

LOYOLA HIGH SCHOOL, PATNA-800010
SYLLABUS FOR CLASS-12 HUMANITIES(ARTS) (2026-2027)

ENGLISH			
MONTH	Units/Subunits/ Topics/ Chapters to be Covered	Details of Activity/ Practice al / Projects to be given	Unit Tests / Formative/ Tests/ Assignment
APRIL	Literature Flamingo 1. The Last Lesson (Prose) 2. My Mother at Sixty- Six (Poetry) Vistas 1. The Third Level Writing - Notice Writing and its types	1. Write a notice for your school notice- board based on the upcoming events. 2. Write a diary entry sharing your nostalgic experiences.	
MAY	Literature - Flamingo 1. The Lost Spring (Prose) Vistas The Tiger King (Prose) Writing: The letter to the Editor	1. Write an article on the state of Education system in Bihar for your school magazine. 2. Group discussion: on environmental hazards and human threats.	
JUNE	Literature-Flamingo 1. Deep Water (Prose) Vistas 1. Journey to the end of the Earth (Travelogue) Writing- Letter for Job Application	1. Read the autobiographies of prominent writers and share it's reviews in class.	Test 1: - APRIL & MAY (29-06-2026) (Flamingo) 1. The Last Lesson 2. My Mother at Sixty-Six 3. The Lost Spring (Vistas) 1. The Third Level 2. The Tiger King (Writing Section) Notice 1. Writing and its types 2. Letter to the Editor
JULY	Flamingo 1. The Rattrap (Prose) 2. Keeping Quiet (Poetry) Vistas 1. The Enemy Invitation Writing and Reply	1. Draft an invitation letter for your school function on A-4 size sheet and submit. 2. Write a review of some patriotic films.	
AUG	Flamingo 1. Indigo 2. Poets and Pancakes (Prose) 3. A Thing of Beauty (Poetry) Writing: Article writing	1. Students can prepare a PPT based on Indian National Movement. 2. Students can form groups and enact a scene from the given text	Test 2 (03-08-2026) Flamingo 1. Deep water (Prose) 2. Journey to the end of the Earth (Travelogue) 3. Keeping Quiet 4. The Rattrap 5. The Tiger King Writing section 1. Job Application 2. Invitation Writing and Reply
SEPT	Flamingo 1. The Interview (Prose) 2. A Roadside Stand (Poetry)	1. Write an article on the struggles of the street vendors.	SENT-UP EXAM: From- 08/09/2026 Literature -Flamingo 1. The Last Lesson (Prose) 2. My Mother at Sixty- Six (Poetry) 3. The Lost Spring (Prose) 4. Deep Water (Prose) 5. The Rattrap (Prose) 6. Keeping Quiet (Poetry) 7. Indigo 8. A Thing of Beauty Vistas 1. The Third Level (Prose) 2. The Tiger King (Prose) 3. Journey to the end of the Earth (Prose) 4. The Enemy (Prose) Writing Section Short-Notice Writing, Letter to the Editor, Letter for Job Application,

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			Invitation letter and reply. Article Writing ,report writing
OCT	Flamingo 1.Going Places (Prose) 2. Aunt Jennifer's Tigers (Poetry) Writing-Report Writing	1. Prepare a report on the recent occurrences or events happening in the society submit it as an assignment.	
NOV	Vistas 1. On the Face of it. 2. Memories of Childhood (Prose) Flamingo 1. Revision Writing Revision	1. Write a narrative or share an anecdote on any positive incident from your life.	
DEC	REVISION	PROJECT SUBMISSION From-10/12/2026	PRE BOARD -1 Entire syllabus
JAN	AISSCE (CBSE) Board's Practical	Conducting practicals ASL From-05/01/2027	PRE BOARD -2 Whole Syllabus

HISTORY

MONTH	Units/Subunits/ Topics/ Chapters to be Covered	Details of Activity /Practical/ Projects to be given	Unit Tests /Formative Tests/Assignment
APRIL	CH-1 Bricks, Beads and Bones The Harappan civilization 1. Beginnings. 2. Subsistence Strategies 3. Mohenjo-Daro a planned Urban Centre 4. Tracking Social Differences 5. Finding out about Craft Production 6. Strategies for procuring material 7. Seals, Scripts, Weight 8. Ancient Authority 9. The End of the Civilization 10. Discovering the Harappan Civilization 11. Problems of piecing together the Past CH-2 Kings, Farmers and Towns: Early states & Economy (C.600BCE-600CE) 1. Princep and Priyadasi 2. The Earliest States 3. An Early Empire: Mauryans 4. New Notions of Kingship 5. A changing Countryside 6. Towns and Trade 7. Back to basics: How are Inscriptions deciphered?	Map practice- Mature Harappan sites: Harappa, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar, Lothal, Mohenjodaro, Chanhudaro, KotDiji. Mahajanapada and cities: Vajji, Magadha, Kosala, Kuru, Panchala, Gandhara, Avanti, Rajgir, Ujjain, Taxila, Varanasi. Ashokan Pillar inscriptions – Sanchi, Topra, Meerut Pillar and Kaushambi. Kingdoms- of Cholas, Cheras and Pandyas. Important kingdoms and towns: Kushanas, Shakas, Satavahanas, Vakatakas, Guptas Cities/towns: Mathura, Kanauj, Puhar, Braghukachchha, Shravasti, Rajgir, Vaishali, Varanasi, Vidisha	
MAY	CH-3 Kinship, Caste and Class- Early Societies (C.600BCE -600CE) 1. The critical edition of the Mahabharata 2. Kinship and marriage: Many rules and varied practices 3. Social differences: Within and beyond the framework of Caste 4. Beyond birth Resources and Status 5. Explaining social differences: A Social Contract 6. Handing Texts, Historians, and the Mahabharata 7. A Dynamic Text	Allotment of final topic for project work.	11.05.2026 (Monday) : History Test – 01 Syllabus: CH-1 The Harappan civilization CH-2 Kings, Farmers and Towns: Early states & Economy
JUNE	CH-4 Thinkers, Beliefs and Buildings	Major Buddhist Sites:	

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	<p>Cultural Developments (C. 600 BCE-600 ce)</p> <ol style="list-style-type: none"> 1. A glimpse of Sanchi. 2. The background: Sacrifices and Debates 3. Beyond worldly pleasure, The message of Mahavira 4. The Buddha and the quest for Enlightenment 5. The teachings of the Buddha 6. Followers of the Buddha 7. Stupas 8. Discovering Amravati and Sanchi 9. Sculpture 10. New Religious Traditions 	<p>Nagarjunakonda, Sanchi, Amravati, Lumbini, Bharhut, Bodh Gaya, Ajanta</p>	
JULY	<p>CH-5 Through the Eyes of Travellers Perceptions of Society (C. 10th to 17th CE)</p> <ol style="list-style-type: none"> 1. Al-Biruni and the Kitab-Ul Hind 2. Ibn Battuta.s Rihla 3. Francois Bernier, A Doctor with a difference 4. Making sense of an alien world, Al- Biruni and the Sanskrit tradition 5. Ibn Battuta and the excitement of the unfamiliar 6. Bernier and the “Degenerate” East 7. Women, Slaves, Sati and Labourers <p>Ch-6 Bhakti-Sufi Traditions Changes in Religious beliefs and devotional tests (C. Eight to Eighteenth century)</p> <ol style="list-style-type: none"> 1. A Mosaic of Religious beliefs and practices 2. Poems of Prayers: Early traditions of Bhakti 3. The Virashaiva tradition in Karnataka 4. Religious ferment in North India 5. New Strands in the fabric Islamic traditions 6. The Growth of Sufism 7. The Chishti’s in Subcontinent 8. New devotional paths dialogue and dissent Northern India 9. Reconstructing Histories of religious traditions 		<p>27.07.2026 (Monday): History Test – 02 Syllabus: CH-3 Kinship, Caste and Class- Early Societies</p> <p>CH-4 Thinkers, Beliefs and Buildings</p> <p>CH-5 Through the Eyes of Travellers</p>
AUG	<p>CH-7 An Imperial Capital: Vijayanagar (C. Fourteenth to Sixteenth Century)</p> <ol style="list-style-type: none"> 1. The discovery of Hampi. 2. Rayas, Nayakas and Sultans 3. Vijayanagara The Capital and its Environs 4. The Royal Centre 5. The Sacred Centre 6. Plotting Palaces, Temples and Bazaars 7. Questions in search of answers <p>CH- 8 Peasants, Zamindars and the State Agrarian Society and the Mughal Empire (C. Sixteenth Seventeenth Centuries)</p> <ol style="list-style-type: none"> 1. Peasants and agricultural production 2. The village community 3. Women in agrarian society 4. Forests and Tribes 5. The Zamindars 6. Land revenue system 7. The flow of silver 8. The Ain-I-Akbari of Abul Fazal 	<p>South India- Bidar, Golconda, Bijapur, Vijayanagar, Chandragiri, Kanchipuram, Mysore, Thanjavur, Kolar, Tirunelveli</p> <p>Territories under Babur, Akbar and Aurangzeb: Delhi, Agra, Panipat, Amber, Ajmer, Lahore, Goa</p>	
SEPT	<p>CH- 9 Colonialism and the Countryside</p> <ol style="list-style-type: none"> 1. Case study of Bengal and Permanent Settlement 	<p>Collections and discussion of project data</p>	<p>Send UP Examination From 08/09/2026-21/09/2026</p>

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	2. Case study of Rajmahal Hills- The Struggles of Paharias and Santhals 3. The Case study of Bombay Deccan, Ryotwari System 4. The Deccan riots Commission		Syllabus: CH-1 TO CH-8
OCT	CH- 10 Rebels and the Raj the Revolt of 1857 and Its Representations 1. Pattern of the Rebellion 2. Leaders of Revolt 3. Rumours and Prophecies 4. Awadh in Revolt 5. What the Rebel wanted 6. The Azamgarh Proclamation 7. Repression Images of the Revolt	Territories/cities under British Control in 1857: Punjab, Sindh, Bombay, Madras Berar, Bengal, Bihar, Orissa, Surat, Calcutta, Patna, Allahabad Main centres of the Revolt of 1857: Delhi, Meerut, Jhansi, Lucknow, Kanpur, Azamgarh, Calcutta, Benaras, Gwalior, Jabalpur, Agra, Awadh	
NOV	CH-11 Mahatma Gandhi and the Nationalist Movement Civil Disobedience and Beyond 1. A Leader announces Himself 2. The making and unmaking of Non-Cooperation. 3. The Salt Satyagraha: A Case Study 4. Quit India 5. The last Heroic days 6. Knowing Gandhi CH-12 Framing the Constitution The Beginning of a New Era 1. A Tumultuous time 2. The vision of the Constitution 3. Defining Rights 4. The Power of States 5. The Language of the nation.	Important centres of the National Movement: Champaran, Kheda, Ahmedabad, Benaras, Amritsar, Chauri Chaura, Lahore, Bardoli, Dandi, Bombay (Quit India Resolution), Karachi Data analysis and interpretation for project work Monitoring the progress of Project work	
DEC	REVISION - Completion of left over Practicals and PROJECTS , PRE BOARD -1 -From-10/12/2026 [Complete Syllabus]		
JAN	AISSEE (CBSE) Board's Practical , PRE BOARD -2 -From-05/01/2027[Complete Syllabus]		

POLITICAL SCIENCE

MONTH	Units/Subunits/ Topics/ Chapters to be Covered	Details of Activity /Practical/ Projects to be given	Unit Tests /Formative Tests/Assignment
APRIL	Chap-1 The End of Bipolarity 1. The Soviet System 2. Gorbachev and the disintegration 3. Causes and Consequences of disintegration 4. Shock Therapy and its Consequences 5. New entities in World Politics 6. India's Relations with Russia and Other Post Communist countries	Oral detailed discussions Everyday questions and answers Group discussion – Causes and Consequences of disintegration	
MAY	Chap-2 Challenges of Nation Building 1. Introduction-Challenges for a new Nation 2. Partition – Displacement and Rehabilitation 3. Integration of Princely States – The Problems and the Government's approach 4. Reorganization of States	Discussion on Causes and Consequences of Partition Map Activity	

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	<p>Chap-3 Era of One Party Dominance 1.Introduction 2.Challenge of Building a democracy</p>		
JUNE	<p>3.Congress Domination in first three General Elections – nature of dominance, ideological coalition and management of factions 4.Emergence of opposition parties</p> <p>Chap-4 Contemporary Centres of Power 1.European Union</p>	<p>Group discussion – Recent changes in the electoral process Comparative Ananalysis- Ideology of Different Political Parties Maps Everyday Questions/Answers</p>	
JULY	<p>2.ASEAN 3.Rise of China as an Economic Power 4.Japan and South Korea as emerging Powers</p> <p>Chap-5 Contemporary South Asia 1.Military and Democracy in Pakistan and Bangladesh 2.Monarchy and Democracy in Nepal 3.Ethnic Conflict and Democracy in Nepal 4.India-Pakistan Conflicts 5.India and its neighbours – 6.China, Bangladesh, Srilanka, Maldives, Nepal and Russia</p>	<p>Comparative Study- Economic Growth of China, Japan and South Korea Inquiry based learning Map Activity Comparative Ananalysis- Political Systems of South Asian countries Discussion – Current Economic Crisis in Srilanka and Pakistan</p>	<p>13-07-2026 Test 01 1.The End of Bipolarity 2. Challenges of Nation Building</p>
AUG	<p>Chap-6 Politics of Planned Development 1.Political Contestations 2.Planning Commission 3.First Five Year Plans 4.Rapid Industrialization</p> <p>Chap-7 International Organisations 1.Meaning and Importance 2.Evolution of UN 3.Structure and Functions 4.Principal Organs of UN 5.Reforms of UN after cold war- its 6. Processes and Jurisdictions 7.India and UN Reforms 8.NGOs 9.Implications and Futures of International Organisations</p>	<p>Debates and Discussion over Five Year Plans Comparative Ananalysis-The Left and the Right Ideology Discussion and Debate- Necessary Reforms of UN Quiz</p>	<p>17-08-2026 Test 02 1. Contemp Centres o Power 2. Era of On Party Dominan</p>
SEPT	<p>Chap-8 Security in the Contemporary World 1.Meaning and Type of Security 2.Traditional Concept of Security 3.Non-traditional Notions of Security 4.New Sources of Threats 5.Cooperative Securities 6.India’s Security Strategy</p> <p>Chap-9 India’s External Relations 1.International Context</p>	<p>Discussion and Debates- New Sources of threat Comparative Ananalysis-Security Concerns of Different Countries Collaborative Concept Mapping – India’s initiatives and Policies towards security The Policy of Non Alignment Peace and Conflict with China</p>	<p>Send UP Examination FROM 08/09/2026 The End of Bipola Contemporary Centres of Power Contemporary So Asia International Organisations Challenges of Na Building Era of One Party Dominance Politica of Planne Development</p>

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	2.The Policy of Non Alignment 3.Peace and Conflict with China 4.India's Nuclear Policy	India's Nuclear Policy	
OCT	Chap-10 Environment and Natural Resources - 1.Environmental Concerns Global Commons 2.Common But Differentiated Responsibilities 3.India's Stand on Environmental Issues 4.Environmental Movements 5.Resource Geopolitics 6.Rights of Indigenous People Chap-11 Challenges to and Restoration of the Congress System 1.Lessons of Emergency 2.Politics after Emergency	1.Presentation – Environmental Issues 2.Debates and Discussion – Indigenous Communities of the World and their concerns 3.Congress System- Comparative Ananalysis of Political Succession 4.Group Discussion on Changing Electoral Performance of the Congress 5. Cartoon Interpretation 6. Map Activity	
NOV	3.Globalization 4.Concept, Causes and Consequences of Chap-12 Globalisation 1.India and globalisation 2.Resistance to Globalisation 3.India and resistance to Globalisation Chap-13 Regional Aspirations 1.Region and the Nation 2.Punjab 3.The NorthEast Chap-14 Recent Developments in Indian Politics	Group Discussion- Positive and Negative Impacts of globalisation Group Discussion in Demands of Autonomy in Different Parts of the Country Comparative Analysis on Government's Response to Regional Aspirations Comparative Ananalysis-Different Developments in Indian taking place in present scenario with that of twentieth century	
DEC	REVISION - Completion of left over Practicals and PROJECTS , PRE BOARD -1 From-10/12/2026		
JAN	AISSCE (CBSE) Board's Practical , PRE BOARD -2 From-05/01/2027		

ECONOMICS

MONTH	Units/Subunits/ Topics/ Chapters to be Covered	Details of Activity /Practical/ Projects to be given	Unit Tests /Formative Tests/Assignment
APRIL	Indian Economic development Development Experience (1947-1990) (a) Indian economy on the eve of Independence (b) Economic Planning - Indian Economy (1950-1990) (c) Features/Problems / Policies of Agriculture (institutional and technical reforms)/ Industry / Foreign trade.	Preparing detailed notes related various topics Flow chart for understanding the topics precisely Listing out the dates and factual information	
MAY	Indian Economic development Economic Reforms (a) Since 1991 - LPG Policies Liberation, Privatisation and Globalization Need,measures taken, critical appraisal (b)Human Capital Formation (c)Rural Development	Preparing detailed notes related various topics Flow chart for understanding the topics precisely Listing out the dates and factual information	Weekly test I-04/05/2026 Ch 1 Indian economy at the eve of independence Ch 2 Economic planning 1950 -90
JUNE	Basic Concepts of Macro		
JULY	Macro Economics (a)Circular flow of Income	Preparing detailed notes related to various topics Flow chart for understanding the	Weekly Test-2-20/07/2026 National Income

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	(b)National Income and Related Aggregate (c)Measurement of National Income	topics precisely Understanding the formulas and concepts of related national income aggregates Formula derivation related to product, income and expenditure method Numericals	
AUG	Indian Economic development: Demonetisation Macro Economics Money		
SEPT	Macro Economics Banking :Commercial Bank and Central Bank	Preparing detailed notes related to the various topics Flow charts for precisely understanding the topics Formulas and measures of money supply Learning the concept of money multiplier and credit creation by commercial banks. Tabulation Numericals	Send UP Examination FROM 08/09/2026 Sent up exam Indian economy at the eve of independence Economic planning 1950-90 Economic reforms -LPG Human capital formation Rural development Macro - National income
OCT	Macro Economics Government Budget Indian Economic development: (a)Employment (b)Environment and sustainable development (c) Comparative Economic development of India, Pakistan and China Project work for Boards	Preparing detailed notes related various topics Flow chart for understanding the topics precisely Listing out the dates and factual information	
NOV	Macro Economics (a)Aggregate demand & Related Concept (b)Income determination and multiplier (c)Excess & Deficient demand (d)Foreign Exchange Rate (e)Balance of Payment	Flow chart Formulas Numericals	
DEC	REVISION , Completion of leftover practical and projects , PRE BOARD -1- From-10/12/2026		
JAN	AISSCE (CBSE) Board's Practical , PRE BOARD -2-From-05/01/2027		

MATHEMATICS

APRIL	<p>Unit-II: Algebra 1. Matrices Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. 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). 2. Determinants Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors 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.</p>		
MAY	<p>UNIT I (relations and functions) Relations and functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and Onto functions. Inverse trigonometric functions: Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.</p>	<p>1. To verify that the relation R in the set L of all lines in a plane defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive. 2. To verify that the relation r in the set l of all lines in a plane, defined by $r = \{(l, m) : l \parallel m\}$ is an equivalence relation.</p>	

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JUNE	<p>Unit III-calculus Continuity and differentiability: Continuity and differentiability, chain rule, derivatives 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.</p>	<p>3. To demonstrate a function which is not one-one but is onto. 4. To demonstrate a function which is one-one but not onto.</p>	<p>First weekly test Monday, 18th May 2026 Syllabus : 1. determinant 2. Matrices 3. Relations and functions 4. Inverse trigonometric function</p>
JULY	<p>Applications of derivatives: Applications of derivatives: rate of change of quantities, 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). 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 problems based on them.</p> $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}},$ $\int \frac{dx}{ax^2 + bx + c}, \int \frac{px + q}{ax^2 + bx + c} dx.$ $\int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$ $\int \sqrt{ax^2 + bx + c} dx,$ $\int (px + q)\sqrt{ax^2 + bx + c} dx$	<p>5. to draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$). 6. To explore the principal value of the function $\sin^{-1} x$ using a unit circle.</p>	
AUG	<p>Indefinite Integral Continued Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals. APPLICATIONS OF THE INTEGRALS: Applications in finding the area under simple curves, especially lines, circles/ parabolas/ ellipses (in standard form only).</p>	<p>7. To sketch the graphs of a^x and $\log_a x$ $a > 0, a \neq 1$ and to examine that they are mirror images of each other.</p>	<p>Second Weekly Test Monday 24th August 2026 Syllabus : 1. Calculus Unit III 1. Differential calculus 2. Indefinite and Definite Integral</p>
SEPT	<p>UNIT V 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).</p>	<p>8. To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base e) of the number x.</p>	<p>Send UP Exam FROM - 08/09/2026 Unit-II: Algebra 1. Matrices 2. Determinants Unit i (relations and functions) Inverse trigonometric functions: Unit iii-calculus Continuity and differentiability: Applications of derivatives:</p>

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	<p>UNIT:IV VECTOR ALGEBRA: 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.</p>		<p>Integrals: Applications of the integrals:</p>
OCT	<p>THREE-DIMENSIONAL GEOMETRY: Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines.</p>	<p>9. To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.</p>	
NOV	<p>UNIT VI PROBABILITY: Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes theorem. DIFFERENTIAL EQUATIONS: Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables. Solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type $\frac{dy}{dx} + py = q$, where p and q are functions of x or constants. $\frac{dx}{dy} + px = q$, where p and q are functions of y or constants.</p>	<p>10. To verify that for a function f to be continuous at given point x_0, $\Delta y = f(x_0 + \Delta x) - f(x)$ is arbitrarily small provided Δx is sufficiently small.</p>	<p>Pre- Board Exam From: 30th Nov'26</p>
DEC	<p>REVISION - Completion of left over Practicals and PROJECTS, PRE BOARD -1</p>		
JAN	<p>AISSCE (CBSE) Board's Practical, PRE BOARD -2</p>		
INFORMATICS PRACTICES			
APRIL	<p>Unit 2: Database Query using SQL Math functions: POWER(), ROUND(), MOD() Text functions: UCASE() / UPPER(), LCASE() / LOWER(), MID() / SUBSTRING() / SUBSTR(), LENGTH(), LEFT(), RIGHT(), INSTR(), LTRIM(), RTRIM(), TRIM(). Date-Time Functions: NOW(), DATE(), MONTH(), MONTHNAME(), YEAR(), DAY(), DAYNAME().</p>	<p>Practice of topics and Practical programs. Activities as specified in NCERT Textbook. 1. Create a new database called XII_IP_2022. 2. Open / Select / Load a database called XII_IP_2022. 3. Create a exstudent table with the student id, name, and marks as attributes where the student id is the primary key. 4. Display table structure of student table.</p>	

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		<p>05 . Insert the details of three students in the above table.</p> <p>06.Display details of all students</p> <p>07. Delete the details of a student in the above table.</p> <p>8. Use the select command to get the details of the students with marks more than 480.</p> <p>9. Find the min, max, sum, and average of the marks in a student marks table.</p> <p>10. Create table customer (customer ID, customer Name, country) and store few records.</p> <p>11.Store few records in customer table.</p> <p>12.Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.</p> <p>13.Write a SQL query to order the (student ID, marks) table in descending order of the marks.</p>	
MAY	<p>Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (), using COUNT (*). Querying and manipulating data using- Group by, Having, and Order by clauses.</p>	<p>The practice of topics and Practical programs. Activities as specified in NCERT Textbook</p>	
JUNE	<p>Unit 1: Data Handling using Pandas and Data Visualization Introduction to Python libraries Pandas & Matplotlib. Data Structures in Pandas- Series: Creation of Series from ndarray, dictionary, scalar value, mathematical operations, Head and Tail functions, Selection, Indexing and Slicing.</p>	<p>The practice of topics and Practical programs and SQL.</p> <p>1.Write a program to generate a series of float numbers from 10.0 to 50.0 with an increment of 3.5 using user defined function.</p> <p>2.Write a program to generate a series of 10 numbers with a scalar value of 44 with user defined index 1-10.</p> <p>3.Create a panda's series of five items from a dictionary, display 2nd and 3rd item and then 1st and 4th item of series.</p> <p>4.Create a panda's series of five items from an array, display 2nd and 3rd item and then 1st and 4th item of the series.</p> <p>5.Create a data frame for examination results and display row labels, column labels data types of each column and the dimensions.</p> <p>6.Create the following DataFrame Sales containing year wise sales figures for five salespersons in INR. Use the years as column labels, and salesperson names as row .</p> <p>7.Consider above sales dataframe and write code to display the last two rows of Sales dataframe using different method.</p> <p>8.Consider sales dataframe and write code to display the first two columns of Sales dataframe using different methods.</p>	
JULY	<p>DataFrames: creation from the</p>	<p>9.Use above dataframe sales and</p>	<p>Monday Test 1</p>

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	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.	do the following: 1. Change the DataFrame Sales such that it becomes its transpose. 2. Display the sales made by all sales persons in the year 2018. 3. Display the sales made by Kapil and Mohini in the year 2019 and 2020. 4. Add data to Sales for salesman Nirali where the sales made are [221, 178, 165, 177, 210] in the years [2018, 2019, 2020, 2021] respectively. 10. Use above dataframe sales and do the following: 1. Delete the data for the year 2018 from the DataFrame Sales. 2. Delete the data for sales man Shikhar from the DataFrame Sales. 3. Change the name of the salesperson Kamini to Rani and Kapil to Anil. 4. Update the sale made by Mohini in 118 to 150 in 2018.	06/07/2026 Unit -1.
AUG	Data Visualization Purpose of plotting; drawing and saving the following Types of plots using Matplotlib lineplot, bargraph, and histogram. Customizing plots: adding labels, titles, and legend in plots.	The practice of topics and Practical questions on Data Visualization.	Monday Test -2 10/08/26 Unit -1,2
SEPT	Unit 3: Introduction to Computer Networks Introduction to networks, Types of networks: 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, the difference between 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, plug-ins, cookies.		Send UP Examination FROM 08/09/2026- 21/09/2026 Unit -1,2,4
OCT	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, cyberbullying, an overview of the Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.		
NOV	REVISION		
DEC	REVISION - Completion of left over Practicals and PROJECTS, PRE BOARD -1 From-10/12/2026		
JAN	AISSCE (CBSE) Board's Practical , PRE BOARD -2 From-05/01/2027		

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PHYSICAL EDUCATION		
MONTH	Units/Subunits/Topics/Chapters To be overed	
APRIL	Unit 1 Management of Sporting Events 1. Functions of Sports Events Management 2. Various Committees & their Responsibilities 3. Fixtures and their Procedures – 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance 5. Community sports Program Unit 2 Children & Women in Sports 1. Exercise guidelines of WHO for different age groups. 2. Common postural deformities	
MAY	3. Women’s participation in Sports 4. Special consideration 5. Female athlete triad Unit 3 Yoga as Preventive measure for Lifestyle Disease 1. Obesity 2. Diabetes 3. Asthma 4. Hypertension 5. Back Pain and Arthritis	Yoga Performance by students Monday Test-I 06/07/2026 Unit-I & II
JUNE	Unit 4 Physical Education and Sports for CWSN 1. Organization s promoting Disability Sports 2. Concept of Classification n and Divisioning in Sports. 3. Concept of Inclusion in sports, its need, and Implementation 4. Advantages of Physical Activities for children with special needs. 5. Strategies to make Physical Activities assessable for children with special needs.	
JULY	Unit 5 Sports & Nutrition 1. Concept of balanced diet and nutrition 2. Macro and Micro Nutrients: Food sources & functions 3. Nutritive & NonNutritive Componen ts of Diet 4. Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths 5. Importance of Diet in SportsPre, During and Post competition Requirements Unit 6 Test & Measurement in Sports 1. Fitness Test 2. Measurement of Cardio Vascular Fitness 3. Computing Basal Metabolic Rate (BMR) 4. Rikli & Jones 5. Johnsen – Methney Test of Motor Educability	Fitness test practice
AUG	Unit 7 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: Unit 8 Biomechanics and Sports 1. Newton’s Law of Motion & its application in sports 2. Types of Levers and their application in Sports. 3. Equilibrium 4. Friction & Sports 5. Projectile in Sports	Monday Test-II Unit- III & IV 10/08/2026
SEP	Unit 9 Psychology and Sports 1. Personality 2. Motivation, its type & techniques. 3. Exercise Adherence 4. Meaning, Concept & Types of Aggression s in Sports 5. Psychological Attributes in Sports	Send UP Examination FROM -08/09/2026 TO- 21/09/2026 (Unit I-V)
OCT	Unit 10 Training in Sports 1. Concept of Talent Identification and Talent Development in Sports 2. Introduction to Sports Training Cycle 3. Types & Methods to Develop	
NOV	4. Types & Methods to Develop – Flexibility and Coordinative Ability. 5. Circuit Training - Introduction & its importance	
DEC	Revision -Completion of left over , Practicals and Projects , Pre-Board-1	
JAN	AISSCE (CBSE) Boards Practical , Pre-Board-2	
FEB	AISSCE (CBSE) 2027	

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