

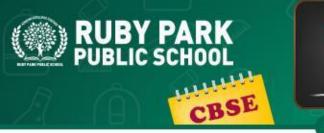








MONTH	LITERATURE READER	WRITING	GRAMMAR	MAIN COURSE
APRIL	Two Gentlemen of Verona	Email	Tenses	Health and Medicine
	The Frog and th	e Nightingale		
MAY	Mrs. Packletide's Tiger	Email (contd.)	Tenses (contd.)	Education
JUNE		PERIODI	CTEST 1	
JUNE	A Shady Plot Neither Marble, nor the Gilded Monuments	Formal letter	Subject Verb Concord	Science
	The Letter Ozymandias		Modals	
JULY	Potol Babu, Film Star	Factual description	Reported speech Sentence	
	The Dear Departed Virtually True		Reordering	
	Snake	Magazine article	Gap filing, Editing or Omission	Travel & Tourism





Session: 2024 - 25



AUGUST	REVISION FOR PERIODIC TEST-2, PT2 EXAMINATION						
AUGUST	PERIODIC TEST-2						
SEPTEMBER							
SEPTEMBER	The Rime of the Ancient Mariner	Clauses National					
OCTOBER	Julius Caesar	Revision	Determiners	Revision			
PERIODIC TEST-3							
NOVEMBER	Julius Caesar (contd.)	Revision	Revision	Revision			
	Board Syllabus completion						
DECEMBER	PRE BOARDS & REVISION						
JANUARY		PRACTIC	E TEST				



Syllabus

MONTH	LANGUAGE	LITERATURE		
APRIL	अपठितगद्यांश, अनुच्छेदलेखनसमास, वाक्यरूपांतरण, मुहावरे	बड़ेभाईसाहब, साखी-कबीर		
MAY		पद-मीरा		
JUNE	PT-1 EXA	MINATION		
JUNE	पदबंध, सूचनालेखन	तताँरावामीरोकथा, अबकहाँदूसरेकेदुःखसेदुखीहोने वाले, पर्वतप्रदेशमेंपावस		
JULY	औपचारिकपत्र, लघुकथा	पतझड़मेंटूटीपत्तियाँ, मनुष्यता, करचलेहमफ़िदा, हरिहरकाका		
AUGUST	विज्ञापनलेखन, ईमेल	कारतूस, सपनोंकेसेदिन , तोप		
	REVISION FOR PT-2 EXAMINATION			
SEPTEMBER	PT- 2 EXAMINATION			
SEPTEMBER	लघुकथालेखन, पदबंध, मुहावरे, समास (पुनरावृत्ति)	टोपीशुक्ला, डायरीकाएकपन्ना		
OCTOBER	सूचनालेखन, विज्ञापनलेखन, वाक्य-रूपांतरण (पुनरावृत्ति)	तीसरीकसमकेशिल्पकारशैलेन्द्र , आत्मत्राण		
NOVEMBER	PT- 3 EXAMINATION			
NOVEMBER	Board Syllabus completion			
DECEMBER	PRE BOARD			
DECEMBER	REVISION			
JANUARY	PRACTICE TEST			

CBSE Session: 2024 - 25 2ND LANGUAGE-BENGALI

Syllabus

Class X

MONTH	LANGUAGE	LITERATURE			
APRIL	ব্যাকরণ–ব্যঞ্জনসন্ধি	জ্ঞানচক্ষু(গদ্য)			
	সাধুচলিতভাষা	তিনপাহাড়েরকোলে (কবিতা)			
	নির্মিতি–বোধপরীক্ষণ				
	অনুচ্ছেদরচনা				
MAY	ব্যাকরণ–ব্যঞ্জনসন্ধি	গল্পগুচ্ছ–পোস্টমাস্টার			
JUNE	PERIODIC TEST - 1				
JUNE	নির্মিতি – সম্পাদকীয়পত্র	আয় আরো বেঁধে বেঁধে থাকি (কবিতা)			
	ব্যাকরণ–বিসর্গসন্ধি	গল্পগুচ্ছ–পোস্টমাস্টার			
JULY	ব্যাকরণ – বাক্যপরিবর্তন – সরল , জটিল , যৌগিক	আলোবাবু (গদ্য)			
		একাকারে (কবিতা)			
		গল্পগুচ্ছ – কাবুলিওয়ালা			
AUGUST	REVISION FORPERIODIC TEST - 2				
AUGUST-	PERIODIC TEST - 2				
SEPTEMBER					
SEPTEMBER	ব্যাকরণ – সমাস (দ্বন্দ্ব , অব্যয়ীভাব , কর্মধারয়)	অদলবদল (গদ্য)			
		গল্পগুচ্ছ – দানপ্রতিদান			
OCTOBER	ব্যাকরণ – সাধুচলিতভাষা	বহুরূপী (গদ্য)			
	নির্মিতি - অনুচ্ছেদ	অস্ত্রেরবিরুদ্ধেগান (কবিতা)			
	PERIODIC TEST - 3				
NOVEMBER	Board syllabus comp	letion & revision			
DECEMBER	PRE BOARD & REVISION				
JANUARY	PRACTICE TEST				







Session: 2024 - 25 MATHEMATICS

MONTH	TOPIC	SUB - TOPIC
APRIL	Real Numbers	Fundamental Theorem of Arithmetic, Proof of irrationality
МАҮ	Polynomials	Zeroes of a Polynomial, Relationship between Zeroes and coefficients of quadratic polynomial
JUNE	PT	-1 EXAMINATION
	Trigonometry	Introduction to Trigonometry, Trigonometric Ratios, Some Specific Angles Trigonometrical Identities.
JUNE	Heights and Distances	Concept of Angle of Elevation, Angle of Depression, Heights and Distances.
	Quadratic Equation	Standard form of quadratic equation. Solution of a quadratic Equations (only real roots) by Factorisation and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.
JULY	Circles	Theorems based on Tangent properties of a circle.
	Triangles	Similar Figures, Similarity of Triangles and its criteria
	Pair of Linear Equation In Two Variables	Graphical Method, Solution of a pair of Linear equations, consistency/ inconsistency. Algebraic Methods (Substitution Method, Elimination Method) Simple situational problems.





Session: 2024 - 25

CBSE



AUGUST	Statistics	Calculation of Mean, Median and Mode for grouped frequency distribution			
AUGUSI	REVISIO	N FOR PT-2 EXAMINATION			
AUGUST	PT-2 EXAMINATION				
SEPTEMBER		Identification of a series as AP., nth term of an AP., Sum of first 'n' terms of an			
		AP and their application in solving daily life problem.			
	Geometry	Concepts of coordinate geometry, graphs of linear equations, Distance Formula, Section Formula (internal division)			
	Probability	Probability – A theoretical Approach			
OCTOBER	Area Related to Circles	Area of sectors and segments of a circle. Problem based on areas and perimeter / circumference of the above said plane figures (in calculating area of a segment of a circle, problem should be restricted to central angle of 60° , 90° and 120°)			
	Surface Area & Volumes	Surface area and volumes of combination of figures – cube, cuboid, right circular cylinder, cones, sphere and hemisphere			
NOVEMBER	PT-3 EXAMINATION				
DECEMBER		PRE BOARD			
		REVISION			
JANUARY		PRACTICE TEST			



Session: 2024 - 25 PHYSICS

MONTH	UNIT	TOPIC	SUB-TOPIC	PRACTICALS
APRIL	1	Light	Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required),magnificatio n. Refraction; Laws of refraction, refractive index.	
			Refraction of light by spherical lens; Image formed by spherical lenses;	To determine the focal length of a concave mirror, by obtaining the image of a distant object;
MAY	1	Light	Lens formula (Derivation not required); Magnification. Power of a lens	To determine the focal length of a convex lens, by obtaining the image of a distant object. To trace the path of a ray of light through a rectangular glass slab for different angles of incidences; Measure the angle of incidence, angle of refraction, angle of emergence and interpret the results;
JUNE			PERIODIC	TEST-I



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JUNE	2	Human Eye and colourful world	Session: 2024 - 25 Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses	
JULY	2		Refraction of light through a prism,	To trace the path of a light ray through a glass prism
JULY	2	Human Eye and colourful world	dispersion of light, scattering of light, applications in dailylife (excluding colour of the sun at sunrise and sunset).	
AUGUST	3	Electricity	Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life.	To study the dependence of Potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V &I.
AUGUST		R	EVISION FOR PERI	ODIC TEST-II
AUGUST- SEPTEMBER			PERIODIC TES	ST-II



Session: 2024 - 25

CBSE



SEPTEMBER 3 Electricity Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R. To determine the equivalent resistance of two resistors when connected in parallel. OCTOBER 4 Magnetic Effects of Electric Current Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying conductor, Fleming's Left Hand Rule Magnetic Test-III Magnetic PERIODIC TEST-III Direct current	
OCTOBER 4 Effects of Electric Current imaginetic netid, netid lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule PERIODIC TEST-III	SEPTEMBER 3
Magnetic	OCTOBER 4
Magnetic	 Р
NOVEMBER4Imagnetic EffectsDirect current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits.	NOVEMBER 4
NOVEMBER REVISION	NOVEMBER
DECEMBER PRE-BOARD	DECEMBER
JANUARY PRACTICE TEST	JANUARY





Session: 2024 - 25 CHEMISTRY

MONTH	UN IT	TOPIC	SUB TOPIC	PRACTICAL EXPERIMENT
APRIL	1	Chemical Reactions and Equations	Chemical reaction - definition, characteristics of chemical reaction with examples. Writing a chemical equation, skeletal equation, balanced chemical equation, balancing of chemical equations.	To perform and observe different types of chemical reactions.
MAY	1	Chemical Reactions and Equations	Types of chemical reactions - combination, exothermic and endothermic reactions, decomposition, displacement, double displacement, oxidation and reduction. Corrosion, rancidity.	
JUNE				
	2	Acids, Bases and Salts	Introduction to acids, bases, indicators. Understanding the chemical properties of acids and bases. Understanding the chemical properties of acids and bases (continued). What do all acids and all bases have in common? Dilution of acids and bases. Strength of acids and basic solutions.	To study the properties of acids and bases.

	RUBY P PUBLIC SC	AR CHO	K OL BSE	Syllabus Class X Session: 2024 - 25			
	JULY	2	Acids, Bases and Salts	Importance of pH in everyday life. Salts - family of salts, pH of salts, chemicals from common salt, chlor-alkali process, bleaching powder, baking soda, washing soda, water of crystallization in salts, Plaster of Paris.	To find the pH of sample solutions by using pH paper/ universal indicator.		
		3	Metals and Non-metals	Introduction, physical properties of metals and non-metals. Chemical properties of metals (reactions), the reactivity series. How do metals and non-metals react? Properties of ionic compounds.	To study the reactivity of metals using the metals and their salt solutions.		
	AUGUST	3		Occurrence of metals, extraction of metals, refining of metals. Corrosion of metals and its prevention, alloys.			
			REVISION OF PERIODIC TEST - 2				
				PERIODIC TEST - 2			
SI	SEPTEMBER	4	Carbon and its Compound s	Importance of carbon, catenation, bonding in carbon - the covalent bond, versatile nature of carbon. Saturated and unsaturated carbon compounds. Saturated and unsaturated carbon compounds			

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	CHO	BSE	Syllabus Class X Session: 2024 - 25			
			(continued), chains, branches and rings present in carbon compounds. Homologous series, functional groups.			
OCTOBER	4	Carbon and its Compound s	Hydrocarbons, isomerism. Nomenclature of carbon compounds. Chemical properties of carbon compound (reactions). Some important carbon compounds - Ethanol and Ethanoic acid. Soaps and detergents.	To study the properties of acetic acid. To study the comparative cleaning capacity of a sample of soap in soft and hard water.		
NOVEMBER	PERIODIC TEST - 3					
	REVISION					
DECEMBER		PRE-BOARD & REVISION				
JANUARY			PRACTICE TEST			

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BIOLOGY

MONTH	UNIT	CHAPTER	SUB-TOPIC	PRACTICAL
APRIL	1	Life Processes	 What are life processes? Autotrophic nutrition Heterotrophic nutrition 	Preparing a temporary mount of a leaf peel to show stomata.
JUNE		PER	RIODIC TEST 1 EXAMI	NATION
MAY	1	Life Processes	• Respiration	
JUNE	1	Life Processes	TransportationExcretion	
JULY	2	Control and Coordination	 Animal-Nervous System Coordination in plants Hormones in animals 	To show experimentally that CO2 is given out during respiration (animals and plants)
AUGUST	3	How do Organism Reproduce?	 Do organisms create exact copies of themselves? Modes of reproduction used by single organisms 	Studying Budding in Yeast and Binary fission in <i>Amoeba</i> sp. From prepared slides.





Session: 2024 - 25



AUGUST -	REVISION FOR PT 2 EXAMINATION				
SEPTEMBER	PERIODIC TEST 2 EXAMINATION				
SEPTEMBER	3	How do Organism Reproduce?	 Sexual reproduction in Plants Sexual reproduction in Humans Reproductive Health 	To identify the different parts of an embryo of a dicot seed (gram)	
	4	Heredity	 Accumulation of variation during reproduction Heredity – Monahybrid and Dihybrid Crosses Sex Determination 		
OCTOBER	5	Our Environment	 Ecosystem-What are its components? How do our activities affect the environment? 		
NOVEMBER	PERIODIC TEST 3 EXAMINATION				
	REVISION				
DECEMBER	PRE-BOARD EXAMINATION				
JANUARY		PRACTICE TEST			



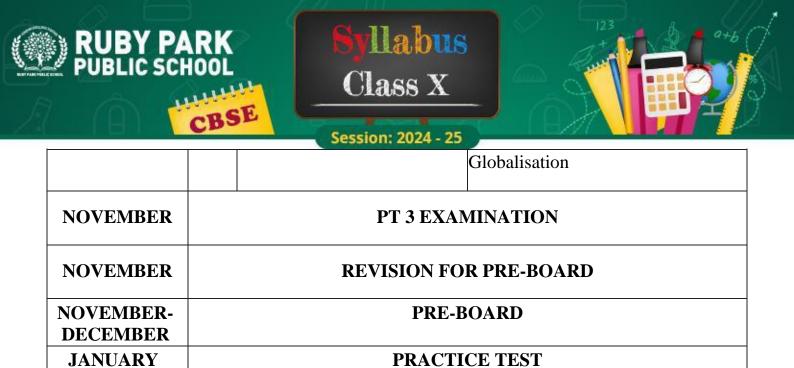






MONTH	UNIT	TOPICS	SUB TOPICS		
		DEVELODMENT	• What Development Promises - Different people different goals		
APRIL	1	DEVELOPMENT	 Income and other goals 		
			National Development		
			• How to compare different countries or states?		
MAY	1	DEVELOPMENT	Income and other criteria		
			Public Facilities		
			 Sustainability of development 		
JUNE	2	SECTORS OF INDIAN	Sectors of Economic Activities		
		ECONOMY	• Comparing the three sectors		
			• Primary, Secondary and Tertiary Sectors in India		
JUNE	PT 1 EXAMINATION				
JULY	2	SECTORS OF INDIAN ECONOMY	• Division of sectors as organized and unorganized.		
			Sectors in terms of ownership: Public and Private Sectors		

		Session: 2024 - 25	
		MONEY AND CREDIT	• Money as a medium of exchange
			• Modern forms of money.
	3		 Loan activities of Banks.
			• Two different credit situations.
AUGUST		CONSUMERRIGHTS	• Terms of credit.
			• Formal sector credit in India.
	4		• Self Help Groups for the Poor
	4	Work.	Gets familiarized with the rights
			and duties as a consumer; and legal measures available to protect from
			being exploited in
			markets. Every student has to compulsorily undertake the project
			on Consumer Rights/Awareness
AUGUST		REVISION FOR P 1	2 EXAMINATION
AUGUST - SEPTEMBER		PT 2 EXAN	MINATION
SEPTEMBER -	5		• What is globalization?
OCTOBER	5	THE INDIAN ECONOMY	 Factors that have enabled
			Globalisation.
			• TO BE EVALUATED IN THE BOARD EXAMINATION
			FOR INTER-DISCIPLINARY PROJECT
			• Production across the countries
			• Chinese toys in India
			 World Trade Organisation
			• The Struggle for a Fair









Session: 2024 - 25 GEOGRAPHY

MONTH	UNIT	TOPICS / CHAPTERS	SUB TOPICS
APRIL	1	RESOURCE AND DEVELOPMENT	 Concept Development of Resources Resource Planning Resource Planning in India, Conservation of Resources Land Resources Land Utilization Land Use Pattern in India Land Degradation and Conservation Measures Soil as a Resource - Classification of Soils, Soil Erosion and Soil Conservation
MAY	2	FOREST RESOURCES	 Conservation of forest and wildlife in India Types and distribution of forests and wildlife resources Community and Conservation
JUNE		PT 1 EXA	AMINATION
JUNE	3	WATER RESOURCES	 Water Scarcity and The Need for Water Conservation and Management Multi-Purpose River Projects and Integrated Water Resources Management Rainwater Harvesting
JULY	4	AGRICULTURE	 Types of Farming - Primitive Subsistence, Intensive Subsistence, Commercial Cropping Pattern - Major Crops, Food Crops other than Grains, Non- Food Crops Technological and Institutional Reforms

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'n Ô.	C	BSE Session: 202		
JULY	5	MINERALS AND ENERGY RESOURCES	 What is a mineral? Mode of occurrence of Minerals- Where are these minerals found? Ferrous Minerals, Non-Ferrous Minerals, Non- Metallic Minerals, Rock Minerals Conservation of Minerals Energy Resources – Conventional Sources of Energy, Non-Conventional Sources of Energy Conservation of Energy Resources 	
AUGUST	6	MANUFACTURING INDUSTRIES	 Importance of Manufacturing - Industrial Location Classification of Industries. 	
AUGUST		REVISION FOR	PT-2 EXAMINATION	
AUGUST- SEPTEMBER		PT 2 EXA	MINATION	
SEPTEMBER – OCTOBER	6	MANUFACTURING INDUSTRIES	 Industrial pollution and environmental degradation. Control of Environmental Degradation 	
NOVEMBER		LIFELINES OF NATIONAL ECONOMY	ONLY MAP POINTING TO BE EVALUATED IN BOARD EXAMINATION	
	7		INTER DISCIPLINARY PROJECT (INTERNAL ASSESSMENT)	
NOVEMBER		PT 3 EXA	AMINATION	
DECEMBER	PRE-BOARD			
JANUARY	PRACTICE TEST			

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Syllabus

Class X

MONTH	UNITS	TOPICS	SUB TOPICS
APRIL	1	Power Sharing	Case Studies of Belgium and Sri Lanka
			Why Power Sharing is Desirable?
			Forms of Power Sharing
APRIL	2	Federalism	What is Federalism?
			What makes India a Federal Country?
			How is Federalism practiced?
			Decentralisation in India
MAY	1	The Rise of Nationalismin Europe	The French RevolutionandtheIdeaofNation
			The Making of Nationalism in Europe
			TheAgeofRevolutions:1830-1848
			The Making of Germany and Italy
			Visualizing the Nation
			Nationalism and Imperialism
JUNE		PERIOI	DIC TEST I
JUNE	2	NationalisminIndia	The First WorldWar,Khilafatand Non-Cooperation
			Differing Strands within the Movement
			Towards Civil Disobedience
			The Sense of Collective Belonging
JULY	4	Political Parties	Why do we need Political Parties?
			How many Parties should we have?
			National Political Parties





	CBS	Class X E Session: 2024 - 2	
AUGUST	5	Print Culture and the Modern world	State PartiesChallenges to Political PartiesHow can Parties be reformed?The First Printed BooksPrint Comes to EuropeThe Print Revolution and itsImpactThe Reading ManiaThe Nineteenth CenturyIndia and the world of PrintReligious Reforms and PublicDebatesNew forms of PublicationPrint and Censorship
AUGUST	3	Gender, Religion and Caste	Gender and Politics Religion, Communalism and Politics Caste and Politics
AUGUST- SEPTEMBER		PERIOD	IC TEST II
SEPTEMBER	4	The Age of Industrialisation (This chapter will be only tested for Periodic Assessment)	Before the Industrial RevolutionHand labour and Steam powerIndustrialisation in the coloniesFactories Come up







	CBa	Session: 2024 - 2	5	
			The Peculiarities of Industrial growth	
			Market for goods	
OCTOBER	5	Outcomes of Democracy	How do we assess democracy's outcome? Accountable, responsive and legitimate	
			government Economic Growth and Development Reduction of Inequality and Poverty	
OCTOBER	3	The Making of a Global World (To be assessed through inter disciplinary project with Geography and Economics)	The Pre-Modern World (only this sub-topic will be assessed in Board exam) The Nineteenth Century The Inter- war Economy Rebuilding a World Economy: The Post – war Era	
NOVEMBER		PERIOD	IC TEST III	
DECEMBER	PRE-BOARD EXAMINATION			
JANUARY	PRACTICE TEST			









MONTH	UNIT	TOPIC	SUB- TOPIC
APRIL	1	INTRODUCTION TO INTERNET	 Basics of Internet Internet Terminologies Internet Protocols Internet Services
	2	INTRODUCTION TO HTML	Fundamentals of HTMLCreating a Web Page
	2	SETTING THE PAGE APPEARANCE	 Setting the Page Properties Organising Text on a Web Page
MAY	2	SETTING THE PAGE APPEARANCE	• Organising Text on a Web Page
JUNE		PERIODIC TEST	- 1
JUNE	2	FORMATTING TEXT	 Inserting Paragraphs and Changing Fonts Emphasizing Text/ Applying Text Style
	2	CREATING LISTS	 Creating an Unordered List Creating an Ordered List Creating a Nested List Creating a Definition List
JULY	2	NAVIGATING THROUGH WEB PAGES	 Linking Web Pages Linking Sections of a Web Page
	2	ADDING IMAGES, TABLE, AUDIO AND	 Adding Images in a Web Page Making Images as Hyperlinks

RUBY P	CBSE	Syllabus Class X Session: 2024 - 25	
		VIDEO	 Adding Tables in a Web Page Merging Table Cells Enhancing the Appearance of a Table Embed Audio and Video in an HTML Page.
	2	CREATING A FORM	 Creating the Structure of a Form Adding Data Input Elements Adding Data Selection Elements Adding Buttons
	2	CASCADING STYLE SHEETS	 Cascading Style Sheets and its Advantages Types of CSS Format of Internal CSS Style Rule Color and Background Properties in CSS Border, Margin, Padding, Outline, Font, Text Properties and Content Alignment in CSS Constraints in CSS
AUGUST	3	CYBER ETHICS	 Netiquette Software Licenses and Open- Source Software Movement Plagiarism Intellectual Property Rights Digital Property Rights Freedom of Information and the Digital Divide E- Commerce : Privacy, Fraud ,







Session: 2024 - 25

		Session: 2024 - 25	Secure Data Transmission
AUGUST			
		REVISION FOR	PERIODIC TEST - 2
AUGUST - SEPTEMBER		PERIOI	DIC TEST 2
	4	FUN WITH SCRATCH	 Basics of Scratch Understanding Control Blocks Creating Games, Animated Images, Stories and Songs
SEPTEMBER		INTRODUCTION TO PYTHON (SPECIAL COVERAGE PYTHON MODULE -1)	 Data types in Python Using Variables in Python Lists in Python
		STRINGS IN PYTHON (SPECIAL COVERAGE PYTHON MODULE -2)	 Working with Strings Converting a String
OCTOBER	5	PROGRAMMING WITH PYTHON (PYTHON MODULE- 2)	 Python data types and variables Conditionals: if, if- else and elif Statements
		REVISION	
		PERIODIC TEST	3
NOVEMBER	5	PROGRAMMING	Nested Conditional Construct



Session: 2024 - 25



		Session: 2024 - 25	
		WITH PYTHON	
DECEMBER	5	PROGRAMMING WITH PYTHON	• Loops in Python: for and while
JANUARY	1	ARTIFICIAL INTELLIGENCE – EXCITE ARTIFICIAL INTELLIGENCE – RELATE	 Introduction to AI Human and Machine Interactions: AI based Games (based on different AI domains) Three Domains of AI Applications of AI in daily lives Smart Homes and Human – Machine Interactions
FEBRUARY	REVISION FOR ANNUAL EXAMINATION ANNUAL EXAMINATION		



Syllabus

Class X

MONTH	CHAPTER	CORE CONCEPTS	
APRIL	Foundational concepts of AI	Session: What is Intelligence?	
		 Role of Intelligence in Our Lives Types of Intelligence 	
		 What is Decision-Making Role of Intelligence in Decision-Making 	
		 What is AI? What is NOT AI? How Machines become Intelligent 	
		Session: Introduction to AI and related terminologies	
	Basics of AI: Let's Get Started	 AI Technologies Domains of AI Real Life AI Applications Ethical Issues Around AI AI bias and AI Access 	
МАҮ	AI Project Cycle: Introduction Problem Scoping	Session: Introduction to AI Project Cycle	





	Se	ssion: 2024 - 25	
	Data Acquisition Data Exploration	 Stages of AI Project Cycle Choosing a Theme and Topic of AI Project Identify the Problems and Around the Selected Topics Define problem statement and set actions Significance of Data Types of Data used in AI Projects Data Acquisition Ways to Visualise Data 	
	AI Project Cycle: Modelling Evaluation	 Categories of AI Models Supervised Learning Unsupervised Learning Semi-Supervised Learning Reinforcement Learning (Optional) Model Evaluation Metrics 	
JUNE	PERIODIC TEST- 1		
JUNE	AI Project Cycle: Modelling Evaluation	Artificial Neural Network (ANN)	
	NATURAL LANGUAGE PROCESSING: Introduction Chatbots	 Session: Introduction to Natural Language Processing What is NLP? NLP Applications Revisiting AI Project Cycles for an NLP Application Understanding Chatbots 	
	NATURAL LANGUAGE PROCESSING: Language Differences Concepts of NLP	 Human Language vs. Computer Language Concepts of NLP Text Normalization Bag of Words Hands-on: →TFIDF (Optional) → NLTK(Optional) 	





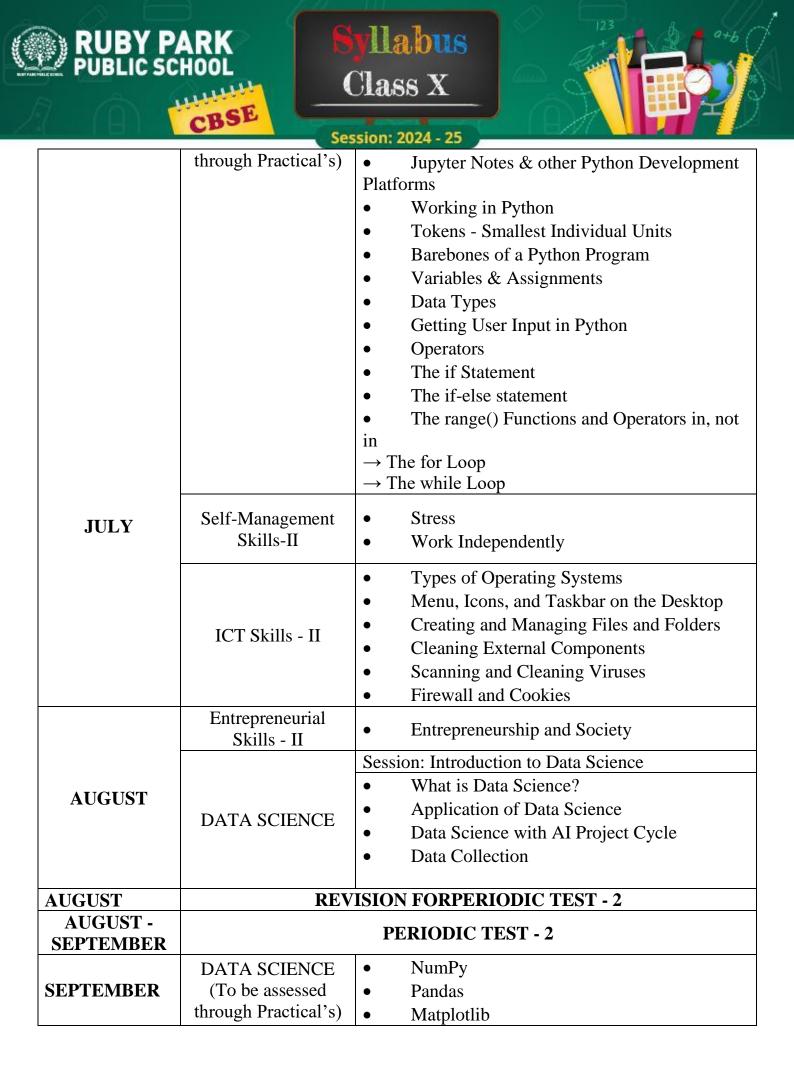
Session: 2024 - 25

Session: Introduction to Model Evaluation



	EVALUATION:	
	Introduction	Concept of Evaluation
		• Different types of Evaluation techniques:
		Under Fit, Perfect Fit, OverFit
		Session: Model Evaluation Terminologies
JUNE	EVALUATION:	• The Scenario - Prediction, Reality, True
	Model	Positive, True Negative, False Positive,
	Evaluation	False Negative
	Terminology	Confusion Matrix
		• Activity- to make a confusion matrix
		based on data given for Containment
		Zone Prediction Model
	EVALUATION:	
	~	

	Model Evaluation Terminology	 Positive, True Negative, False Positive, False Negative Confusion Matrix Activity- to make a confusion matrix based on data given for Containment Zone Prediction Model
	EVALUATION: Confusion Matrix	Session & Activity: Confusion Matrix
JULY	EVALUATION: Evaluation Methods	Session: Evaluation Methods • Accuracy • Precision • Recall • Which Metric is Important? - Precision or Recall • F1 Score
	ADVANCE PYTHON (To be assessed	Session: Advance Python









Sess	ion:	2024	- 25

		Basic Statistics & Data Visualisation
	PYTHON FOR DATA SCIENCE	• K-nearest Neighbour Model (Optional)
		Body language
	Communication Skills - II	Communication Cycle
		Barriers to Effective Communication
		Principles of Effective Communication
	SKIIIS - II	• Parts of a Sentence and Speech
		Articles & Phrases
		Art of Storytelling
	Green Skills - II	• Sustainable Development
		Session: Introduction to Computer Vision
		• What is CV?
	COMPUTER VISION	Application of CV
		Concepts of CV
OCTOBER		Python OpenCV
		Convolution Operator(Optional)
		Introduction to CNN (Optional)
		Hands-On:
		Image Processing Using OpenCV
	PER	IODIC TEST - 3
NOVEMBER	BOARD SYLLABUS COMPLETION & REVISION	
DECEMBER	PRE-BOARD & REVISION	
JANUARY	PRACTICE TEST	