



DELHI PUBLIC SCHOOL R. N. EXTENSION

(Under the aegis of the Delhi Public School Society, New Delhi)

MODULE WISE SYLLABUS (SESSION: 2024-25)

Class: XI	A, B, C, D,E	Subject: ENGLISH	Name of the Teacher: PANCHALI DEB	
Module/Duration: Term-I	No. of Days	Chapters and Topics to be taught	Learning Objectives	Subject Enrichment/ Art Integration
I APRIL	9 Days	Literature The Portrait of a Lady. A Photograph Reading Comprehension Writing Skills -Poster Making.	The students will develop sponsibility and sensitivity towards grandparents and other relations in the family. ● know the sacrifices and support given by the family. ● show concern for animals. ● develop an independent attitude in thought and actions. ●Understand that death is the inevitable.	Rummage through your photo album and select a photograph taken when vacationing with your family or during any celebration. Or Write a letter to your grandmother from your hostel telling her how you miss her and remember her love and care all through your childhood.
II MAY	20 Days	Literature The Summer of the Beautiful White Horse. We're not afraid to die. If We Can all be Together The Laburnum Top Writing Skills -Note Making: Introduction Grammar: Tenses	To enable the students to- ● read and understand between lines. ● understand the importance of societal norms and family values. ● realise that hazardous experience teaches us to face adverse situations.	A paper yacht is to be made and various parts of the yacht to be identified and labelled.
X SUMMER VACCATION 30 MAY 2024 – 30 JUNE 2024				
III JULY	22 Days	Literature- Discovering Tut: the Saga Continues. The Address Writing Skills: Debate Grammar: Sentence Reordering.	To enable the students to- ● learn about various Egyptian beliefs. ● analyse the situation and characters of the chapter. ● develop respect for the rituals and customs of others.	Write a Diary entry talking about how you felt on seeing your mother's belongings in a different setup.



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V AUGUST	19 days	Literature The Adventure Mother's Day (Play) Grammar - Clauses Writing Skills -Speech Writing.	To enable the students to- ● imbibe values like care and concern, empathy, compassion, respect for elders. ● understand, enjoy and appreciate plays. ● imbibe values like care and concern, empathy, compassion, respect for elders.	Role Play: will be done by the students. Or Talk: Is drama a good medium for conveying a social message?
2 September to 9 September 2024		REVISION FOR HALF YEARLY EXAMINATION	Term-I syllabus will be revised thoroughly along with doubt clearing. After the completion of syllabus by 30 th August 2024.	
10 September to 27 September 2024		HALF YEARLY EXAMINATION		
<u>Term II resumes: 30 September 2024</u>				
VI OCTOBER	18 Days	Literature: The Tale of the Melon City Childhood Grammar: Integrated Grammar	Students will be able to- ● Understand satire, learn to appreciate the poem and its literary devices ● appreciate the aesthetic writing.	Name different types of poems and explain how they are written. Eg. Sonnet, Haiku etc.
VII NOVEMBER	19 Days	Literature Father to Son Birth Writing Skills -Note Making with summary Grammar - Clauses	Students will be able to- ● Understand that a cordial relationship is a must between father and son. ● understand how the generation gap can create misunderstandings.	A flipbook drawing showing the distance growing between two people OR Write an article on the topic-'Medical-A Noble Profession'
VIII DECEMBER	19 Days	Literature Silk Road Writing Skills - Debate Grammar- Sentence Transformation	Students will be able to- ● know more about Tibet ● know why the silk road was called silk route. ● learn why this route was important for ancient trade	Write a travelogue as a first-person narrative describing your last vacation.



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Winter Break- 30th December 2024-to 7th January 2025

IX JANUARY	18 Days	Literature The Voice of the Rain Reading Comprehension Writing Skills -Note Making, Classified Advertisement, Debate and Speech Revision for Annual Examination.	Students will be able to- <ul style="list-style-type: none">● appreciate nature and the aesthetic writing.● identify the figures of speech.	Write a speech on 'Necessity of Water Cycle for the sustenance of life'.
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Syllabus Completion January 31st 2025

Revision- Annual Examination: 3rd February 2025 to 6th February 2025

Annual Examination: 7th February 2025 to 21st February 2025



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Class: XI		Subject: HISTORY		Name of the Subject Teacher: RITU PRIYA	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I) April (18 April 2024)	09	Ch-2 Writing and City life a) Mesopotamia and its Geography b) The Significance of Urbanism c) Movement of Goods into Cities d) The Development of writing e) The System of Writing, The uses of Writing f) The Urbanization in Southern Mesopotamia: Temples and Kings g) Life in the City, A Trading Town in a Pastoral Zone h) Cities in Mesopotamian Culture, The Legacy of Writing, An Early i) Library and an early Archaeologist.	<ol style="list-style-type: none">To discuss the development of writing in Mesopotamia.To explain the Mesopotamians' family structure and the system of marriage.To know what ancient stories tell us about the civilization of Mesopotamia.	<ol style="list-style-type: none">Preparing timeline taking help of chronology of events as well as pictures.Write an essay on the story of writing and share it with class matesMAP WORK	
2) May (Up-to 29 May 2024)	20	Ch- An Empire Across Three Continents a) The Early Empire, b) The Third Century Crisis c) Gender, Literacy and Culture d) Controlling Workers e) Social Hierarchies f) Late Antiquity g) Timeline	<ol style="list-style-type: none">To discuss sources historians, use to study the Roman Empire.To understand 3rd century crises.To discuss modern features of Roman society i.e prevalence of the nuclear family.To explain economic expansion of Roman empire.	<ol style="list-style-type: none">If you had lived in the Roman Empire, where would you rather have lived – in the towns or in the countryside? Explain why.Compile a list of some of the towns, cities, rivers, seas and provinces mentioned in this chapter, and then try and find them on the maps. Can you say something about any three of the items in the list you have compiled?MAP WORK	



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

SUMMER VACATION: 30 May 2024 to 30 June 2024

3) July 2024	22	Ch- Nomadic Empires a) Introduction, Social and Political Background b) The Career of Genghis Khan c) The Mongols after Genghis Khan d) Social, Political and Military Organization e) Conclusion: Situating Genghis Khan and the Mongols in World History	1. To understand the varieties of nomadic society and their institutions. 2. To locate the places in the map and comprehend the spread of the nomadic society. 3. Discuss whether state formation is possible in nomadic societies.	4. Students will be asked to prepare a comparative timeline. 5. Students will be asked to prepare glossary of terms. 6. Map work
4 August 2024 (Up-to 30 August 2024)	19	Ch- The Three Orders. a) Focus: Western Europe 13th-16th century b) Feudal society and economy	1. Make the learner understand the nature of the economy and society of this period and the changes within them.	1. Debate and explain the Historical phenomenon of feudalism. 2. Discussion on the impact of feudalism.
Syllabus Completion: 30 August 2024				
Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024				
Half Yearly Examination: 10 September 2024 to 27 September 2024				
Second Term Resumes: 30 September 2024				
5. October 2024	18	Ch- The Three Orders. a) Formation of state b) Church and society c) Historians' views on d) Decline of feudalism	1. Show how the debate on the decline of feudalism helps in understanding processes of transition. 2. Explain the myriad aspects of feudalism with special reference to first, second, third and fourth order of the society.	1. Assess the 14th century crisis and rise of the nation states



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6. November 2024	19	Ch- Changing Cultural Traditions Focus: Europe 14th-17 th century a) New ideas and new trends in literature and arts b) Relationship with earlier ideas c) The contribution of West Asia d) Historians' viewpoint on the validity of the notion 'European Renaissance'	1. To understand the term 'European Imperialism' 2. The theme tells the story of what European settlers did to the native peoples of America and Australia. 3. The natives and the Europeans represented competing notions of civilization	1. Collage Work
7. December 2024	19	Ch- Displacing Indigenous Peoples NORTH AMERICA a) The Winds of Change. European Imperialism b) The Natives Peoples, c) The Gold Rush and the growth of Industries d) Constitutional Rights, The Winds of Change AUSTRALIA a) The Winds of Change b) European Imperialism c) The Natives Peoples, Encounters with Europeans d) Mutual Perceptions e) The Natives Peoples Lose their Land	-	1. MAP WORK 2. Compare the effects of the coming of the railways in different countries in the world. 3. THINK, PAIR AND SHARE 2. 'A National Sorry Day' as apology for the children lost from the 1820s to the 1970s:

Winter Break: 30 December 2024 to 7 January 2025



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8. January 2025 (Up-to 31 January 2025)	18	<p>School Reopens: 8 January 2025 Ch-11, Paths to Modernization JAPAN: a) The Political System b) The Meiji Restoration c) Modernising the Economy d) Industrial Workers, Aggressive Nationalism e) ‘Westernisation’ and ‘Tradition’, Daily Life f) After Defeat: Re- emerging as A Global Economic Power.</p> <p>CHINA: a) Introduction b) Establishing the Republic c) The Rise of the Communist Party of China d) Establishing the New Democracy e) The Story of Taiwan</p>	<ol style="list-style-type: none"> 1. Make students aware that transformation in the modern world takes many different forms. 2. Show how notions like ‘modernization’ need to be critically assessed. 3. Discuss the domains of Japanese nationalism. 4. To understand the nationalist upsurge in China And to learn about the era of communism. 5. To analyse the Chinese path to modernization under Deng Xio Ping and Zhou en Lai in order to understand the transformation from rigid communism to liberal socialism. 	<ol style="list-style-type: none"> 1. THINK, PAIR AND SHARE: How notions like modernization need to be critically assessed. 2. MAP WORK
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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Class: XI		Subject: Political Science		Name of the Subject Teacher: Mr Abhishek Sharma	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I April (18 April 2024)	09	<p><u>PART A: INDIAN CONSTITUTION AT WORK</u> <u>Chapter 1: Constitution : Why and How? & Chapter 2: Rights in the Indian Constitution</u></p> <ul style="list-style-type: none"> Constitution: The Philosophy and Making of the Constitution. Fundamental Rights and Duties, Directive Principles of State Policy Constitutional Amendments. 	<ul style="list-style-type: none"> Understand the need for a constitution. Explain the scope of Fundamental rights Analyze the utility of rights in the contemporary scenario To Enable the student to understand the importance of constitution. To understand the structure of executive, legislature and judiciary To understand philosophy of fundamental rights and duties build their critical thinking skills Will able to know the value of constitution after knowing that countries that have constitutions are not necessarily democratic. But all countries that are democratic will have constitution. Able to analyse the different circumstances while leaders were framing the constitution. Appreciate the manners in which the Constituent Assembly worked gives sanctity to the constitution. 	PPT PRESENTATION	
2 May (Up-to 29 May 2024)	20	<p><u>Chapter 3 Elections and Representation</u></p> <ul style="list-style-type: none"> Elections and Democracy, Election System in India, Electoral Reforms. <p><u>Chapter 4: Executive</u></p> <ul style="list-style-type: none"> Parliamentary Executive in India: the President, the Prime Minister and the Council of Ministers. 	<ul style="list-style-type: none"> Examine the efficiency of reservation of constituencies Assess the electoral reforms Familiarize with Indian electoral system. Reason out for the adoption of present Indian Electoral System. Develop an appreciation of citizen's increased participation in electoral politics. Recognize the significance of the Election Commission. Critical analyzation that why elections considered 	RESEARCH FILE & EXPERIENTIAL LEARNING EXCURSION	



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		<ul style="list-style-type: none"> Permanent Executive: Bureaucracy <p><u>Chapter 5: Legislature</u></p> <ul style="list-style-type: none"> Why do we need a Parliament? Unicameral/Bicameral Legislature, Functions and Power of the Parliament, Parliamentary Committees, Parliamentary Officials: Speaker, Deputy Speaker, Parliamentary Secretary. 	<p>essential.. Examine the different types of Executive.</p> <ul style="list-style-type: none"> Understand the role and functions Prime Ministers and Council of Ministers describe the roles of the president list the qualifications and terms of the president identify the order of presidential succession list the president's executive and foreign-policy powers describe the judicial and legislative powers of the president • discuss how presidential power has grown over the years describe the electoral college explain how presidential candidates are nominated discuss how convention delegates are chosen describe the format for national conventions Understand the role and functions Prime Ministers and Council of Ministers. Assess the need for a strong Parliament Define 'parliamentary government' explain how a parliamentary government works discuss examples of parliamentary government in the world 	
<i>SUMMER VACATION: 30 May 2024 to 30 June 2024</i>				
3 July	22	<p><u>Chapter 6: Judiciary</u></p> <ul style="list-style-type: none"> Why do we need an Independent Judiciary? Structure and Jurisdiction of the 	<ul style="list-style-type: none"> Explain the need for an Independent Judiciary Analyze Judicial Activism from the late 1980s Critically evaluate Federalism with a strong Central 	Debate & Discussion on Judiciary



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		<p>Judiciary, Judicial Review, Judicial Activism, Judicial Over-reach</p> <p><u>Chapter 7: Federalism</u></p> <ul style="list-style-type: none"> • Meaning of Federalism, • Evolution & Growth of India Federalism: Quasi Federalism, • Cooperative Federalism, Competitive Federalism. <p><u>Chapter 8: Local Government</u></p> <ul style="list-style-type: none"> • Why do we need Local Governments? • Growth of Local Governments in India, • 73rd and 74th Constitutional Amendments, Working and Challenges of Local Governments 	<p>Government</p> <ul style="list-style-type: none"> • critically evaluate Federalism with a strong Central Government • develop a comprehensive understanding of conflicts in India's federal system— • trace the growth of Local Government in India— • understand decentralization via 73rd and 74th Amendments— <p>assess problems related to implementation of 73rd and 74th Amendments—</p>	
<p>4 August 2024 (Up-to 30 August 2024)</p>	19	<p><u>PART B : POLITICAL THEORY</u></p> <p><u>Chapter 1 : Political Theory: An Introduction</u></p> <ul style="list-style-type: none"> • What is Politics? • Politics vs Political Theory, • Importance of Political Theory. <p><u>Chapter 2: Liberty</u></p> <ul style="list-style-type: none"> • Liberty vs Freedom, • Negative and Positive Liberty. 	<ul style="list-style-type: none"> • understand the need for studying Political Theory. • explain the scope of Political Theory.— • understand the link between Positive and negative freedom.— • examine the efficacy of dialogical mode of justice— • critically evaluate J. S. Mill's Harm Principle.— • assess the efficacy of self-regarding and other regarding actions— <p>explain different approaches to politics and build their own understanding of Politics.</p>	Street Play



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Second Term Resumes: 30 September 2024

5. October 2024	18	<p><u>Chapter 3: Equality</u></p> <ul style="list-style-type: none"> • What is Equality? • Significance of Equality, • Various Dimensions of Equality, • How can we promote Equality? <p><u>Chapter 4: Justice</u></p> <ul style="list-style-type: none"> • What is Justice? • Different Dimensions of Justice, Distributive Justice. 	<ul style="list-style-type: none"> • Understand the need for Social equality. • Evaluate Ambedkar’s view on Social Justice.→ • understand the need for Social equality. • explain the scope of Feminist theory.→ understand the link between Equality and Affirmative Action.→ • examine the efficacy of different dimensions of equality.→ evaluate Ambedkar on Social Justice.→ Free Market Economy→ 	Case Study
6. November 2024	19	<p><u>Chapter 5:Rights</u></p> <ul style="list-style-type: none"> • What are Rights? History of Rights • Kinds of Rights, Human Rights. <p><u>Chapter 6: Citizenship</u></p> <ul style="list-style-type: none"> • Citizen and CitizenshipCitizen and Nation • Global Citizenship 	<ul style="list-style-type: none"> • Understand the need for Rights and the state • Explain the scope of different dimensions of rights • Evaluate Refugee problem and global citizenship.→ • understand the need for Rights and the state • explain the scope of different dimensions of rights • understand the link between Legal rights and the state • examine the efficacy of Universal and local citizenship.→ evaluate Refugee problem and global citizenship.→ 	PPT Presentation



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7. December 2024	19	<p><u>Chapter 7: Nationalism</u></p> <ul style="list-style-type: none"> Nation and Nationalism, Variants of Nationalism, Nationalism & Multiculturalism. <p><u>Chapter 8: Secularism</u></p> <ul style="list-style-type: none"> What is Secularism? Western and Indian Perspectives of Secularism Salient Features of Indian Secularism. 	<ul style="list-style-type: none"> Understand the need for constituents of a nation Explain Tagore's view on nationalism→ understand the need for constituents of a nation. explain Tagore on nationalism.→ examine the efficacy of features of Indian secular state. evaluate Western model of secularism.→ assess criticisms and defence of Indian secularism.→ 	Group Discussion
<i>Winter Break: 30 December 2024 to 7 January 2025</i>				
8. January 2025 (Up-to 31 January 2025)	18	<p><u>School Reopens: 8 January 2025</u></p> <p><u>PART A: INDIAN CONSTITUTION AT WORK</u></p> <p><u>Chapter 9 & 10 Constitution As a Living Document & Philosophy of Indian Constitution</u></p>	<p>Adaptability: The Constitution is designed to evolve with the changing needs and aspirations of society. It provides mechanisms like amendments and judicial interpretation to ensure relevance over time.</p> <p>Flexibility: A living constitution can accommodate new laws, policies, and societal norms without losing its foundational principles. It's not rigid but capable of growth and adaptation.</p> <p>Reflects Democratic Values: As a living document, the Constitution mirrors the democratic principles of the nation. It empowers citizens and ensures their participation in governance.</p> <p>Social Justice: By evolving over time, the Constitution aims to address emerging issues related to social justice, equity, and individual rights. It can respond to changing societal needs and challenges.</p> <p>Philosophy of the Indian Constitution:</p> <p>Justice (Social, Economic, Political): The Indian Constitution emphasizes justice in various dimensions. It seeks to ensure equality of opportunity and treatment for</p>	



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			<p>all citizens, irrespective of social and economic status.</p> <p>Liberty: The Constitution guarantees fundamental freedoms such as freedom of speech, expression, and religion. It aims to safeguard individual liberties while balancing them with collective interests.</p> <p>Equality: The principle of equality is fundamental to the Indian Constitution. It prohibits discrimination based on religion, race, caste, sex, or place of birth. The state is tasked with promoting equality and combating social inequalities.</p> <p>Fraternity: The Constitution promotes a spirit of brotherhood and unity among all citizens. It encourages a sense of common identity and purpose, transcending religious, linguistic, and</p>	
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Class: XI		Subject: GEOGRAPHY		Name of the Subject Teacher: AMAN MALIA	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I April (18 April 2024)	09	<p>Book-1</p> <p>Ch-1: Geography as a Discipline Definition</p> <ul style="list-style-type: none"> • Geography as an Integrating Discipline, • Physical Geography and Natural Sciences, • Geography and Social Sciences, Branches of Geography (Systematic and Regional) <p>Ch-2: The Origin and Evolution of the Earth</p> <ul style="list-style-type: none"> • Early Theories, Modern Theories (Origin of the Universe), • The Star Formation, • Formation of Planets, • Our solar System, • The Moon, • Evolution Of the earth, Evolution of the Lithosphere, Evolution of the Atmosphere and Hydrosphere, Origin of Life <p>Ch-3: Interior of the Earth</p> <ul style="list-style-type: none"> • Direct & Indirect Sources, • Earthquake, Earthquake Waves, • Propagation of Earthquake Waves, Emergence of Earthquake waves, Types & Effects of Earthquake, Structure of the Earth, Volcanoes and their Landforms 	<ul style="list-style-type: none"> • Students will be knowing geography as an interdisciplinary subject and branches of geography. • Students will be familiarize with Early Theories, Modern Theories (Origin of the Universe), The Star Formation, Formation of Planets, Our solar System, Origin of Life. • Direct and indirect sources to know about the interior of the earth. Earthquake, volcano and its different types of volcano. 	<p>Make flow chart on regional and systematic approach</p> <p>Web Charts and Flow Charts</p> <p>Diagrams and Web Charts</p>	



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2 May (Up-to 29 May 2024)	20	Book 2 Ch-4: Distribution of Ocean and Continents <ul style="list-style-type: none">Continental Drift theoryEvidences in support of the Continental DriftForce for drifting, Post Drift StudiesDistribution of Earthquake and VolcanoesConcept of Seafloor SpreadingPlate Tectonic and Plate Boundaries	<ul style="list-style-type: none">Students will be knowing about the theories regarding evolution of the continents and oceans.	Map Work and Diagrams
		Book 2 Ch-1: India- Size and Location <ul style="list-style-type: none">Longitudinal and latitudinal extentStandard time and local time conceptIndia and Its Neighbours	<ul style="list-style-type: none">Examine the relation between longitude and time latitude and amount of radiation received by the earth. Understand the concept of Local time and Standard time. Acquaintance with the position of India and their relationship with the neighbouring countries.Maps and its importance. Classification of maps on different basis.	Map Work and Diagrams



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		<p>Book-3 Ch-1: Introduction to Maps</p> <ul style="list-style-type: none"> • Essentials of Map Making • Map Construction and Production • History of Map Making • Types of Maps Based on Scale and Function • Uses of maps 		<p>Map Work and Diagrams</p>
<p align="center">SUMMER VACATION: 30 May 2024 to 30 June 2024</p>				
<p>3 July</p>	<p>22</p>	<p>Book 2 Ch-2, Physical Features Of India</p> <ul style="list-style-type: none"> • Geological Division of India • Physiographic Division of India • The Northern and North eastern Mountains • The Northern Plains • The Peninsular Plateau • The Indian Desert, • The Coastal Plains and Islands <p>Ch-3 : Drainage</p> <ul style="list-style-type: none"> • Drainage basin and Catchment Area • Drainage Patterns • The Himalayan Drainage System • Evolution of Himalayan Drainage • The River System of Himalayan Drainage- The Indus System, The Ganga System, The Brahmaputra System • Evolution of the Peninsular River Drainage, The Mahanadi, The Godavari, The Krishna, The kaveri, The Narmada, The Tapi, the Luni 	<ul style="list-style-type: none"> • Analyse how the geological process involved in the formation of different physical features • How climate, topology, slope affect the river, three major stages of the river system. • Various erosional and depositional landforms created by the river. • Role of rivers in the economy 	<p>Map Work and Diagrams</p> <p>Map Work and Diagrams</p>



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	<ul style="list-style-type: none">• Small Rivers flowing Towards east and West• Comparison between the Himalayan and Peninsular Rivers• River Regimes, Extent of Usability of River Water <p>Book 1 Ch-6: Geomorphic Processes</p> <ul style="list-style-type: none">• Geomorphic Processes• Endogenic and Exogenic Forces• Weathering and its Processes (Chemical,, Physical or Mechanical, Biological Weathering)• Special Effects of Weathering• Significance of weathering• Mass Movements, Erosion and Deposition• Soil Formation, Soil Forming Factors	<ul style="list-style-type: none">• Students will be knowing about Geomorphic Processes• Endogenic Forces, Exogenic Forces• Weathering and its Processes (Chemical,, Physical or Mechanical, Biological Weathering)• Special Effects of Weathering <p>Map Work and Diagrams</p> <ul style="list-style-type: none">• Students will understand the need of having Map scale and how to calculate it.	
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		<p>Book-3, Practical Ch-2 Map Scale</p> <ul style="list-style-type: none"> • Map scale • Different methods of calculating scale • Conversion of Scale <p>Ch-4: Map Projections</p> <ul style="list-style-type: none"> • Map Projection • Needs for Map Projections • Elements of map Projections • Classification of Maps • Projection Construction 	<ul style="list-style-type: none"> • Students will understand the need of Map projection and Projection construction. 	
4 August 2024 (Up-to 30 August 2024)	19	<p>Book 1 Ch-7, Landforms and Their Evolution</p> <ul style="list-style-type: none"> • Erosional and Depositional landforms of Running Water • Groundwater landforms • Glaciers and landforms • Wave and Currents and Wind. <p>Ch-8: Composition and Structure of the Atmosphere</p> <ul style="list-style-type: none"> • composition of the Atmosphere • Structure of the Atmosphere 	<ul style="list-style-type: none"> • Students will be knowing how the physical features are formed due to exogenic and endogenic forces. • Students will be familiarize with the composition of the Atmosphere and Structure of the Atmosphere 	<p>Map Work and Diagrams</p> <p>Diagrams</p>



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		<p>Ch-9: Solar Radiation, Heat Balance ,Temperature and Solar Radiation</p> <ul style="list-style-type: none"> • Variability of Insolation at the Surface of the Earth • The Passage of the solar Radiation Through the Atmosphere • Heating and the Cooling of Atmosphere • Terrestrial Radiation • Heat Budget of the Planet Earth • Variation in the Net Heat Budget at the earth's Surface • Factors controlling temperature distribution • Distribution of Temperature • Inversion of the Temperature 	<ul style="list-style-type: none"> • Student will be analysing the difference between solar Radiation and terrestrial radiation Variability of Insolation at the Surface of the Earth, Heat budget Factors Controlling Temperature Distribution. 	Diagrams
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Half Yearly Examination: 10 September 2024 to 27 September 2024

Second Term Resumes: 30 September 2024

5. October 2024	18	<p>Book 1</p> <p>Ch-10: Atmospheric Circulation and Weather System</p> <ul style="list-style-type: none"> • Atmospheric Pressure • Vertical Variation of Pressure • Horizontal Distribution of Pressure • World Distribution of Sea Level Pressure • Forces Affecting the Velocity and Direction of wind • General Circulation of the Atmosphere 	<ul style="list-style-type: none"> • Students will be analysing the factors influencing the permanent and local winds on earth surface, Air Masses, Fronts, Extra Tropical Cyclone, Tropical Cyclone, Thunderstorms and Tornadoes 	Diagrams
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		<ul style="list-style-type: none"> Seasonal Winds, Local Winds, Land and Sea Breezes, Mountain and the Valley winds Air Masses and fronts Extra Tropical Cyclone, Tropical Cyclone, Thunderstorms and Tornadoes <p>Ch-11: Water in the Atmosphere</p> <ul style="list-style-type: none"> Evaporation and Condensation Dew, Frost, Fog and Mist, Clouds Precipitation Types of Rainfall World distribution of Rainfall. 	<ul style="list-style-type: none"> Learners will know how the Evaporation and Condensation, Dew, Frost, Fog and Mist occur, Clouds, Precipitation, Types of Rainfall. 	Diagrams
6. November 2024	19	<p>Book 2</p> <p>Ch-4 Climate</p> <ul style="list-style-type: none"> Climate and Weather Unity and Diversity in the Monsoon Factors Determine the Climate of India (Factors Related to Location and Relief, Factors Related to Pressure and Wind) Mechanism of Weather in the Winter Season Mechanism of Weather in the Summer Season The Nature of Indian Monsoon Intertropical Convergence Zone El Nino and the Indian Monsoon Distribution of Rainfall Climatic Region of India Monsoon and the economic life of India Global Warming 	<ul style="list-style-type: none"> Students will discuss various factors affecting the climate of India Understand the mechanism of Monsoon. Analyse the onset and withdrawal of monsoon in India. Acquaintance with the distribution of rainfall in Indian Region. 	Map Work and Diagrams



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		<p>Book 2 Ch-5: Natural Vegetation:</p> <ul style="list-style-type: none"> • Natural Vegetation • Types of Forest (Tropical Evergreen Forests, Tropical Deciduous Forests, Tropical Thorn Forests, Montane Forests, Littoral and Swamp Forests) • Forest cover in India • Forest Conservation, Social Forestry, Farm Forestry • Wildlife conservation in India, Biosphere Reserves, (Nilgiri Biosphere, Nanda Devi Biosphere, Sunderban Biosphere, Gulf of Mannar) 	<ul style="list-style-type: none"> • Acquaintance of various factors affecting diversity in India. • Enhance knowledge about the number of species of plants and animals in India. • How climate, topography, slope affect the growth of natural vegetation and wildlife. 	Map Work and Diagrams
7. December 2024	19	<p>Book 1 Ch-7: Natural Hazards and Disaster</p> <ul style="list-style-type: none"> • What is a Disaster • Classification of natural Disasters • Earthquake(Earthquake zones, Effects of Earthquakes, Earthquake Hazard Mitigation) • Tsunami • Tropical Cyclone • Floods • Drought Prone Area in India, Consequences of Drought • landslide(landslide Vulnerable Zone, Mitigation) • Disaster Management 	<p>To be tested in the form of Internal assessment</p> <ul style="list-style-type: none"> • Class will be divided into various groups and all the groups will give Power point presentation • Students will be knowing about the disaster and its types and mitigation methods. 	PPT Presentation



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		<p>Book-1 Ch-13: Water (Ocean)</p> <ul style="list-style-type: none"> Hydrological Cycle Relief of the Ocean Floor Division of the Ocean Floors (Major and Minor) Temperature of the Ocean Water Factors Affecting Temperature Distribution Horizontal and Vertical Distribution of Temperature Salinity of the Ocean water and Vertical Distribution of Salinity <p>Ch-13: Movements of the Ocean Water</p> <ul style="list-style-type: none"> Waves Characteristics of waves Tides and Types of Tides Importance of Tides Ocean Currents and types of Ocean Currents Effects of Ocean Currents 	<ul style="list-style-type: none"> Students will analyze the Hydrological Cycle and water budget Will understand Relief of the Ocean Floor, Division of the Ocean Floors (Major and Minor). Students will understand Different movements like waves, tides and currents and their impacts. 	<p>Map Work and Diagrams</p> <p>Map Work and Diagrams</p>
<p>Winter Break: 30 December 2024 to 7 January 2025</p>				
8. January 2025 (Up-to 31 January 2025)	18	<p>School Reopens: 8 January 2025</p> <p>Ch-16, Biodiversity and Conservation</p> <ul style="list-style-type: none"> Biodiversity Different Levels of Biodiversity Importance of Biodiversity Loss Of Biodiversity- Endangered Species, Vulnerable Species, Rare Species Conservation of Biodiversity 	<ul style="list-style-type: none"> Students will be knowing about Different Levels of Biodiversity, Importance of Biodiversity, Loss of Biodiversity, Endangered Species, Vulnerable Species, Rare Species 	<p>Map Work</p>



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: ECONOMICS (030)		Name of the Subject Teacher: MR. ACHINT BAJPAI	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
1. April (18 April 2024)	09	<p>Part B: Introductory Microeconomics Unit 4: Introduction Meaning of microeconomics and macroeconomics; positive and normative economics</p> <p>What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost</p>	<p>To understand the rationale behind determining a situation where a consumer attains rest? How will he react in a situation if he is disturbed from such a position in case he measures his utility in numbers or he ranks them?</p> <p>To understand the idea of the term demand and how it differentiates with a desire and a want.</p>		
2. May (Up-to 29 May 2024)	20	<p>Demand and Supply and their Elasticities Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method.</p> <p>Supply, market supply, determinants of supply, supply schedule, supply curve and its slope,</p>	<p>To develop a sound distinction between the effects on a consumer’s demand and quantity demanded in case of various factors affecting demand, situations which breach the standard law of demand and also the numerical expression to the law of demand .</p>	Application through schedules, graphs and Numerical.	



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		movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.	To understand the basis of the relationship between price , quantity supplied and other factors affecting supply of a firm.	
		Summer Vacation: 30 May 2024 to 30 June 2024		
		School Reopens: 1 July 2024		
3. July	22	<p>Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p>Analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Measures of Central Tendency- Arithmetic mean, median and mode</p>	<p>The students will be able to understand the difference between measuring consumer's equilibrium by cardinal and ordinal approach and also determine graphical interpretation of the concepts.</p> <p>The students shall be able to calculate and understand working of average, median ,mode and also differentiate between them as various measures of central tendency</p>	Diagrammatic and Tabular Presentation
4 August 2024 (Up- to 30 August 2024)	19	<p>Measures of Dispersion - absolute dispersion (range, quartile deviation, and standard deviation*); relative dispersion (co-efficient of range, co-efficient of quartile-deviation).</p> <p>Correlation – meaning and properties,</p>	<p>To mark a difference between various absolute and relative measures of dispersion vis their calculation.</p> <p>To develop an understanding between two variables whether directly or indirectly correlated.</p>	<p>Working Numerical</p> <p>Numerical Problems</p>



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		scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.	To gain proficiency in developing a correlation by Karl Pearson's method and Spearman's rank correlation.	
		<u>Syllabus Completion: 30 August 2024</u>		
		<u>Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024</u>		
		<u>Half Yearly Examination: 10 September 2024 to 27 September 2024</u>		
		<u>Second Term Resumes: 30 September 2024</u>		
5. October 2024	18	<p>Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers.</p> <p>Introduction What is Economics? Meaning, scope, functions and importance of statistics in Economics</p> <p>Collection, Organisation and Presentation of data</p> <p>Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data:</p>	<p>To gain sound knowledge on various price and quantity indexes which help in assessing the cost of living index in a particular year.</p> <p>Students will be able to understand the meaning of statistics as a discipline of economics, its limitations, Functions and opinions.</p> <p>The student shall be able to differentiate between various sources of collecting data and also recall the classification of data into primary and secondary.</p>	<p>Numerical Problems</p> <p>Quiz and Multiple Choice Questions.</p>



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		<p>Census of India and National Sample Survey Organisation.</p> <p>Organisation of Data: Meaning and types of variables; Frequency Distribution.3 Presentation of Data: Tabular Presentation and Diagrammatic</p> <p>Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph)</p>	<p>Students will be able to arrange and present data in tabular form and also differentiate between different types of tables.</p> <p>They shall also be able to present the data graphically via various tools histogram, polygon, ogive and mark a difference between them</p>	<p>Quiz and Multiple Choice Questions.</p>
6. November 2024	19	<p>Produce's Behaviour Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor: Law of Variable Proportions.</p> <p>Cost and Revenue:- Different types of cost and their relationships.</p> <p>Producer's equilibrium - meaning and its conditions in terms of marginal revenue - marginal cost.</p>	<p>The student shall be able to understand the way a firm operates in short period wherein a distinction between variable and fixed factors of production can be marked. He shall also be able to understand the various aspects of production in a firm and their behavioural pattern in the short period via a standardised law.</p> <p>To enhance the fundamental principle of stability or position of rest to a firm by utilising the previous concepts of cost and revenue.</p> <p>To emphasise on the expenditures incurred by a firm in the production of a commodity whether monetary or non-monetary and their behavioural pattern usually in short period. Also post sales income i.e. revenue shall be</p>	<p>Application through schedules, graphs and Numerical.</p> <p>Also utilising the fundamentals of cost and revenue.</p>



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			understood by the student in case of various market conditions so as to create a sound foundation for understanding the concept of a producer's equilibrium	
7. December 2024	19	<p>Forms of Market and Price Determination under Perfect Competition with simple applications.</p> <p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.</p> <p>Other Market Forms - monopoly, monopolistic competition - their meaning and features</p>	To learn what are the key features of a market? and identify the difference between various forms of market existent as part of syllabus including their features and implications.	Real world examples /case studies.
		<u>Winter Break: 30 December 2024 to 7 January 2025</u>		
		<u>School Reopens: 8 January 2025</u>		
8. January 2025 (Up- to 31 January 2025)	18	Revision `for Annual Exams	To make students understand the working and the key areas of statistics in real world application.	
		<u>Syllabus Completion: 31 January 2025</u>		
		<u>Revision- Annual Examination: 3 February 2025 to 6 February 2025</u>		
		<u>Annual Examination: 7 February 2025 to 21 February 2025</u>		



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Class: XI		Subject: APPLIED MATHEMATICS		Name of the Subject Teacher: Mr ASHISH PUNJ	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I	9	UNIT – 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS(Contd.)	<p>Pupil will be able to :</p> <ul style="list-style-type: none">Express decimal numbers in binary systemExpress binary numbers in decimal systemRelate indices and logarithm /antilogarithmFind logarithm and antilogarithms of given numberEvaluate the angular value of a minuteCalculate the angle formed between two hands of clock at given timeCalculate the time for which hands of clockDetermine Odd days in a month/ year/ centuryDecode the day for the given dateSolve word problems based on given topicTo solve numerical applications based on calendar,time,work & distance , mensuration etc.	Project on evolution of LOGARITHMS	
II	20	UNIT – 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS(Contd.) UNIT – 2 ALGEBRA (Contd.)	<p>Pupil will be able to</p> <ul style="list-style-type: none">Define sets.Differentiate between types of sets.Solve word problems related to it.Define relationCategorise different type of relations.To recall different sets of statements along with special words/phrases.		



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			<ul style="list-style-type: none"> To validate statements. 	
Summer vacation: 30 May 2024 to 30 June 2024				
School Reopens: 1 July 2024				
III	22	UNIT – 2 ALGEBRA (Contd.) UNIT -3 MATHEMATICAL REASONING UNIT 8 : COORDINATE GEOMETRY	<ul style="list-style-type: none"> Apply the concept of Venn diagram to understand the relationship between sets Solve problems using Venn diagram Solve logical problems involving odd man out, syllogism, blood relation and coding decoding Define permutation Apply the concept of permutation to solve simple problems Differentiate between permutation and combination Apply the formula of combination to solve the related problems <ul style="list-style-type: none"> To understand relationship between various conic sections. To write general equations for various conic sections. To solve word problems based on above topic	CONSTRUCTION OF CONIC SECTIONS SUM OF ODD NUMBERS
IV	19	UNIT 4: CALCULUS (contd.)	<ul style="list-style-type: none"> Define domain, range and co-domain of a given function Define limit of a function <ul style="list-style-type: none"> Solve problems based on the algebra of limits 	
Syllabus completion: 30 August 2024				



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Half Yearly Examination: 10 September 2024 to 27 September 2024

Second Term Resumes: 30 September 2024

V	18	UNIT 4: CALCULUS (contd.) UNIT 5 : PROBABILITY	<ul style="list-style-type: none">To recall the concept of limits.To differentiate mathematical functions. To use product rule & quotient rule in differentiating given functions <ul style="list-style-type: none">To define sample space for given events.To find probability for different set of events. To solve problems based on BAYES' theorem	To find slope of a function graphically.
VI	19	UNIT 6 : DESCRIPTIVE STATISTICS	<ul style="list-style-type: none">To recall basic concepts of simple interest and compound interest. To solve problems related to it. <ul style="list-style-type: none">To find mean deviation from median & mean To find mean, standard deviation & variance for given observations	
VII	19	UNIT 7 : FINANCIAL MATHEMATICS(contd.)	<ul style="list-style-type: none">To recall basic concepts of simple interest and compound interest. To solve problems related to annuity. To find income tax,electricity bill,water bill etc.	Project on BILLS
Winter Break: 30 December 2024 to 7 January 2025				
VIII	18	UNIT 7 : FINANCIAL MATHEMATICS(contd.) REVISION FOR ANNUAL EXAMINATION	<ul style="list-style-type: none">Define with examples the concept of effective rate of interest.Interpret the concept of compounding and discounting along with practical applicationsCompute net present value	



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			•Apply net present value in capital budgeting decisions	
SYLLABUS COMPLETION : 31.01.2025				
REVISION ANNUAL				



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Class: XI		Subject: PHYSICAL EDUCATION		Name of the Subject Teacher: Mr. ARJUN BISHT	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
1. April (18 April 2024)	09	Unit – I Changing Trends and Careers in Physical Education 1. Concept, Aims & Objectives of Physical Education 2. Development of Physical Education in India – Post Independence 3. Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements 4. Career options in Physical Education 5. Khelo-India Program and Fit – India Program	<ul style="list-style-type: none">To make the students understand the meaning, aims, and objectives of Physical Education.To Teach students about the development of physical education in India after Independence.To educate students about the development of sports surfaces, wearable gear, sports equipment, and technology.To make students know the different career options available in the field.To make them know about the Khelo India Program	PPT on different career options.	
2. May (Up-to 29 May 2024)	20	Unit – II Olympism Value Education 1. Olympism – Concept and Olympics Values (Excellence, Friendship & Respect) 2. Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind 3. Ancient and Modern Olympics 4. Olympics - Symbols, Motto, Flag, Oath, and Anthem. 5. Olympic Movement Structure-IOC, NOC, IFS, Other members	<ul style="list-style-type: none">To make the students aware of Concepts and Olympics Values (Excellence, Friendship & Respect)To make students learn about Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & MindTo make students understand ancient and modern Olympic games.To make the students aware of Olympics - Symbols, Motto, Flag, Oath, and Anthem.To make students learn about the working and functioning of IOC, NOC and IFS, and other members	Prepare a chart of Olympic Symbols.	



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SUMMER VACATION: 30May 2024 to 30 June 2024

School Reopens: 1 July 2024

3. July	22	<p>Unit – III Yoga</p> <ol style="list-style-type: none"> 1. Meaning and importance of Yoga 2. Introduction to Astanga Yoga 3. Yogic Kriyas (Shat Karma) 4. Pranayama and its types. 5. Active Lifestyle and stress management through Yoga. <p>Unit – IV Physical Education and Sports for Children with Special Needs</p> <ol style="list-style-type: none"> 1. Concept of Disability and Disorder 2. Types of Disability, its causes & nature (Intellectual disability, Physical disability). 3. Disability Etiquette 4. Aim and objectives of Adaptive Physical Education. 5. Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, And Special Educator) 	<ul style="list-style-type: none"> • To make the students aware of the meaning and importance of yoga • To make them learn about Astanga yoga. • To teach students about yogic kriya, specially shat karmas. • To make the learn and practice types of Pranayama. • To make them learn the importance of yoga in stress management. • To make the students aware concept of Disability and Disorder. • To make students aware of different types of disabilities. • To make students learn about Disability Etiquette. <p>To make the students Understand the aims and objectives of Adaptive Physical Education</p> <p>To make students aware of role of various professionals for children with special needs</p>	Pictorial presentations of different yogic kriyas.
4 August 2024 (Up-to 30 August 2024)	19	<p>Unit – V Physical Fitness, Wellness, and Lifestyle</p> <ol style="list-style-type: none"> 1. Meaning & importance of Wellness, Health, and Physical Fitness. 2. Components/Dimensions of Wellness, Health, and Physical Fitness 3. Traditional Sports & Regional Games for promoting wellness 	<ul style="list-style-type: none"> • To make the students understand the Meaning & importance of Wellness, Health, and Physical Fitness • To make students aware of the Components/Dimensions of Wellness, Health, and Physical Fitness • To make students learn Traditional Sports & 	



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		<p>4. Leadership through Physical Activity and Sports.</p> <p>5. Introduction to First Aid –PRICE.</p> <p>Unit – VI Test, Measurement & Evaluation</p> <p>1. Define Test, Measurements and Evaluation.</p> <p>2. Importance of Test, Measurements and Evaluation in Sports.</p> <p>3. Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site)</p> <p>4. SomatoTypes (Endomorphy, Mesomorphy & Ectomorphy).</p> <p>5. Measurements of health-related fitness.</p>	<p>Regional Games to promote wellness</p> <ul style="list-style-type: none"> To develop Leadership qualities through Physical Activity and Sports in students To make students learn First Aid and its management skills. To Introduce the students with the terms like test, measurement and evaluation along with its importance. To Introducing them the methods of calculating BMI, Waist-hip ratio and Skinfold measurement. To make the students aware of the different somatotypes. To make the students learn the method to measure health-related fitness. 	<p>Prepare a creative test for checking any particular skills.</p>
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Syllabus Completion: 30 August 2024

Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024

Half Yearly Examination: 10 September 2024 to 27 September 2024

Second Term Resumes: 30 September 2024

5. October 2024	18	<p>Unit – VII Fundamentals of Anatomy, Physiology in Sports</p> <p>1. Definition and importance of Anatomy and Physiology in Exercise and Sports.</p> <p>2. Functions of Skeletal System, Classification of Bones, and Types of Joints.</p> <p>3. Properties and Functions of Muscles.</p> <p>4. Structure and Functions of Circulatory System and Heart.</p> <p>5. Structure and Functions of Respiratory System</p>	<ul style="list-style-type: none"> The students will learn the meaning and definition & identify the importance of anatomy, physiology, and kinesiology. Students will understand the main functions and Classification of Bone and the Types of Joints. The students will learn the Properties and Functions of Muscles. The students will learn the Structure and Functions of the Circulatory System and Heart. The students will learn the Structure and Functions of Respiratory System. 	<p>Anatomical art for Athletes.</p>
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6. November 2024	19	Unit – VIII Fundamentals Of Kinesiology And Biomechanics in Sports 1. Definition and Importance of Kinesiology and Biomechanics in Sports. 2. Principles of Biomechanics 3. Kinetics and Kinematics in Sports. 4. Types of Body Movements-Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation. 5. Axis and Planes – Concept and its application in body movements	<ul style="list-style-type: none"> To make the students learn the principles of biomechanics. To make the students understand the concept of Kinetics and Kinematics in Sports To make the students learn about different types of body movements. To make the students understand the concept of Axis and Planes and its application in body movements. 	Prepare a Chart on different movements.
7. December 2024	19	Unit – IX Psychology and Sports 1. Definition & Importance of Psychology in Physical Education & Sports; 3. Developmental Characteristics at Different Stages of Development; Adolescent Problems & their Management; 4. Team Cohesion and Sports; 5. Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness	<ul style="list-style-type: none"> The students will identify the definition and importance of Psychology in Physical Education and sports. The students will be able to differentiate characteristics of growth and development at different stages Students will be able to identify the issues and management related to adolescents. The students will be able to understand the importance of team cohesion in sports. Students will distinguish different Psychological Attributes like Attention, Resilience, and Mental Toughness. 	Visualize victory through Art.
Winter Break: 30 December 2024 to 7 January 2025				
School Reopens: 8 January 2025				
8. January 2025 (Up-to 31 January 2025)	18	Unit – X Training & Doping in Sports 1. Concept and Principles of Sports Training 2. Training Load: Over Load, Adaptation, and Recovery	<ul style="list-style-type: none"> To make the students aware about of concepts and principles of sports training. To make students learn and understand the Training Load, Over Load, Adaptation, and Recovery concepts. 	Compare Warming up and cooling down for different climate. (Prepare chart)



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		<ol style="list-style-type: none">3. Warming-up & Limbering Down– Types, Method & Importance4. Concept of Skill, Technique, Tactics & Strategy5. Concept of Doping and its disadvantages.	<ul style="list-style-type: none">• To make students Understand the importance of warning up and limbering down exercises.• To introduce the terms like Skills, Techniques, Tactics, and Strategies to the students.• To make students aware of the doping substances and their disadvantages in sports.	
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Syllabus Completion: 31 January 2025

Revision- Annual Examination: 3 February 2025 to 6 February 2025

Annual Examination: 7 February 2025 to 21 February 2025



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Class: XI		Subject: Commercial Art 052		Name of the Subject Teacher: Surender Kumar	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
April	9	Fundamentals of Visual Arts the element and principles of art	Elements of art are stylistic features that are included within an art piece to help the artist communicate. The seven most common elements include line, shape, texture, form, space, colour and value, with the additions of mark making, and materiality. Students Will be able to understand the principles of drawings, lines, colour & Different types of textures. Students will be able to develop Observation & Drawing Skills.		
May	20	Unit 1 prehistoric rock paintings	Period and Location Study and appreciation of following Pre-historic paintings: Wizard's Dance, Bhimbethaka		
July	22	Art of indus valley civilization	Harappa & Mohenjo-daro (Now in Pakistan) Ropar, Lothal, Rangpur, Alamgirpur, Kali Bangan, Banawali and Dholavira (in India) Dancing girl, Male Torso, Mother Goddess, Bull,		
August	19	Unit 2 Buddhist, Jain and Hindu Art (3rd century B.C. to 8th century A.D.) General introduction to art during mauryan shunga kushan and gupta period	Lion Capital from Sarnath (Mauryan period) Polished sandstone, Circa 3 rd Century B.C. (Collection: Sarnath Museum, U.P.) Chauri Bearer from Didar Ganj (Yakshi) (Mauryan period) Polished sandstone Circa 3rd Century B.C. (Collection: Patna Museum, Bihar) Seated Buddha from Katra Mound, Mathura-(Kushan Period Mathura Style) Red-spotted Sand Stone, Circa 3rd Century AD. (Collection: Govt. Museum, Mathura) Jain Tirathankara (Gupta period) Stone Circa 5th Century A.D. (Collection: State Museum, Lucknow U.P.)		



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

October	18	Introduction to Ajanta Location	Period, No of caves, Chaitya and Vihara, paintings and sculptures, subject matter and technique etc	
November	19	Unit 3 A. Temple Sculpture, Bronzes and artistic aspects of IndoIslamic Architecture B. Bronzes	Artistic aspects of Indian Temple sculpture (6th Century A.D. to 13th Century A.D.) Descent of Ganga, Trimuti, Lakshmi Narayana, Cymbal Player, Sun Temple, Mother and Child. Introduction to Indian Bronzes.	
December	19	Unit 3 C. Artistic aspects of the indo-Islamic architecture	Qutub Minar, Delhi Gol Gumbad of Bijapur	



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: ARTIFICIAL INTELLIGENCE (843)		Name of the Subject Teacher: Ms. Ruchi Tyagi	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
01 APRIL	9 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 1 – INTRODUCTION: ARTIFICIAL INTELLIGENCE FOR EVERYONE</p> <ul style="list-style-type: none"> •What is Artificial Intelligence? •Evolution of AI •Types of AI •Domains of AI •AI Terminologies •Benefits and limitations of AI 	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Communicate effectively about AI concepts and applications in written and oral formats. • Describe the historical development of AI. • Differentiate between various types and domains of AI, including their applications. • Recognize the key terminologies and concepts related to machine learning and deep learning. • Formulate informed opinions on the potential benefits and limitations of AI in various contexts. • Define and describe machine learning • Differentiate between structured and unstructured data • Describe how machine learning structures data • Describe how machine learning structures unstructured data • Describe how machine learning uses probabilistic calculation to solve problems • Describe three methods by which machine learning analyses data • Describe an ideal relationship between humans and machine learning 	<p>Categorize the given applications into the three domains</p> <p>IBM Skills Build – Introduction to AI</p>	
02 MAY	20 Days	<p>(PART B)Subject specific skills</p> <p>UNIT 3 –PYTHON PROGRAMMING</p> <p>Level 1 :Basics of python programming,</p>	<p>Students will be able to –</p> <p>Explain the basics of python programming language and write programs with basic concepts of tokens.</p>	<p>Minimum five programs using operators, data types, control</p>	



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		<p>character sets, tokens, modes, operators, datatypes, Control Statements</p> <p>Level 2 :CSV Files, Libraries – Numpy, Pandas, Scikit-learn</p>	<p>Use selective and iterative statements effectively. Gains practical knowledge on how to use the libraries efficiently.</p>	<p>statements (Level 1)</p> <ul style="list-style-type: none"> • Minimum 5 programs on Numpy, Pandas, Scikit-learn (Level 2) <p>IBM SkillsBuild - Python for Data Science</p>
03 JULY	22 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 2 - UNLOCKING YOUR FUTURE IN AI</p> <ul style="list-style-type: none"> • The Global Demand • Some Common Job Roles In AI • Essential Skills and Tools for Prospective AI Careers • Opportunities in AI across Various Industries <p>(PART A)</p> <p>UNIT 1: COMMUNICATION SKILLS – III</p>	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Articulate the demand for AI professionals and the diverse career opportunities available in the field. • Identify the requisite skills and tools needed to pursue a career in artificial intelligence. • Understand the potential roles and responsibilities of AI professionals across different industries. • Explore resources for further learning and skill development in the field of AI. • Evaluate their own interests and skills to determine potential pathways for a career in AI. 	<ul style="list-style-type: none"> • Identify ten companies currently hiring employees for in specific AI positions. • Note down the technical skills and soft skills listed by any two companies for the specific AI position. <p>IBM Skills Build : Your Future in AI: The Job Landscape</p>



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

04 AUGUST	19 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 4 - INTRODUCTION TO CAPSTONE PROJECT</p> <ul style="list-style-type: none"> • Design Thinking • Empathy Map • Sustainable Development Goals • Capstone Project <p>(PART A) UNIT 2: SELF-MANAGEMENT SKILLS – III</p>	<p>Students will be able to –</p> <ul style="list-style-type: none"> Decompose any problem using the 5W1H method. Apply Design thinking methodology. Create empathy maps. Align problems to SDGs. Apply all the learnings in solving real world problems. Comfortably express their solution to a problem in non-technical words. 	<p>Create an empathy map for a given scenario</p> <p>Project Abstract Creation Using Design Thinking Framework</p> <p>IBM SkillsBuild - What is Design thinking?</p>
<p>REVISION-HALF YEARLY EXAMINATION : 2 SEPTEMBER 2024 – 9 SEPTEMBER 2024 HALF YEARLY EXAM 10 SEPTEMBER- 27 SEPTEMBER 2024</p>				
05 OCTOBER	18 Days	<p>(PART B)Subject specific skills</p> <p>UNIT 5 - DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS</p> <ul style="list-style-type: none"> • What is Data Literacy? • Data Collection • Exploring Data • Statistical Analysis of data • Representation of data, Python Programs for Statistical Analysis and Data Visualization • Introduction to Matrices • Data Pre-processing • Data in Modelling and Evaluation 	<p>Students will be able to –</p> <ul style="list-style-type: none"> Explain the importance of data literacy in AI. Identify different data collection methods and their applications. Comprehend mathematical concepts related to matrices, its operations, and applications. Apply basic data analysis techniques to analyse data. Visualize the data using different techniques. 	<p>Identification of the level of measurement</p> <ul style="list-style-type: none"> • Python programs to demonstrate the use of mean, median, mode, standard deviation and variance • Python programs to visualise the line graph, bar graph, histogram, scatter graph and



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		<p>(PART A) 3: ICT SKILLS – III</p>		<p>pie chart using matplotlib</p> <p>IBM SkillsBuild - Data Visualisation with Python (Modules 1,2,3)</p>
06 NOVEMBER	19 Days	<p>(PART B) Subject specific skills UNIT 6 – MACHINE LEARNING ALGORITHMS</p> <ul style="list-style-type: none"> Machine Learning in a nutshell Types of Machine Learning Supervised Learning Understanding Correlation, Regression, Finding the line, Linear Regression algorithm Classification – How it works, Types, k – Nearest Neighbour algorithm Unsupervised Learning Clustering – How it works, Types, k - means Clustering algorithm <p>(PART A) UNIT 4: ENTREPRENEURIAL SKILLS – III</p>	<p>Students will be able to –</p> <p>Differentiate the different types of machine learning methods.</p> <p>They will be able to understand the concept behind each machine learning methods.</p> <p>Apply these methods to develop simple solutions for some day-to-day situations.</p> <p>Build up this knowledge to the next level to apply during Capstone Project development.</p>	<p>Calculation of pearson correlation coefficient in MS – Excel.</p> <p>Demonstration of Linear regression in MS – Excel / using python program.</p> <p>Demonstration of k – Nearest Neighbour using python program.</p> <p>Demonstration of k – means clustering using python program.</p> <p>IBM SkillsBuild - Machine learning with Python</p>
07 DECEMBER	19 Days	<p>(PART B) Subject specific skills UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE</p>	<p>Students will be able to –</p> <p>Develop a better understanding of the complexities of language and the challenges involved in NLP tasks.</p>	<p>Write an article on “IBM Project Debater –</p>



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		<ul style="list-style-type: none"> • Understanding Human Language Complexity • Introduction to Natural Language Processing (NLP) - Emotion Detection and Sentiment Analysis, Classification Problems, Chatbot • Phases of NLP • Applications of NLP <p>(PART A) UNIT 5: GREEN SKILLS – III</p>	Learn new techniques and algorithms for NLP tasks.	<p>Interesting facts” Create a chatbot on ordering ice-creams using any of the following platforms: Google Dialogflow Botsify.com Botpress.com</p> <p>IBM SKillsBuild - Natural Language Processing</p>
08 JANUARY	18 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 8 – AI ETHICS AND VALUES</p> <ul style="list-style-type: none"> • Ethics in Artificial Intelligence • The five pillars of AI Ethics • Bias, Bias Awareness, Sources of Bias • Mitigating Bias in AI Systems • Developing AI Policies • Moral Machine Game • Survival of the Best Fit Game 	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Demonstrate an understanding of the fundamental principles of ethics and gain insight into ethical considerations related to AI technologies. • Develop an understanding of AI bias, its sources, and its real-world implications, as well as the ethical considerations. • Identify and apply strategies for mitigating bias in AI systems to promote fairness and transparency in technology. • Recognize the significance of AI policies in promoting responsible, safe, and ethical use of AI technologies. 	<p>Summarize your insights and interpretations from the video "Humans need not apply.”</p> <p>Activity: Role Play on biased AI systems</p> <p>IBM SkillsBuild - AI Ethics Comparative study of AI policies (that involve examining guidelines and</p>



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				principles) established by various organizations and regulatory bodies Understanding ethical dilemma using Moral machine Survival of the best fit
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Syllabus Completion: 31 JANUARY, 2025
REVISION ANNUAL EXAMINATION 3 FEB – 6 FEB, 2025
ANNUAL EXAMINATION: 7 FEB 2025 – 21 FEB 2025



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: Computer Science(083)		Name of the Subject Teacher: Ms. Vidhi Arora Hasija	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I April 2024	9	Unit II: Computational Thinking and Programming-I <ul style="list-style-type: none"> ● Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments 	To understand the features of the programming language python and to discriminate between the different programming languages. The students will learn how to use python through Python software.	Students will do hands-on in the lab and create their first program both in Shell mode and Script mode.	
II May 2024	20	<ul style="list-style-type: none"> ● Knowledge of data types: Number (integer, floating point, complex), boolean, sequence (string, list, tuple), None, Mapping(dictionary), mutable and immutable data types. ● Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in) ● Expressions, statement, type conversion, and input/output: precedence of operators, expression, and evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output. ● Errors-syntax errors, logical errors, and run-time errors ● Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow ● Conditional statements: if, if-else, if-elif-else 	To understand all necessary terms of the python platform like indentation, variables, data types etc. To learn the various python operators used to create an expression and to understand the flow of programming language Students will be able to recognize and debug, the various errors generated while coding of the programs.	Activity Think-Play Share based on concept of Datatypes Practical implementation of python programming operators Practical implementation of basics of Python using conditional statements.	

Summer Vacation: 30 May 2024 to 30 June 2024



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<p>III July 2024</p>	<p>22</p>	<ul style="list-style-type: none"> • Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc • Pratical work of all topics covered so far 	<p>To understand the control & flow of programming through various conditional and iterative statements.</p>	<p>Creation of a small project based on basic Python programming using the concept of control statements</p>
<p>IV August 2024</p>	<p>19</p>	<ul style="list-style-type: none"> • Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods–len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(),lstrip(), rstrip(), strip(), replace(), join(), partition(), split() • Lists: indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loop, built-in functions/ methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list. • Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple 	<p>To learn the concept of storing multiple values in a single datatype. To learn the basic operation in Strings and Lists and Tuples .</p>	<p>Google form Quiz based on Strings, Tuple and List Practical implementation of strings, tuples and lists in python programming</p>
<p>Syllabus Completion : 30 August 2024 Revision- Half Yearly Examination: 2 September 2024 to 9 September 2024 Half Yearly Examination: 10 September 2024 to 27 September 2024 Second Term Resumes: 30 September 2024</p>				
<p>V October 2024</p>	<p>18</p>	<ul style="list-style-type: none"> • Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built in functions/ methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted() 	<p>To enhance problem solving and programming skills with extensive programming through Dictionary concept</p>	<p>Role Play Activity</p>



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<p>VI November 2024</p>	<p>19</p>	<ul style="list-style-type: none"> ● Practical work of List, Tuple and Dictionary continued. ● Introduction to Python modules: Importing module using ‘import ’ and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()). Presentation making on various encoding schemes. 	<p>To understand the concept of built in modules to introduce the concept of reusability of code</p>	<p>Practical implementation of modules through programs</p>
<p>VII December 2024</p>	<p>19</p>	<ul style="list-style-type: none"> ● Unit II: Computational Thinking and Programming-I ● Introduction to Problem-solving: Steps for Problem solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition ● Unit I: Computer Systems and Organisation ● Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB) ● Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software ● Operating System(OS): functions of the operating system, OS user interface ● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan’s laws, Logic circuits 	<p>Writing of Algorithms to understand program. Making Flow charts and pseudo codes of various programs To recognize the various parts of a computer system and to understand the functionality of OS Real life case study questions based on problem solving Practical Draw and explain the IPO cycle and Memory chart in MSWord</p>	<p>Real life case study questions based on problem solving</p> <p>Draw and explain the IPO cycle and Memory chart in MSWord</p>
<p>Winter Break: 30 December 2024 to 7 January 2025</p>				
<p>VIII January 2025</p>	<p>18</p>	<ul style="list-style-type: none"> ● Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems ● Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32) <p>Unit III: Society, Law and Ethics</p> <ul style="list-style-type: none"> ● Digital Footprints ● Digital Society and Netizen: net etiquettes, communication etiquettes, 	<p>To understand the use of Boolean Logic and to convert one Number System to another. To understand the various encoding schemes.</p>	<p>Presentation making on various encoding schemes.</p> <p>Article Writing on Societal Impact of IT explaining Digital</p>



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	<p>social media etiquettes</p> <ul style="list-style-type: none">● Data Protection: Intellectual property rights (copyright, patent , trademark), violation of IPR(plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)● Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying● Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying.● Safely accessing web sites: malware, viruses, trojans, adware● E-waste management: proper disposal of used electronic gadgets● Indian Information Technology Act (IT Act)● Technology & Society	<p>Students will learn the Importance of IT, its Impact in our daily life and various cyber crimes</p> <p>To understand the need of cyber safety and how to reduce, reuse and recycle ewaste</p>	<p>footprints, society & Netizen, Data Protection, cyber crime etc.</p> <p>Debate on Pros and Cons of E-waste management</p>
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Syllabus Completion: 31 January 2025

Revision Annual Examination :3 February 2025 to 6 February 2025

Annual Examination : 7 February 2025 to 21 February 2025