

Subject Wise Syllabus (Session: 2024-25) Class XII (Humanities)

First Unit Test

English	Flamingo	1. The Last Lesson 2. Lost Spring
	Vistas	1. The Third Level 2. The Tiger King 3. Journey to the end of the Earth
	Poetry	1. My Mother at Sixty Six
	C.W. Skills	1. Notice 2. Invitation (Formal and Informal; and Reply)
	Reading Skills	1. Unseen Passage (factual, descriptive, literary) 2. Unseen Passage (case-based)
Maths	Ch-1. Relations and Functions: Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions Ch-2. Inverse Trigonometric Functions: Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	
Economics	Indian Economic Development	Unit 6: Development Experience (1947-90) and Economic Reforms since 1991: A brief introduction of the state of Indian economy on the eve of independence. Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy, etc.), industry (IPR 1956: SSI- role and importance.) and foreign trade.
	Macro Economics	Unit 1: National Income and related aggregates: What is macro-economics? Some basic concepts: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation. Circular flow of income (two sector model) Methods of calculating National Income–Value Added or Product method, Expenditure method, Income method.
History	Part-I Ch -1: BRICKS, BEADS AND BONES <ul style="list-style-type: none"> The Harappan Civilization Ch -2: KINGS, FARMERS AND TOWNS: Early States and Economies (c. 600 BCE-600 CE) Part-II Ch- 5: THROUGH THE EYES OF TRAVELLERS Perceptions of society (c. tenth to seventeenth centuries) Part-III Ch -9: COLONIALISM AND THE COUNTRYSIDE: Exploring Official Archives	
Geography	Part A: Fundamentals of Human Geography Unit I: Human Geography Unit II: 2. The World Population Density Distribution and Growth Part B: India, People and Economy Unit I: Population Distribution Density Growth and Composition Part C: Geography Practical II 1. Data: Its Sources and Complication	
Pol. Science	Part A: Contemporary World Politics 1. The End of Bipolarity Disintegration of Soviet Union, Unipolar World, Middle East Crisis – Afghanistan, Gulf War, Democratic Politics and Democratization – CIS and the 21st Century (Arab Spring). 2. New Centres of Power Organizations: European Union, ASEAN, SAARC, BRICS. Nations: Russia, China,	

Pol. Science	Israel, India, Japan and South Korea. Part B: Politics in India since Independence 1. Challenges of Nation-Building Nation and Nation Building. Sardar Vallabh Bhai Patel and Integration of States. Nehru’s approach to nation-building; Legacy of partition: challenge of ‘refugee’ Resettlement, the Kashmir problem. Political conflicts over language. Linguistic Organisation of States. 2. Planned Development Changing nature of India’s Economic Development Planning Commission and Five Year Plans, National Development Council, NITI Aayog.	
I.P.	Unit 2: Database Query using SQL : Revision of database concepts and SQL commands covered in class XI Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING() /SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by. Working with two tables using equi-join	
Phy. Edu.	Unit I: Management of Sporting Events 1. Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) 2. Various Committees & their Responsibilities (pre; during & post) 3. Fixtures and their Procedures – Knock-Out (Bye & Seeding) & League (Staircase, Cyclic, Tabular method) and Combination tournaments. 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance 5. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity) Unit II: Children & Women in Sports 1. Exercise guidelines of WHO for different age groups. 2. Common postural deformities-knock knees, flat foot, round shoulders, Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures. 3. Women’s participation in Sports – Physical, Psychological, and social benefits. 4. Special consideration (menarche and menstrual dysfunction) 5. Female athlete triad (osteoporosis, amenorrhea, eating disorders).	
Max. Marks : 25		
Min. Marks : 08		Time : 1.30 Hours
Note for Exam. : Students will bring their next day’s examination books and notebooks		

Second Unit Test (+ First Unit Test)

English	Flamingo	3. Deep Water 4. The Rattrap
	Vistas	4. The Enemy
	Poetry	2. Keeping Quiet
	C.W. Skills	3. Letters (a) Application for a job with bio-data or resume (b) Letter to the Editor
	Reading Skills	1. Unseen Passage (factual, descriptive, literary) 2. Unseen Passage (case-based)

Subject Wise Syllabus (Session: 2024-25) Class XII (Humanities)

Maths	Ch-3. Matrices: Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices; Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries). Ch-4. Determinants: Determinant of a square matrix (up to 3 x 3 matrices), minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Ch-5. Continuity and Differentiability: Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, like $\sin^{-1}x$, $\cos^{-1}x$ and $\tan^{-1}x$, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives. Ch-6. Applications of Derivatives: Applications of derivatives: rate of change of bodies, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).	
Economics	Indian Economic Development	Economic reforms since 1991: Features and appraisals of liberalisation, globalisation and privatisation (LPG Policy); concepts of demonetization and GST. Rural development: Key issues – credit and marketing – role of cooperatives; agricultural diversification; alternative farming – organic farming.
	Macro Economics	Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost; Real and Nominal GDP. GDP Deflator, GDP and Welfare. Unit 2: Money and Banking: Money - meaning and functions, supply of money - Currency held by the public and net demand deposits held by commercial banks.
History	Part-I Ch-3: KINSHIP, CASTE AND CLASS Early Societies (C. 600 BCE-600 CE) Part-II Ch-6: BHAKTI –SUFU TRADITIONS: Changes in Religious Beliefs and Devotional Texts (c. eighth to eighteenth centuries) Part III: Ch 10: REBELS AND RAJ: 1857 Revolt and its Representations-	
Geography	Part A: Fundamentals of Human Geography Unit II : 3. Human Development Unit III : 4. Primary Activities Part B: India People and Economy Unit II : 2. Human Settlements Unit III : 3. Land Resources and Agriculture 4. Water Resources Part C: Geography Practical II	

	2. Data Processing
Pol. Science	Part A: Contemporary World Politics 3. Contemporary South Asia Conflicts and efforts for Peace Democratization in South Asia: Pakistan, Nepal, Bangladesh, Sri Lanka, Maldives. 4. United Nations and its Organizations Principal Organs, Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion. Part B: Politics in India since Independence 3. India's Foreign Policy Principles of Foreign Policy; India's Changing Relations with Other Nations: US, Russia, China, Israel; India's Relations with its Neighbours: Pakistan, Bangladesh, Bhutan, Nepal, Sri Lanka and Myanmar; India's Nuclear Programme. 4. Parties and Party System in India One Party Dominance, Bi-Party System, Multi-Party Coalition System.
I.P.	Unit 1: Data Handling using Pandas and Data Visualization: Data Handling using Pandas –I Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename, Head and Tail functions, indexing using labels, Boolean indexing; Importing/Exporting Data between CSV files and Data Frames.
Phy. Edu.	Unit III: Yoga as Preventive measure for Lifestyle Disease 1. Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama. 2. Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana, Paschimottanasana-a, Ardha-Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati. 3. Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasan-a, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana Matsyaasana, Anuloma-Viloma. 4. Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasan-a, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi- shodhanapranayam, Sitlipranayam. 5. Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasana, Urdhwahastootansana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Sarala Matsyendrasana, Bhujandgasana, Gomukhasana, Bhadrasana, Makarasana, Nadi-Shodhana pranayama. Unit IV: Physical Education and Sports for CWSN (Children with Special Needs - Divyang) 1. Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics) 2. Concept of Classification and Divisioning in Sports. 3. Concept of Inclusion in sports, its need, and Implementation;

Subject Wise Syllabus (Session: 2024-25) Class XII (Humanities)

4. Advantages of Physical Activities for children with special needs. 5. Strategies to make Physical Activities assessable for children with special needs.	
Max. Marks : 25	Min. Marks : 08
Time : 1.30 Hours	
Note for Exam. : Students will bring their next day's examination books and notebooks	

First Term Exam (+1st Unit + 2nd Unit)

	Flamingo	5. Indigo 6. Poets and Pancakes
	Vistas	5. On the Face of It
English	Poetry	3. A Thing of Beauty 4. A Roadside Stand
	C.W. Skills	4. Article 5. Report writing
	Reading Skills	1. Unseen Passage (factual, descriptive, literary) 2. Unseen Passage (case-based)
Maths	<p>Ch-7. Integrals: Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problem based on them.</p> $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}$ $\int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^2 + bx + c}} dx, \int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$ $\int \sqrt{ax^2 + bx + c} dx,$ <p>Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.</p> <p>Ch-8. Applications of the Integrals: Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only),</p> <p>Ch-9. Differential Equations: Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree.</p> <p>Solutions of linear differential equation of the type: $\frac{dy}{dx} + py = q$, where p and q are functions of x or constant, $\frac{dx}{dy} + px = q$, where p and q are functions of y or constant.</p>	
Economics	Indian Economic Development	Human Capital Formation: How people become resource; Role of human capital in economic development; Growth of Education Sector in India Employment: Growth and changes in workforce participation rate in Formal and informal sector, problems and policies.
	Macro Economics	Unit 2: Money and Banking: Money – meaning and functions, supply of money - Currency held by the public and net demand deposits held by commercial banks. Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank

Economics		Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement. Unit 3: Determination of Income and Employment: Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment. Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.
History		Part-I Ch-4: THINKERS, BELIEFS AND BUILDINGS Cultural Developments (c. 600 BCE - 600 CE) Part-II Ch-7: AN IMPERIAL CAPITAL: VIJAYANAGARA (c. fourteenth to sixteenth centuries)
Geography		Part A: Fundamentals of Human Geography Unit III : 5. Secondary Activities 6. Tertiary and Quaternary Activities Part B: India: People and Economy 5. Mineral and Energy Resources 6. Planning and Sustainable Development in Indian Context Part C: Geography Practical II 3. Graphical Representation of Data
Pol. Science		Part A: Contemporary World Politics 6. Environment and Natural Resources Environmental Movements, Global Warming and Climate Change, Conservation of Natural Resources. 7. Globalization Globalization: Meaning, Manifestation and Debates. Part B: Politics in India since Independence 5. Democratic Resurgence Jaya Prakash Narayan and Total Revolution, Ram Manohar Lohia and Socialism, Pandit Deendayal Upadhyaya and Integral Humanism, National Emergency, Democratic Upsurges – Participation of the Adults, Backwards and Youth.
I.P.		Data Visualization : Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram, Customizing plots: adding label, title, and legend in plots.
Phy.Edu.		Unit V: Sports & Nutrition 1. Concept of balanced diet and nutrition 2. Macro and Micro Nutrients: Food sources & functions 3. Nutritive & Non-Nutritive Components of Diet 4. Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths 5. Importance of Diet in Sports-Pre, During and Post competition Requirements Unit VI: Test & Measurement in Sports 1. Fitness Test – SAI Khelo India Fitness Test in school: Age group 5-8 years/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach

Subject Wise Syllabus (Session: 2024-25) Class XII (Humanities)

Phy.Edu.	flexibility test, Strength Test (Partial Abdominal Curl Up, Push-Ups for boys, Modified Push-Ups for girls). 2. Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise. 3. Computing Basal Metabolic Rate (BMR) 4. Rikli & Jones - Senior Citizen Fitness Test <input type="checkbox"/> Chair Stand Test for lower body strength <input type="checkbox"/> Arm Curl Test for upper body strength <input type="checkbox"/> Chair Sit & Reach Test for lower body flexibility <input type="checkbox"/> Back Scratch Test for upper body flexibility <input type="checkbox"/> Eight Foot Up & Go Test for agility <input type="checkbox"/> Six-Minute Walk Test for Aerobic Endurance 5. Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full-turn)		
Max. Marks : 50		Min. Marks : 17	Time : 3.00 Hours
Note for Exam. : Students will bring their next day's examination books and notebooks			
Second Term Exam. (+ 1st Unit + 2nd Unit + 1st Term)			
English	Flamingo	7. The Interview 8. Going Places	
	Vistas	6. Memories of Childhood	
	Poetry	5. Aunt Jennifer's Tigers	
	C.W. Skills	All topics	
	Reading Skills	1. Unseen Passage (factual, descriptive, literary) 2. Unseen Passage (case-based)	
		Project Work	
Maths	Ch-10. Vectors: Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, Properties and application of Scalar (dot) product of vectors. Vector (cross) product of vectors. Ch-11. Three - dimensional Geometry: Direction cosines and direction ratios of a line joining two points. Cartesian and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines. Ch-13. Probability: Conditional probability, multiplication theorem on probability. independent events, total probability, Baye's theorem, Random variable and its probability distribution, mean. Ch-12. Linear Programming: Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).		
Economics	Indian Economic Development	Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming. Unit 8: Development Experience of India: A comparison with neighbours: India and Pakistan, India and China. Issues: Economic growth, population, sectoral development and other Human Development Indicators.	
	Macro	Unit 4: Government Budget and the Economy Government budget -	

Economics	Economics	meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure. Measures of government deficit - revenue deficit, fiscal deficit, primary deficit: their meaning, Balance surplus and deficit budget. Unit 5: Balance of Payments: Balance of payments account - meaning and components; balance of payments deficit and surplus. Foreign exchange rate-meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market, Merits and demerits of flexible and fixed exchange rate. Managed Floating exchange rate system.
History	Part-II Ch-8: PEASANTS, ZAMINDARS AND THE STATE: Agrarian Society and the Mughal Empire (c. sixteenth-seventeenth centuries) Part III: Ch-11: MAHATMA GANDHI AND THE NATIONAL MOVEMENT: Civil Disobedience and Beyond Ch-12: FRAMING THE CONSTITUTION: The Beginning of a New Era	
Geography	Part A: Fundamentals of Human Geography Unit III : 7. Transport, Communication and Trade. 8. International Trade Part B: India, People and Economy Unit IV 7. Transport and Communication 8. International Trade Unit V: 9. Geographical Perspective on Selected Issues and Problems Part C: Geography Practical II 4. Spatial Information Technology	
Pol. Science	Part A: Contemporary World Politics 5. Security in Contemporary World Security: Meaning and Type; Terrorism. Part B: Politics in India since Independence 6. Regional Aspirations Rise of regional parties. Punjab Crisis. The Kashmir Issue, Movements for Autonomy. 7. Indian Politics: Recent Trends and Development Era of Coalitions, National Front, United Front, United Progressive Alliance (UPA) – I & II, National Democratic Alliance (NDA) I, II, III & IV, Issues of Development and Governance.	

Subject Wise Syllabus (Session: 2024-25) Class XII (Humanities)

IP.	<p>Unit 3: Introduction to Computer Networks: Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies. Unit 4: Societal Impacts: Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.</p>
Phy.Edu.	<p>Unit VII: Physiology & Injuries in Sport 1. Physiological factors determining components of physical fitness 2. Effect of exercise on the Muscular System 3. Effect of exercise on the Cardio-Respiratory System 4. Physiological changes due to aging 5. Sports injuries: Classification (Soft Tissue Injuries -Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted) Unit VIII: Biomechanics and Sports 1. Newton's Law of Motion & its application in sports 2. Types of Levers and their application in Sports. 3. Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports 4. Friction & Sports 5. Projectile in Sports Unit IX: Psychology and Sports 1. Personality; its definition & types (Jung Classification & Big Five Theory) 2. Motivation, its type & techniques. 3. Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it 4. Meaning, Concept & Types of Aggressions in Sports 5. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk, Goal Setting Unit X: Training in Sports 1. Concept of Talent Identification and Talent Development in Sports 2. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle. 3. Types & Methods to Develop – Strength, Endurance, and Speed. 4. Types & Methods to Develop – Flexibility and Coordinative Ability. 5. Circuit Training - Introduction & its importance</p>
Max. Marks : 100 (Th: 70 + Pr. 30) Min. Marks : 33 Time : 3.00 Hours	
Note for Exam. : Students will bring their next day's examination books and notebooks	

Pre-Board Exam. (Whole Syllabus)

Max. Marks : 100 (Th: 70 + Pr. 30) Min. Marks : 33 Time : 3.00 Hours

SR.	SUBJECT	NAME OF THE BOOK(S)	PUBLISHER
1	History	HISTORY	NCERT
2	Geog.	GEOGRAPHY	NCERT
3	Geog.	GEOGRAPHY REFRESHER	FULL MARKS
4	Geog.	PRACTICAL WORK IN GEOGRAPHY PART II	NCERT
5	Geog.	GEOGRAPHY PRACTICAL BOOK	GOYAL BROTHER PRAKASHAN
6	POL. SC.	REFRESHER	NCERT
7	ECO.	INDIAN ECONOMIC DEVELOPMENT	V.K. PUBLICATIONS
8	ECO.	INTODUCTORY MACROECONOMICS	V.K. PUBLICATIONS
9	ECO.	INDIAN ECONOMIC DEVELOPMENT	NCERT
10	ECO.	INTRODUCTORY MACROECONOMICS	NCERT
11	IP	INFORMATICS PRACTICES	DHANPAT RAI & COMP.
12	IP	PRACTICAL FILE (LP.)	J.B. PUBLISHING HOUSE
13	ENG.	GUIDE - ENGLISH CORE	LAXMI Pub.
14	ENG.	FLAMINGO (ENG.)	NCERT
15	ENG.	VISTAS (ENG.)	NCERT
16	MATHS	MATHEMATICS EXEMPLAR	NCERT
17	MATHS	MATHEMATICS	NCERT
18	MATHS	MATHEMATICS LAB ACTIVITIES WITH RECORD BOOK	GOYAL BROTHERS
19	P.ED.	PHYSICAL EDUCATION	SARASWATI PUBLICATION

Instructions:-

- Value Education consists of Moral Values , Manners & Etiquettes.
- Value Education will be taught by the class teacher for 10 minutes in zero period every day.