	1.Explains the concept of accounting equation.
		2.Develops the skill to record Transactions using rules.		

2			Process and Special accounting treatment.	3.Develops understanding of preparing Trial balance.
	XI			4.Explains the necessity of providing depreciation and develop skill to compute depreciation by different methods
				5.Explains the method of recording bill transactions
3			Financial Statements of Sole proprietorship	1.Understands the meaning of financial statements
				2.Explains the items of revenue and capital
				3.Appreciates the need of adjustments in financial statements.
				4.Prepare the financial statements
				5.Develops the skill of calculating profit using statement of affairs method.
4			Computers in Accounting.	1.Understands the meaning of a computer, describe its components, capabilities and limitations
				2.Appreciates the need of use of computers for preparing accounting reports.
				3.Understands the benefit of computerized accounting.
				4.Explains the different types of accounting soft wares.
				5.Understands the automation of accounting process.

DAV PUBLIC SCHOOLS, ODISHA, ZONE-II

SPLIT-UP OF SYLLABUS 2021-22

CLASS: XI

SUB: Business Studies (054)

BOOKS PRESCRIBED: Business Studies (NCERT)

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
UNIT TEST-I		PART-A Foundations of Business		
	JUNE	1. NATURE AND PURPOSE OF BUSINESS	16	16
	JULY	2. FORM OF BUSINESS ORGANISATION	20	
UNIT TEST-II	AUGUST	3. PUBLIC, PRIVATE AND GLOBAL ENTERPRISES	16	14
		4. BUSINESS SERVICES	16	
		5. EMERGING MODES OF BUSINESS	12	10
	SEPTEMBER AND OCTOBER	REVISION AND HALF YEARLY EXAMINATION		
		6. SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS		
				Total: 80
		PART –B FINANCE AND TRADE		
	NOVEMBER	7. SOURCES OF BUSINESS FINANCE		20
		8. SMALL BUSINESS		
	DECEMBER	9. INTERNAL TRADE		20
PRE-ANNUAL	JANUARY	10. INTERNATIONAL BUSINESS		40
			Total	
		11. PROJECT WORK		20
	FEBRUARY	REVISION FOR ANNUAL EXAMINATION		
			Total:	100

QUESTION PATTERN (HALF-YEARLY)

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	1	20	20
SA – I	3	4	12
SA – II	4	6	24
LA – I	6	4	24
Total:		34	80

BLUE PRINT (HALF-YEARLY)

SL. NO	CONTENTS UNIT / FORMS OF QUESTIONS	VSA (1)	SA-1 (3)	SA-2 (4)	LA-1 (6)	TOTAL MARKS
1	NATURE AND PURPOSE OF BUSINESS	3	1	1	1	16
2	FORM OF BUSINESS ORGANISATION	6	-	2	1	20
3	PUBLIC,PRIVATE AND GLOBAL ENTERPRISES	3	1	1	1	16
4	BUSINESS SERVICES	5	1	2		16
5	EMERGING MODES OF BUSINESS	3	1	-	1	12
Total:		1(20)	3(4)	4(6)	6(4)	80

N.B.:

- Blue print of question papers for annual examination will be as per DAV CAE guidelines.
- There will be internal choice in questions of 1 mark (2 choice), 3marks (2 choice), 4 marks (2 choices) and 6 marks (2 choices).

SUBJECT : BUSINESS STUDIES (054)

SL No.	CLASS	NAME OF THE TEXT BOOK	CHAPTER/ LESSON	LEARNING OUTCOMES
1.	XI	BUSINESS STUDIES (PART – A) NCERT Text Book)	CH-1 : Evolution and Fundamentals of Business	The learners : 1. Identify and analyses the history of trade and commerce in India. Understand the meaning of business with special reference to economic and Non- economic activities. 2. Aware about all the characteristics of business. Profession and employment. 3. Describe the economic and social objectives of business. 4. Examine the role of profit in business. 5. Analyse the various business activities withthe proper description of ‘types of industries’, Concept and meaning of commerce , trade and auxiliaries to trade 6. Understand and examine the concept of risk as a special characteristics of business and its nature and causes .
2.	XI	BUSINESS STUDIES (PART – A) NCERT Text Book)	CH-2 : Forms of Business Organization	The learners : i. Analyse the different forms of business organisations 2. Identify and explain the concept, features, merits and limitations of <ul style="list-style-type: none"> • sole Proprietorship form of business • Partnership form of business • Hindu undivided family business • Co-operative form of business

				<ul style="list-style-type: none"> • Company form of business <p>3. Describe the concept, merits and limitations of private and public companies.</p> <p>4. Demonstrate the meaning of One man company, Distinguish between a private company and private company.</p> <p>5. High light the stages in the formation of a company. Discuss the important documents used in the various stages in the formation of a company.</p> <p>6. Describe the factors that influence the choice of a suitable form of business</p>
3.	XI	BUSINESS STUDIES (PART – A) NCERT Text Book)	CH-3 Public, Private and Global Enterprises	<p>The learners:</p> <p>1. Develop an understanding of public sector and private sector enterprise.</p> <p>2. Identify and explain the features, merits and limitations of different forms of public sector enterprises.</p> <p>3. Develop an understanding of multinational company, joint ventures and public private partnership by studying their meaning and features.</p>
4.	XI	BUSINESS STUDIES (PART – A) NCERT Text Book)	CH-4: Business services	<p>The learners</p> <p>1. Understand the meaning and types of business services.</p> <p>2. Discuss the meaning and types of business services Banking.</p> <p>3. Develop an understanding of different types of bank account. Develop an understanding of the different services provided by banks.</p> <p>4. Recall the concept of insurance understand the principles of insurance and different types of insurance should be discuss.</p> <p>5. Describe the utility of different telecom and postal services</p>
5.	XI	BUSINESS STUDIES (PART – A) NCERT Text Book)	CH-5: Emerging Modes of Business	<p>The learners</p> <p>1. Describe the meaning of e- business.</p> <p>2. Discuss the scope of e- business. Appreciate the benefits of e-business</p> <p>3. Distinguish e-business from traditional business.</p> <p>4. Understand the concept of Outsourcing.</p> <p>5. Examine the scope of Outsourcing, appreciate the need of Outsourcing. Discuss the meaning of BPO and KPO</p>
6.	XI	BUSINESS STUDIES (PART – A) (NCERT Text Book)	CH-6: Social Responsibility of Business and Business Ethics	<p>The learners</p> <p>1. Explain the concept of social responsibility.</p> <p>2. Examine the cases for social responsibility.</p> <p>3. Identify the social responsibility towards different interest groups.</p> <p>4. Appreciate the role of business in environment protection.</p> <p>5. State the concept of business ethics and Describe the elements of business ethics.</p>
7.	XI	BUSINESS STUDIES (PART – B) (NCERT Text Book)	CH-7 : Sources of Business Finance:	<p>The learners</p> <p>1. State the meaning, nature and importance of business finance.</p> <p>2. Classify the various sources of funds into owners' funds and explain the meaning of owners' funds.</p>

				<p>3. Understand the meaning of Global Depository receipts, American Depository Receipts and International Depository Receipts. State the meaning of borrowed funds.</p> <p>4. Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and inter corporate deposits.</p> <p>5. Distinguish between owners' funds and borrowed funds.</p>
8.	XI	BUSINESS STUDIES (PART – B) (NCERT Text Book)	CH-8:Small Business and Entrepreneurship Development	<p>The learners</p> <p>1. Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights. Understand the meaning of small business.</p> <p>2. Discuss the role of small business in India.</p> <p>3. Appreciate the various Government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural, backward area.</p>

9.	XI	BUSINESS STUDIES (PART – B) (NCERT Text Book)	CH-9 : Internal Trade	<p>The learners</p> <p>1.Explain the meaning and types of internal trade.</p> <p>2.Appreciatethe services of wholesalers and retailers.</p> <p>3.Describe the different types of retail trade.</p> <p>4.Highlight the distinctive features of departmental stores, Chain stores and mail order business..</p>
10.	XI	BUSINESS STUDIES (PART – B) (NCERT Text Book)	CH-10: International Trade	<p>The learners</p> <p>1.Understandthe concept of International Trade.</p> <p>2.Describe the scope of international trade to the nation and business firms.</p> <p>3.State the meaning and objectives of export trade.</p> <p>4.Explain the important steps involved in executing export trade.</p> <p>5.State the meaning and objectives of import trade.</p> <p>6.Develop an understanding of the various documents used in international trade.</p> <p>7.Identify the specimen of the various documents used in international trade.</p> <p>8.Highlight the importance of the documents needed in connection with international trade transaction s</p> <p>9.Explain the meaning of World Trade Organisation.</p> <p>Discuss the objective of World Trade Organisation in promoting international trade.</p>

DAV PUBLIC SCHOOLS, ODISHA, ZONE

SPLIT-UP OF SYLLABUS 2021-22

CLASS: XI

SUB: Banking (811)

BOOKS PRESCRIBED: Banking (NCERT)

	MONTH	CHAPTER/TOPICS TO BE TAUGHT	CHAPTERWISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
	JUNE	PART-A :Employability Skills		
		Unit1.Communication Skills....Contd.	10	10
JULY	Unit1.Communication Skills Unit2.Self-management Skills Unit3. Information and Communication Technology Skills			
UNIT TEST-I	AUGUST	PART-B :Vocational Skills		
		Unit1.Introduction	10	05
		Unit2. Banker & Customer....Contd.	15	10
	SEPTEMBER	Unit2. Banker & Customer.... Unit3.Employment of Bank Funds	25	20
		PROJECT WORK	40	
	OCTOBER	REVISION FOR HALF YEARLY EXAMINATION	Total: 100	
	NOVEMBER	PART-A :Employability Skills Unit 4.Entrepreneurial Skills		
Unit5. Green Skills				
UNIT TEST-II	DECEMBER	PART-B :Vocational Skills Unit4.Negotiable Instruments		15
PRE- ANNUA L	JANUARY	Project Work REVISION & PRE- ANNUAL EXAMINATION		40
ANNUA L	FEBRUARY	REVISION AND ANNUAL EXAMINATION		
TOTAL:				100

QUESTION PATTERN (HALF-YEARLY)

TYPE OF QUESTION (S)	MARK(S) PER QUESTION	TOTAL NO. O QUESTIONS	TOTAL MARKS
VSA	1	30	30
SA-I	2	6	12
SA-II	3	2	06
LA-I	4	3	12
	Total:	41	60

NB : PROJECT WORK TOPIC -- 40 Marks

TOTALMarks- 100

BLUE PRINT(HALF-YEARLY)

SL NO.	CONTENTS UNIT/FORMS OF QUESTIONS	VSA (1)	SA-1 (2)	SA-2 (3)	LA-1 (4)	TOTAL MARKS
1	Part-A Employability Skills	4	3			10
2	Part-B Unit1.Introduction	8	1			10
3	Unit2. Banker & Customer	6	1	1	1	15
4	Unit3.Employment of Bank Funds	12	1	1	2	25
	Total :	1(30)=30	2(6)=12	3(2)=06	4(3)=12	60

QUESTION PATTERN (ANNUAL)

TYPE OF QUESTION (S)	MARKS(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	1	30	30
SA-I	2	6	12
SA-II	3	2	06
LA-I	4	3	12
	TOTAL:	41	60

NB : PROJECT WORK TOPIC -- 40 Marks

TOTAL- 100 Marks

N.B: Blue Print of Question Papers for Annual Examination will be as per DAV CAE guidelines.

SPLIT UP OF SYLLABUS 21-22

CLASS-XI SUB- MASS MEDIA STUDIES

BOOK PRESCRIBED: Mass Media Studies [CBSE]

	MONTH	CHAPTERS/LESSONS TO BE TAUGHT	DISTRIBUTION OF MARKS FOR HALF YEARLY, PRE- ANNUAL & ANNUAL EXAM.
	JUNE	Part-A Skills Unit-1: Communication Skills Unit-2:Self-management Skills	Theory 70 marks Practical 30 marks Total Marks 100 marks
	JULY	Part-B Skills Unit-1: Selling/Marketing/ Exhibiting A Product through Advertising Unit 2: Introduction to the Production Process	Part C Practical Work Practical Examination 15 marks Viva Voce 05marks Total 20marks
UNIT TEST-1	AUG	Part-A Skills Unit 3: Information and Communication Technology Skills	Part D Project Work/Field Visit Practical File/Student Portfolio 10 marks Total 10 marks
	SEPT.	Part-A Skills Unit 4: Entrepreneurial Skills – IV Part-B Skills Unit 3: New Media Revision Half Yearly Examination	

	OCT.	Part-A Skills Unit 5: Green Skills	
	NOV.	Part-B Skills Unit 4: Creative Contributions of the Key People	
UNIT TEST-II	DEC.	Unit 4: Creative Contributions of the Key People-Continued	
	JAN.	Portfolio Preparation Revision and Pre- Annual	
	FEB	Revision for Annual	

MASS MEDIA STUDIES (SUB.CODE-835)

SESSION 2021-2022, BLUE PRINT

Total Marks: 100 (Theory-70 + Practical-30)

Part A

Employability Skills

Unit 1: Communication Skills

Unit 2: Self-Management Skills

Unit 3: ICT Skills

Unit 4: Entrepreneurial Skills

Unit 5: Green Skills

Total : --- 10 Marks

Part B

Subject Specific Skills

Unit 1: Selling / Marketing/ /Exhibiting A Product

through Advertising --- 20 Marks

Unit 2: Introduction to the Production Process --- 20 Marks

Unit 3: New Media --- 10 Marks

Unit 4: Creative Contributions of the Key People --- 10 Marks

Part C

Practical Work

Practical Examination --- 15 Marks

Viva Voce --- 05 Marks

Part D

Project Work/ Field Visit

Practical File/ Student Portfolio --- 10 Marks

GRAND TOTAL --- **100 Marks**

CLASS-XI
SUBJECT- HISTORY (027)
BOOK PRESCRIBED:-THEMES IN WORLD HISTORY, NCERT

	MONTH	CHAPTERS/TOPIC TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
UNIT - 1	JUNE	Introduction of world History	38	10
	JULY	Ch-2 Write and citylife Ch-3 An empire across three continent		
	AUGUST	Ch-4 The central Islamic lands Ch-6 The three orders	37	25
	SEPTEMBER	Half yearly examination Ch-7 Changing cultural traditions (Cont)	Total: 80 Project: 20 G. Total: 100	TOTAL- 80 PROJECT-20 G.TOTAL-100
	OCTOBER	Ch-7 Changing cultural traditions		
	NOVEMBER	Ch-9 The Industrial Revolution(Introd)		
UNIT - 2	DECEMBER	Ch-9 The Industrial Revolution Ch-10 Displacing Indegenous people		
	JANUARY	Ch-11 Path of Modernisation (History of Japan & China) Map Work(Unit 1 to 11)		
		PRE-ANNUAL EXAMINATION		
	FEBRUARY	ANNUAL EXAMINATION		
QUESTION PATTERN FOR HALF YEARLY & ANNUAL EXAMINATION		OTQ	1 x 15	15
		SB	3 x 3	09
		SA	3 x 4	12
		LA	8 x 3	24
		EXTRACT	5 x 3	15
		MAP	05	05

PROJECT WORK

Allocation of Marks (20) The marks will be allocated under the following heads:

1	Project Synopsis	2 Marks
2	Data/Statistical analysis/Map work	3 Marks
3	Visual/overall presentation	5 Marks
4	Analysis/explanation and	5 Marks
5	Bibliography	1 Marks
6	Viva	4 Marks
	TOTAL	20 Marks

CLASS: XI

SUB: Geography (029)

**BOOKS PRESCRIBED: I. FNDAMENTALS OF PHYSICAL GEOGRAPHY(NCERT)
II. INDIA-PHYSICAL ENVIRONMENT (NCERT)
III. PRACTICAL WORK IN GEOGRAPHY (NCERT)**

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
UNIT TEST-I		BOOK-INDIA PHYSICAL ENVIRONMENT Ch-1 India-Location Ch-2 Structure and Physiography* Ch-3.Drainage system.	30	30
	July To September	Ch-4 Climate* Ch-5 Natural Vegetation Ch-6 Soils Ch-7 Natural Hazards and Disasters*		
		Map-Location and labelling on the outline map of India	5	5
		BOOK-FUNDAMENTALS OF PHYSICAL GEOGRAPHY Ch.- 1. Geography as a discipline. Ch- 2.The Origin and Evolution of the Earth* Ch. 3. Interior of Earth Ch. 4. Distribution of ocean and continents. Ch. 5. Minerals and Rock. Ch-6. Geomorphic Process.	30	
	Map & Diagrams **Map work on identification of features on World Map/Diagrams	5		
	Oct	Revision HALF YEARLY EXAMINATION	Total: 70	
	Nov	Ch-7.Landforms and their Evolution* Ch-8. Composition and structure of Atmosphere. Ch-9. Solar Radiation, Heat balance and Temp. Ch-10.Atmospheric Circulation and Weather Systems* Ch-11. Water in Atmosphere. Ch-12.World Climate and Climate Change*		30
UNIT TEST-II	Dec	Ch-13.Water (Oceans)* Ch- 14. Movement of Ocean water. Ch-15 Life on the Earth Ch-16 Biodiversity & Conservation		
		***Identification- outline map of the world		5
	Jan	Revision-PRE-ANNUAL EXAMINATION		
	Feb	ANNUAL EXAMINATION		Total-70

Learning Outcomes GEOGRAPHY

Sl. No	Class	Name of the Text Book	Chapter/ Lesson	Learning Outcomes
1	XI	NCERT- Fundamentals of Physical Geography	Chapter-1 Geography as a Discipline	The learner will be able to :
				<ul style="list-style-type: none"> * Explain nature of Geography *Describe Geography as an interdisciplinary subject *Establish relationship with other subjects *Identify branches of Geography *Appreciate importance of Physical Geography
2	XI		Chapter-2 The Origin and the Evolution of the Earth	The learner will be able to :
				<ul style="list-style-type: none"> *Identify theories related to origin of the earth and the universe *Distinguish between inner and outer planets *Describe evolution of the earth including lithosphere ,atmosphere and hydrosphere. *Relate origin of life on the earth with geological time scale
3	XI		Chapter-3 Interior of the Earth	The learner will be able to :
				<ul style="list-style-type: none"> *Identify direct and indirect sources of information about the earth *identify characteristics of earthquake waves
				<ul style="list-style-type: none"> *explain causes and effects of earthquake and preparedness during earthquake *interpret diagram showing structure of the earth and earthquake waves *describe types of volcanoes and volcanic landforms
4	XI		Chapter-4 Distribution of Oceans and Continents	The learner will be able to :
				<ul style="list-style-type: none"> *Explain drifting of continents *describe evidences in support of drifting of continental theory *explain the mechanism of drifting *give idea spread of ocean floor *explain the theory of plate tectonics
5	XI		Chapter-5 Minerals and Rocks	The learner will be able to :
			<ul style="list-style-type: none"> *identify minerals and rocks and their characteristics *distinguish between metallic and non-metallic minerals *explain type of rocks with their formations 	

6	XI		Chapter-6 Geomorphic Processes	The learner will be able to :
				<ul style="list-style-type: none"> * differentiate between endogenic and exogenic forces *identify agents of gradation *describe different types of weathering-significance *explain slow and rapid movement of earth materials *identify soil profiles formation of soils and its factors
7	XI		Chapter-7 Landforms and their Evolution	The learner will be able to : <ul style="list-style-type: none"> *Explain various landforms with their formation *Describe the works of various natural agents *Explain the functions of natural agents like rivers,glaciers,winds, sea waves and underground water
8	XI		Chapter-8 Composition and Structure of Atmosphere	The learner will be able to : <ul style="list-style-type: none"> *Explains constituents of atmosphere-gases present in the atmosphere *Describes different layers of atmosphere *interprets diagram showing the layers of atmosphere.
9	XI		Chapter-9 Solar Radiation, Heat Balance and Temperatre	The learner will be able to :
				*explains insolation and terrestrial radiation
				*describes variation of temperatre in different parts of earth
				*tells the mechanism of heating and cooling of atmosphere
				*describes the heat budget- balance between insolation and terrestrial radiation
				*explains the factors controlling the temperatre on the earth
10	XI		Chapter-10 Atmospheric Circulation and Weather Systems	The learner will be able to :
				*describe atmospheric pressure
				*explain the vertical and horizontal distribution of pressure
				*understand about the forces affecting velocity and direction of winds
				*interpret diagram showing permanent pressure belts and wind systems of the world
				*explain warm and cold air masses
				*describe the causes and effects of tropical and temperate cyclone

11	XI		Chapter-11 Water in the Atmosphere	<p>The learner will be able to:</p> <ul style="list-style-type: none"> *explain absolute and Relative Humidity * Understand about the processes involve in circulation of moisture in the atmosphere. *explain different forms of condensation *describe cloud formation and types of rainfall
12	XI		Chapter-12 World Climate and Climate Change	<p>The learner will be able to :</p> <ul style="list-style-type: none"> *explain Koppen's scheme of classification of climate *understand the causes of climate change *understand the causes and effects of global warming
13	XI		Chapter-13 Water(Oceans)	<p>The learner will be able to :</p> <ul style="list-style-type: none"> *explain hydrological cycle and the processes involve in it *describe the relief of an ocean floor with divisions *tells about temperature distribution and factors that affect it in the ocean *explain salinity of ocean water and its distribution
14	XI		Chapter-14 Movements of Ocean Water	<p>The learner will be able to :</p> <ul style="list-style-type: none"> *explain different types of movement of ocean water * Know the causes and types of waves,tides and ocean currents * Know the effects of tides and ocean currents
15	XI		Chapter-15 Life on the Earth	<p>The learner will be able to :</p> <ul style="list-style-type: none"> *explain different types of ecosystems * Understand the strcture and functions of ecosystems *describe the measures to maintain ecological balance
16	XI		Chapter-16 Biodiversity and Conservation	<p>The learner will be able to :</p> <ul style="list-style-type: none"> *explain the importance of biodiversity *role of biodiversity in our life *different species of pants and animas and their conservation
17	XI	NCERT-India-Physical Environment	Chapter-1 India-Location	<p>The learner will be able to :</p> <ul style="list-style-type: none"> *locate places, states, union territories on the map of India *describe important terms in Geography such as standard meridian, tropic of cancer, subcontinent, passes, sea ports etc. *appreciate political diversity *compare and contrast different states/UTs of India *explain interrelationship between sea route and sea ports in India for trade and communication since historical times *differentiate between local time and standard time

18	XI		Chapter-2 Structure and Physiographic	*appreciate physical diversity of India
				The learner will be able to : *compare and contrasts the physical features of India *understands the formation of different physiological divisions of India * know location of important places in different physical division
19	XI		Chapter-3 Drainage System	The learner will be able to : *explain the origin and flow of important rivers of India *Understand about the drainage patterns *distinguish between watershed and drainage basin *compare and contrasts between the Himalayan rivers and Peninsular rivers *explain the advantages of interlinking of rivers
20	XI		Chapter-4 Climate	The learner will be able to : *explain unity and diversity of monsoon climate *describe the factors affecting the climate of India * know mechanism of monsoon in India *describe the branches of monsoon * understand the characteristic of monsoon *explain economic significance of monsoon *identify rainfall and climatic regions of India
21	XI		Chapter-5 Natural Vegetation	The learner will be able to : *describe the types of forests in different parts of India *distinguish between forest area and forest cover *appreciate importance of forest and wildlife and its conservation
22	XI		Chapter-6 Soils	The learner will be able to : *identify different types of soils and their characteristics *describe soil erosion and steps for its conservation
23	XI		Chapter-7 Natural Hazards and Disasters	The learner will be able to : *identify different hazards and disasters and the areas *distinguish between hazards and disasters *know preparedness during disasters *explain what to do before,during and after the disasters

कक्षा - ग्यारहवीं (XI)

विषय -हिंदी (आधार / केन्द्रिक) ,कोड - (302)

Books Prescribed : 1. आरोह - भाग -१

2 . वितान - भाग -१

3 . अभिव्यक्ति और माध्यम (कामकाजी हिंदी और रचनात्मक लेखन)

	Month	Chapters / Topics to be taught
UNIT TEST-I	JUNE	१. नमक का दारोगा, कबीर, निबंध लेखन, पत्र- लेखन
	JULY	मियाँ नसीरुद्दीन, मीराबाई, अप्पू के साथ ढाई साल, भारतीय महिलाओं में बेजोड़ - लता मंगेशकर, प्रिंट माध्यम , समाचार और सम्पादकीय , पत्रकारिता
	AUGUST	विदाई संभाषण, पथिक, वे आँखें, इन्टरनेट, समाचार लेखन, फीचर लेखन, पत्र लेखन (कार्यालयी पत्र)
	SEPTEMBER	Revision for Half Yearly Examination.
UNIT TEST-II	OCTOBER	गलता लोहा , स्पीति में बारिश, घर की याद, राजस्थान की रजत बूँदें, विशेष लेखन
	NOVEMBER	रजनी, जामुन का पेड़, चंपाकाले-काले अक्षर नहीं चीन्हती, गजल , सम्पादन, सम्पादकीय, रिपोर्ट, आलेख
PRE-ANNUAL	DECEMBER	भारतमाता, आत्मा का ताप, अक्का महादेवी, सबसे खतरनाक, आओ मिलकर बचाएं
	JANUARY	आलो-अंधारी, निबंध लेखन, पत्र लेखन, फीचर लेखन
	FEBRUARY	REVISION FOR ANNUAL EXAMINATION

MARK DISTRIBUTION FOR HYE AND ANNUAL EXAMINATION(2021- 22)

कक्षा - ग्यारहवीं (XI)

संख्या	प्रश्नों के प्रकार	कुल अंक
01	खंड - क अपठित गद्यांश बोध	10
02	अपठित काव्यांश बोध	5
03	खंड ख निबंध (विकल्प सहित)	5
04	कार्यालयी पत्र(विकल्प सहित)	5
05	अभिव्यक्ति और माध्यम (अति लघुत्तर प्रश्न)	5
06	फीचर लेखन रिपोर्ट , आलेख (विकल्प सहित)	5

07	खंड ग दो काव्यांशों में से किसी एक काव्यांश पर अर्थ ग्रहण से सम्बंधित तीन प्रश्न	6
08	एक काव्यांश के सौंदर्य बोध पर तीन में से दो प्रश्न	4
09	कविताओं की विषय वस्तुपर आधारित तीन में से दो लघु उत्तरात्मक प्रश्न	5
	गद्य भाग	
10	गद्यांश पर आधारित अर्थ ग्रहण से सम्बंधित चार प्रश्न	6
11	पाठों की विषय वस्तुपर आधारित चार में से तीन बोधात्मक प्रश्न	6
	वितान भाग -१	
12	पाठों के विषय वस्तुपर आधारित दो में से एक प्रश्न	9
13	विषय वस्तुपर आधारित तीन में से दो निबंधात्मक प्रश्न	9
	मौखिक अभिव्यक्ति एवं परियोजना कार्य	
क	खंड घ श्रवण तथा वाचन -(5+5)	10
ख	परियोजना कार्य	10
	TOTAL MARKS	100
N.B	निम्नलिखित पाठों से प्रश्न नहीं पूछे जाएंगे आरोह (भाग-1)* अप्पू के साथ ढाई साल <ul style="list-style-type: none"> • आत्मा का ताप • पथिक 	

LEARNING OUT-COME CLASS – XI

SUBJECT – HINDI आरोह भाग -2

SL.NO	TOPIC/CHAPTERS	CATEGORY	LEARNING OUT COME
1	आत्मपरिचय	(कविता)	व्यक्ति दूसरों को जानने के अपेक्षा स्वयं को जानना जरूरी मनुष्य को सामाजिकता का निर्वाह करते हुए व्यावहारिक बनाना
2	पतंग	(कविता)	बच्चों को सपना देखने के लिए प्रेरित करना आसमान की ऊँचाइयों और उसके पार जाने का लक्ष रखना ,
3 (क)	कविता के बहाने	(कविता)	कविता की व्यापकता का प्रदर्शन करना कविता एक यात्रा है जो कण कण से लेकर जीव मात्र तक - इसकी जानकारी देना -: व्याप्त है
3(ख)	बात सीधी थी पर	(कविता)	सीधी सादी बातों द्वारा प्रभाव उत्पन्न करना- घुमा फिराकर बातें करने की शैली में उलझने के बजाय- सपाट शब्दों का प्रयोग करना सीखना

4	कैमरे में बंद अपाहिज	(कविता)	समाज व मीडिया की संवेदनहीनता से बच्चों को परिचित करवाना
			भावनात्मक शोषण कर रहे मीडिया और समाज का सामना करना
5	सहर्ष स्वीकार है	(कविता)	मानव मात्र में परमात्मा की उपस्थिति को स्वीकारना
			ईश्वरीय नियमों से बाहर निकलने को अहंकार से मुक्त होने की सलाह
6	उषा	(कविता)	प्रकृति से तादात्म्य का भाव उत्पन्न करना
			ग्राम्य परिवेश के प्रति विद्यार्थियों को आकृष्ट करना
8	कवितावली	(कविता)	प्रभु श्रीराम के प्रति प्रेम भाव जगाना
			लोकमंगल की साधना को समझना
9	रुबाइयाँ गजल,	(कविता)	प्रकृति का मानवीकरण कर आनंद प्राप्त करने में सक्षम होना
			लोकभाषा लोकपर्व मनाकर वात्सल्य भाव उत्पन्न करना , सिखाना
10	छोटा मेरा खेत	(कविता)	कविता और कृषि में समानता को समझाना
			किसान पेट की भूख को मिटाती है और कविता आत्मा की भूख को मिटाती है इस तत्व को समझना ।
11	भक्तिन	गद्य	सेविका के संघर्षपूर्ण जीवन की मार्मिकता का परिप्रकाश करना
			स्त्री अस्मिता के संघर्षपूर्ण जीवन शैली से परिचित होना-
12	बाज़ार दर्शन	गद्य	बाज़ार के चकाचौंध से बचने की सलाह देना
			आवश्यकतानुसार खरीददारी करने की कला सिखाना
13	काले मेघा पानी दे	गद्य	विज्ञान और विश्वास के द्वंद्व से बचने की कला सिखाना
			विज्ञान और विश्वास से ही प्रकृति तथा मानव जाति के कल्याण होने की बात से परिचित कराना
14	पहलवान की ढोलक	गद्य	समाज में लोक कलाओं के अप्रासंगिक प्रक्रिया से छात्रों को यथार्थ का बोध कराना ।
			पुरानी व्यवस्था में परिवर्तन भुखमरी की स्थिति का कारण बन जाने की बात का वर्णन ।
15	चार्ली चैप्लिन यानी हम सब	गद्य	बड़े कलाकार चार्ली चैप्लिन के भीतर छिपे साधारण इंसान से रूबरू कराते हुए उनके व्यक्तित्व में करुणा एवं हास्य के सामंजस्य का बोध कराना

			व्यक्ति के वाह्य एवं आंतरिक दोनों पहलू से बच्चों को परिचित करना
16	नमक	गद्य	भारत - पाक विभाजन के समय की मार्मिकता का बोध कराना
			अपने परदेश की प्रचलित धारणाओं से छात्रों को-देश , पराये - अवगत कराना
17	शिरीष के फूल	गद्य	व्यक्ति को शिरीष के फूल के भांति स्थिर धैर्यवान और , कर्तव्यशील बने जहने के लिए प्रेरित कराना
			साहित्य समाज व राजनीति में पुरानी व नई पीढ़ी के अंतरों , की और संकेत कराना
18	श्रम विभाजन और जाति - प्रथा	गद्य	डॉ भीमराव आम्बेदकर सदैव जातिगत भेदभाव का विरोध . एवं उसे जड़ से मिटनेकी इच्छा को प्रकट कराना
			समानता स्वतंत्रता एवं बंधुता जैसे तीन तत्वों का वर्णन , कराना

वितान भाग 2 -

1	सिल्वर वैडिंग	कहानी	प्राचीन रूढ़िवादी चिंतन एवं आधुनिकता की ओर बढ़ते समाज का अंतर्द्वंद्व को प्रमाणित करना
			सामाजिक विधि नियम तथा हृदय की संवेदनशीलता के बिच समन्वय स्थापित करना सिखाना
2	जूझ	कहानी	पारिवारिक बाधाओं के बीच भी प्रगति संभव है इस - बात का ज्ञान कराना
			एक गरीब किशोरी के जीवन का मार्मिक ,संवेदनशील , मध्यवर्गीय परिवारके जीवनशैली - परिवेश में भी निम्न को अपनाने की कला सिखाना
3	अतीत में दबे पाँव	यात्रा वृत्तांत	ऐतिहासिक सिंधु घाटी की सभ्यता से परिचित कराना
			यात्रा वृत्तांत तथा रिपोर्ट लेखन शैली से बच्चों को परिचित कराना
4	डायरी के पन्ने	संस्मरण	आतंकवाद के दर्दनाक अध्याय का ज्ञान करा कर उससे बचने की सलाह देना
			द्वितीय विश्व युद्ध की भयावहता को स्पष्ट करना

SPLIT-UP OF SYLLABUS 2021-22

CLASS – XI

SUB : PAINTING (Code – 049)

Book Prescribed : HISTORY OF INDIAN ART (Full Marks Publication)

TEST/ EXAM	MONTH	CHAPTER / TOPIC TO BE TAUGHT	MARK DIST- FOR HALF YEARLY EXAMINATION	MARK DIST-FOR PRE BOARD/ANNUAL EXAMINATION
UNIT TEST-I	JUNE	1. Art - An Introduction 2. Art and the Culture	06	05
	JULY	3. Origin and development of different forms of Fine Arts in India 4. Prehistoric Rock Paintings		
	AUGUST	5. Art of Indus Valley	10	05
		6. The Art during Mauryan, Shunga, Kushana and Gupta Periods 7. The Art of Ajanta Caves	14	10
HALF YEARLY EXAMINATION	SEPTEMBER	REVISION FOR HALF YEARLY EXAMINATION	Total – 30	
	OCTOBER	8. Artistic Aspects of Indian temple Sculptures		
UNIT TEST-II	NOVEMBER	9. Indian Bronze sculptures		10
	DECEMBER	10. Some Artistic Aspects of Indo- Islamic Architecture		
PRE ANNUAL EXAMINATION	JANUARY	REVISION FOR PRE-ANNUAL EXAMINATION		
	FEBRUARY	REVISION FOR ANNUAL EXAMINATION		
				Total - 30

MARKING SCHEME FOR THEORY

	Mark(s)	No. of Questions	Total Marks	Type of Questions
(i)	1	6	6	(Objective type)
(ii)	2	3	6	(Ans about 30 words)
(iii)	3	2	6	(Ans about 100 words)
(iv)	6	1	6	(Ans about 200 words)
(v)	6	1	6	(Ans about 200 words)

PAINTING (PRACTICAL)

Max. Marks: 70

Time : 6 hrs (3+3)

UNIT		MARKS
1	Nature and Object Study	25
2	Painting Composition	25
3	Portfolio Assessment	20
		70

Marking Scheme:

Unit I – Nature and Object study 25 marks

Study of two or three natural and geometric forms in pencil with light and shade from a fixed point of view. Natural forms like plants, vegetables, fruits and flowers etc., are to be used. Geometrical forms of objects like cubes, cones, prisms, cylinders and spheres should be used

Unit II – Painting Composition 25 marks

Simple exercises of basic design in variation of geometric and rhythmic shapes in geometrical and decorative designs and colours to understand designs as organised visual arrangements.

Unit III - Portfolio Assessment 20 marks

- (i) Record of the entire year's performance from sketch to finished product **(10)**
- (ii) Five selected nature and object study exercises in any media done during this session **(05)**
- (iii) Three selected painting compositions done during this year **(03)**
- (iv) Two selected works based on any Indian Folk Art (Painting) **(02)**

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10 Principles of ARYA SAMAJ

With Eternal Truths

1. God is the primary source of all true knowledge and of all that can be known through it.
2. God is Existent, Intelligent and Blissful. He is Formless, Almighty, Just Merciful, Unborn, Infinite, Unchangeable, Beginningless, Incomparable, Immortal, Fearless, Eternal, Holy and the Maker of the Universe. To Him alone worship is due.
3. The Vedas are the scriptures of true knowledge. It is the duty of all Aryas to read them, hear them being read and recite them to others.
4. We should always be ready to accept truth and give up untruth.
5. All actions should be performed in conformity with Dharma, that is, after due consideration of right and wrong.
6. The primary aim of the Arya Samaj is to do good for all, that is, promote their physical, spiritual and social well being.
7. We should treat all people with love, fairness and due regards for their merit.
8. We should aim at dispelling ignorance and promoting knowledge.
9. One should not only be content with one's own welfare, but should look for it in the welfare of others also.
10. One should regard oneself under restrictions to follow altruistic rulings of the society, while all should be free in following the rules of individual welfare.

