

XAVIER SCHOOL GAMHARIA
Syllabus for the Academic session (2023-24)
Class- IX
Subject – English Literature

Name of the books : I) Treasure Chest

II) Julius Caesar

Exam	Chapters	Key Concept	Project	Activity
1 st Unit	<p>A Work of Artifice(Poem)</p> <p>Bonku Babu's Friend (Short Story)</p> <p>Julius Caesar (Drama) : Introduction Act I; scene (i)</p>	<p>Compare and understand how society subjugate women to fit the 'accepted' idea of beauty.</p> <p>Identify poetic devices like metaphor and allusion</p> <p>Recognise the underlying theme of friendship</p> <p>Identify and stand against contemptuous behaviour</p> <p>Learn how to approach Shakespeare's play</p> <p>Understand the historical background</p> <p>Comprehend the plot</p> <p>Analyse the characters</p> <p>Make a picture of Elizabethan society</p>	<p>List the names of Roman Historical plays written by Shakespeare and write the summary of any one play.</p>	<p>Prepare a speech on the condition of Indian Women after independence.</p>
1 st Semester	<p>Skimbleshanks : The Railway Cat (Poem)</p> <p>Oliver Asks for More (Short Story)</p> <p>Julius Caesar – Act I</p>	<p>Analyse the general observation of a traveller</p> <p>Identify the importance of perfection</p> <p>Explore the autobiographical elements in the story</p> <p>Recognise all the principal characters</p>		<p>To speak : Importance of perfection in any endeavour</p>

	Scene (ii) Scene (iii)	Figure the building of the conspiracy against Caesar Examine the importance of super natural happenings		
2 nd Unit	I Remember, I Remember (Poem) A Doctor's Journal Entry (Poem) The Model Millionaire (Short Story) Julius Caesar – Act 2; scene (I)	Explore the joy of childhood Differentiate between the past and present Identify the physical, emotional and psychological trauma suffered by victims of Hiroshima Deduce how appearance can be deceptive Reason true beauty and generosity Identify the mental conflict of characters	Write a diary entry about any incident which touched you or changed your perception.	Write a poem by your own describing your childhood memories. Mention the literary devices used.
IInd Semester	The Night Mail (Poem) The Home Coming (Short Story) The Boy who Broke the Bank (Short Story) Julius Caesar – Act 2; Scenes (ii) and (iii)	Identify the common imageries and language Discern individuality of citizens Compare and contrast the country-life and the city-life Recognise the state of confusion during teenage Appreciate and cultivate listening skill Identify the intense atmosphere of supernatural terror Justify the use of soliloquy Analyse the female characters Perceive the growing anxiety		To speak : 'City life is better than village life '

XAVIER SCHOOL GAMHARIA
Syllabus for the Academic session (2023-24)
Class- IX
Subject :-English Language

Name of the book : Total English

EXAM	CHAPTERS	KEY CONCEPT	PROJECT	ACTIVITY
1 st Unit	1. A. Interchange of sentences B. Composition. C. Notice and Email Writing. D. Practice Paper 1. 2. A. Time and Tense – I B. Beginning and Ending. C. An approach to comprehension. D. Practice Paper 2. 3. A. Agreement of the verb with its subject. B. Subject Matter and its Organization. C. Personal Letters. D. Practice Paper 3. 4. A. Time and Tense – I B. Type of Essays. C. Formal Letters. D. Practice Paper 4	<ul style="list-style-type: none"> • Understanding the conversion of sentences to various forms • Developing the Understanding of Notice and Email writing. • Enable the students to understand the various forms of verb and their usage • Students will understand the use of verb in consideration with noun. • Explicit Understanding of the Letter writing. • Students will understand the use of Verb in regards to the time and the arrangement of the sentences. Understanding the Essay Writing. 		Bring out the difference between Notice Writing and Email Writing.
1 st Semester	5. A. The sequence of the Tense. B. Picture Composition.	<ul style="list-style-type: none"> • To enrich the understanding of the Subject, 		

	<p>C. Comprehension - Words in context. D. Practice Paper 5</p> <p>6. A. Active and Passive Voice. B. Stories. C. Letters to Newspapers. D. Practice Paper 6.</p> <p>7. A. Comparison of Adjective. B. Narrative Composition. C. Precision in Comprehension. D. Practice Paper 7.</p> <p>8. A. Word Order. B. Description. C. Summary Writing. D. Practice Paper 8 (Including the Unit 1 portion)</p>	<p>verb ,object arrangement.</p> <ul style="list-style-type: none"> • Enhancing the creative writing skill. • To enable the students understand the sentence change when object becomes important. • To improve the cognitive skill of the students • Students will be able to understand the various degrees and their uses. • Understanding of the placement of the adverbs as per their requirements 	<p>Write a story, giving proper title to it with picture images, keeping in mind the following points.</p> <p>a. Story should have good plot. b. characters and description should be clear and introduced in an effective manner c. story should have a purpose. d. At the end mention the moral of the story.</p>	<p>Narrate a heart winching event that you have experienced.</p>
2 nd Unit	<p>9. A. Articles B. Argumentative Composition. C. Letters of Apology and Explanation. D. Practice Paper 9.</p> <p>10. A. Direct and Indirect Speech. B. Critical Composition C. Application.</p>	<ul style="list-style-type: none"> • To develop a functional understanding of the grammar, structure and idioms of the language. • Understanding of the sentence transformation 		<p>Debate in the class regarding E-Invitation is better than paper Invitation</p>

	<p>D. Practice Paper 10.</p> <p>11. A. Conditional Sentences. B. Factual Writing C. Summary Writing – Objectives. D. Practice Paper 11.</p> <p>12. A. Preposition B. Style. C. Invitation D. Practice Paper 12.</p>	<p>when said to 3rd person and vice versa.</p> <ul style="list-style-type: none"> • To develop the capacity to read efficiently and access information effectively. <p>Understanding the format, technique and methodology of writing.</p>		
2 nd Semester	<p>13. A. Synthesis of Sentences. B. Paragraph Writing. C. Letters Of Persuasion. D. Practice Paper 12</p> <p>14. A. Transformation of sentences -I B. Characters C. Selective Summary D. Practice Paper 14</p> <p>15. A. Transformation of sentences -II B. Humorous Writing C. Letters of Complaint D. Practice Paper 14 (Including the Unit 2 portion)</p>	<ul style="list-style-type: none"> • To develop the skill of coherent writing • To enrich the understanding of the Subject, verb , object arrangement. • Enhancing the creative writing skill. • To develop a functional understanding of the grammar, structure and idioms of the language. 	<p>Make a modal on Preposition, covering adequate number of words.</p>	<p>Do a role play based on any scenes of Julius Caesar .</p>

Subject-Hindi

Name of the book- साहित्य सागर , सरस्वती व्याकरण सुमन

सत्र	पाठ्यक्रम	प्रमुख उद्देश्य साहित्य	प्रमुख उद्देश्य व्याकरण	परियोजना कार्य / गतिविधि
1st Unit	1. बात अठन्नी की गद्यभाग 2. साखी पद्यभाग	विद्यार्थीगण सीखेंगे:- <ul style="list-style-type: none"> • सामाजिक विषमता • संवेदनशीलता • त्याग व सहयोग का भाव • आध्यात्मिक मूल्य • आशयस्पष्टीकरण • गुरु का महत्व • अमूर्तचिंतन 	व्याकरण-सम्बन्धित प्रश्न- <ul style="list-style-type: none"> • पर्यायवाची शब्द • विलोमशब्द • भाववाचक संज्ञा • लिंग परिवर्तन • वाक्य संशोधन मुहावरे , एवं लोकोक्तियाँ	संबंधित विषय पर परिचर्चा
1st semester	1.महायज्ञ का पुरस्कार गद्यभाग 2. स्वर्ग बना सकते हैं)पद्यभाग(3. नेताजी का चश्मा)गद्यभाग(4. वह जन्मभूमि मेरी 5. बात अठन्नी की) गद्यभाग 6. साखी पद्यभाग	<ul style="list-style-type: none"> • परोपकार का भाव • निःस्वार्थता • कर्तव्यपरायणता का भाव • सहयोग करना • निस्वार्थभाव • देशप्रेम • काव्यरस का ज्ञान • देशभक्ति का भाव • आजाद हिन्द फौज का परिचय • शीर्षक की सार्थकता • शहीदों के प्रति आदरभाव • प्रकृति वर्णन • देश के प्रति गौरव का भाव • देश-रक्षा व पर्यावरण संरक्षण • पुनरावृत्ति • पुनरावृत्ति 	. 1.व्याकरण-सम्बन्धित प्रश्न- <ul style="list-style-type: none"> • पर्यायवाची शब्द • विलोमशब्द • भाववाचक संज्ञा • काल परिवर्तन • लिंग परिवर्तन • वाक्य संशोधन • मुहावरे .एवं लोकोक्तियाँ • तत्सम एवं तद्भव • अनेकार्थी शब्द • निबन्ध लेखन • पत्र लेखन • अपठित गद्यांश 	हिंदी विक्रम संवत कैलेंडर के हिंदी मासों के नाम की सूची बनाइए तथा उन महीनों में आने वाले राष्ट्रीय एवं धार्मिक पर्वों का चित्र सहित वर्णन कीजिए।

2nd Unit	<p>1. अपना – अपना भाग्य (गद्यभाग)</p> <p>2. मेघ आए (पद्यभाग)</p> <p>3. बड़े घर की बेटी (गद्यभाग)</p> <p>4. सुर के पद पद्यभाग</p>	<ul style="list-style-type: none"> • परोपकार का भाव • निःस्वार्थता • ऋतु का वर्णन • अमूर्त चिंतन • प्रकृति का मानवीकरण • सामाजिक अव्यवस्था का ज्ञान • संवेदनशीलता • मानवता का भाव • परोपकार और परहित की भावना • संपन्नवर्ग की मनोवृत्ति • सूरदास का परिचय • कृष्ण की बाललीला 	<p>. 1 व्याकरण-सम्बन्धित प्रश्न -</p> <ul style="list-style-type: none"> • पर्यायवाची शब्द • विलोमशब्द • भाववाचक संज्ञा • काल परिवर्तन • लिंग परिवर्तन • वाक्य संशोधन • मुहावरे . एवं लोकोक्तियाँ • अनेक शब्दों के लिए एक शब्द • निबन्ध लेखन • पत्र लेखन • अपठित गद्यांश 	वाचन एवं लेखन अभ्यास कौशल
2 nd Semester (80 Marks)	<p>1. काकी गद्यभाग</p> <p>2. कुण्डलियाँ पद्यभाग</p> <p>गद्यभाग (पाठ (1-6) पद्यभाग पाठ (1-6)</p>	<ul style="list-style-type: none"> • बच्चों की मनोवैज्ञानिक स्थिति • बच्चों का माँ के प्रति स्नेह का भाव • मित्रता का महत्व • कुंडलियों के अर्थ • नीति –वैराग्य का ज्ञान • कुंडलियों का दैनिक जीवन से सम्बन्ध • लेखक का परिचय • आध्यात्मिकता का भाव • पुनरावृत्ति एवं पूर्ववत् ज्ञान 	<p>1 व्याकरण-सम्बन्धित प्रश्न -</p> <ul style="list-style-type: none"> • पर्यायवाची शब्द • विलोमशब्द • भाववाचक संज्ञा • काल परिवर्तन • लिंग परिवर्तन • वाक्य संशोधन • मुहावरे . एवं लोकोक्तियाँ • अनेक शब्दों के लिए एक शब्द • निबन्ध लेखन • पत्र लेखन <p>अपठित गद्यांश</p>	बाल मजदूरी पर एक परियोजना तैयार कीजिए। जिनमें पाँच वर्ष से बारह वर्ष तक के बच्चों का विवरण देते हुए बाल मजदूरी से संबंधित किन्हीं पांच स्थानों के नाम, उनके चित्र तथा मजदूरी का काम दर्शाइए।

Subject :-MATHEMATICS

Name of the book :-

EXAM	CHAPTERS	KEY CONCEPT	PROJECT
1 st Semester	CH-1 Rational and Irrational numbers.	<ul style="list-style-type: none"> • Rational numbers on number line. • rationalisation of irrational number, 	Project: Circumference and area of a circle

	<p>CH-2 Compound Interest. CH-3 Expansion.</p> <p>CH-4 Factorisation.</p> <p>CH-5 Simultaneous Linear equation. CH-6 Problems on Simultaneous eqn.</p> <p>CH-10 Triangle.</p> <p>CH-11 Mid-point Theorem.</p> <p>CH-12 Pythagoras Theorem</p> <p>CH-16 Mensuration</p>	<ul style="list-style-type: none"> • representation of irrational numbers on number line. • Related terms and their definitions, • Calculation of compound interest, • calculation of growth and depreciation. • Expansion of algebraic expression using identity and basic operation on them. • Factorise by taking common factors, factorize using identity, midterm factorization • Solve simultaneous equation by substitution and elimination method. • Solve by addition and subtraction, cross multiplication method. • framing equation and simplifications, word problems. • Basic theorem, angle properties, • Inequality of triangle. Angle sum properties of triangle • Mid point theorem and converse of mid point theorem, its application. • Basic theorem and its application. • Curve surface area , total surface area , • volume of cylinder ,cone ,cube ,cuboid, sphere and hemisphere. 	<p>Summer Vacation Assignment: <u>CH-1 Rational and Irrational numbers.</u></p> <p>Unit Test: Rational & Irrational Numbers Compound Interest</p>
2 nd Semester	<p>CH-7 Quadratic equation.</p> <p>CH-8 Indices.</p> <p>CH-9 Logarithms.</p>	<ul style="list-style-type: none"> • Solving quadratic equation by factorization • Basic laws and its applications. • Basic laws and its applications. 	<p>Assign: Conduct a survey of a group of students and represents it graphically (Height, Weight, no of family</p>

<p>CH-13 Rectilinear figures</p> <p>CH-14 Theorems on Area</p> <p>CH-15 Circle .</p> <p>CH-17 Trigonometric Ratio.</p> <p>CH-18 Trigonometrical Ratio of std angles.</p> <p>CH-19 Coordinate Geometry.</p> <p>CH-20 Statistics.</p>	<ul style="list-style-type: none"> • Polygons, sum of interior angles of polygon, sum of exterior angles. • Theorems on area and its applications. • Chord properties ,angle properties ,theorems and their applications. • Application of T- ratios. Complementary angles, T-ratio of std angles and its applications. • Distance and section formula. • Central tendency, calculation of mean median and mode. 	<p>members, pocket money), using bar graph and Pie-chart table.</p> <p>Unit test: <u>CH-8 Indices</u> <u>CH-17 Trigonometrical Ratio</u></p>
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SUBJECT: BIOLOGY

NAME OF THE BOOK: CONCISE BIOLOGY STD 9

EXAM	CHAPTER	KEY CONCEPTS	PROJECT	ACTIVITY
1st Unit	Chp2- Cell-the unit of life Chp-3 Tissues: Plant and Animal tissues	-Cell theory -Structure and function of various cell organelles. -Major differences between a 'Prokaryotic and Eukaryotic cell'. -Differences between a plant cell and an animal cell. - Location, basic structure and functions of plant and animal tissues.	Lab manual	Model on pollution control devices.
1st Semester	Chp2- Cell-the unit of life Chp-3 Tissues: Plant and Animal tissues Chp-4 The flower Chp-5 Pollination and fertilization Chp-6 Seeds- Structure and germination Chp-7 Respiration in plants Chp-18 Health organisation	-Cell theory -Structure and function of various cell organelles. -Major differences between a 'Prokaryotic and Eukaryotic cell'. -Differences between a plant cell and an animal cell. - Location, basic structure and functions of plant and animal tissues. -Structure and functions of various parts of a bisexual flower. - Inflorescence and placentation - Structure and differences of Bean seed and maize grain.		

	Chp-19 Waste generation and management	<ul style="list-style-type: none"> - Difference between hypogeal and epigeal germination. - Conditions for seed germination supported by experiments. -Respiration in plants mentioning the terms Glycolysis and Krebs's cycle(Types, process and experiments). - Common health problems in India - Major activities of the Red Cross and W.H.O - Categories of wastes - Methods of safe disposal of wastes 		
2nd Unit	Chp-8 Five kingdom classification	<ul style="list-style-type: none"> - Main characteristics of each kingdom with suitable examples. 		
2nd Semester	Chp-2,3,4,5,6,7,18,19 Chp-8 Five kingdom classification Chp-9 Economic importance of bacteria and fungi Chp-10 Nutrition Chp-11 Digestive system Chp-12 Skeleton-movement and locomotion Chp-13 Skin Chp-14 The respiratory system Chp-15 Hygiene- A key to health Chp-16 Diseases: Cause and control Chp-17 Aids to health	<ul style="list-style-type: none"> - Main characteristics of each kingdom with suitable examples. -Useful and harmful role of bacteria and fungi. -Classes of food, balanced diet and deficiency diseases. -The structure of a tooth and different types of teeth. -Digestive System: Organs, digestive glands and their functions (including enzymes and their functions in digestion, absorption and assimilation of digested food). -General idea of personal hygiene, public hygiene and sanitation. -Kinds of diseases - Axial and Appendicular Skeleton - Types of joints with reference to their location: -Various parts of the skin and their functions. -Special derivatives of the skin -Organs, mechanism of breathing, tissue respiration, heat production. - Structure of the respiratory system - Effect of altitude on breathing -Organs, mechanism of breathing, tissue respiration, heat production. - Structure of the respiratory system - Effect of altitude on breathing 	Lab manual	Model on any body system.

Note: All the chapters of first semester are also included in second semester exam. Second semester question paper to be sent by CISCE.

Distribution of marks in each semester (100 marks) – Internal assessment-20 marks
 {Unit test- (20/2) marks + Lab Manual - 10 marks}+ **Terminal exams- 80 marks**

Subject :- Physics

Name of the book :- Concise Physics

EXAM	CHAPTERS	KEY CONCEPT	PROJECT	ACTIVITY
1 st Unit	1. Measurement and experimentations 2. Motion in one dimension	<ul style="list-style-type: none"> • Measurement using common instruments • Zero error and least count of screw gauge and vernier caliper • Scalar and vector quantities • Distance , displacement, speed, velocity and acceleration • Dist-time graph, speed-time graph • Graphical derivation of equation of motion 	Lab manual	
1 st Semester	1. Laws of Motion 2. Pressure in fluids and Atmospheric pressure 3. Upthrust in fluids, Archimedes Principles and Floatation 4. And unit 1 chapter	<ul style="list-style-type: none"> • Contact and non-contact force. CGS and SI units of force • Laws of motion • Gravitation, reasoning and numerical problem • Pascal ‘s Law • Application of Pascal’s Law in Hydraulic machine • Atmospheric pressure • Buoyancy, up thrust, Archimedes Principles, Floatation • Relative density, 		Activities based on fluids pressure, model making

2 nd Unit	<ol style="list-style-type: none"> Heat and Energy Reflection of Light 	<ul style="list-style-type: none"> Concept of temperature Anomalous behaviour of water Energy Spherical mirror, image formation and their uses, numerical problem based on mirror formula 	Lab manual	Activities related to multiple reflection
2 nd Semester	<ol style="list-style-type: none"> Propagation of sound waves Current Electricity Magnetism And unit 2 chapter 	<ul style="list-style-type: none"> Nature of sound waves Comparison of speed of sound with light. Infrasonic, ultrasonic frequencies and their applications Electric circuit, potential difference, resistance Direction of current Induced magnetism, magnetic field Electromagnet and their uses 		

Subject :- History/Civics

Name of the book :- Indian History World Developments and Civics

EXAM	CHAPTERS	KEY CONCEPT	PROJECT	ACTIVITY
1 st Unit	<p>Civics</p> <p>Ch1:Our Constitution and its Salient features</p> <p>History</p> <p>Ch1:Harappan Civilization</p>	<p>Meaning ,features Preamble Fundamental rights and duties etc</p> <p>Sources and decline etc</p>		In presence of the teacher students will discuss the salient features of the Constitution.

	Ch2: Early Vedic Civilization	Sources, Vedas etc.		
1 st Semester	<p>Civics</p> <p>Ch3: Election and Election Commission</p> <p>History</p> <p>Ch3: The Later Vedic Age</p> <p>Ch4: India in the 6th century rise of Buddhism and Jainism</p> <p>Ch5: The Mauryan Empire</p> <p>Ch6: The Sangam Age: Kingdoms, The Social and Economic conditions</p>	<p>Meaning, composition, kinds etc</p> <p>Sources, comparative study etc</p> <p>Sources and causes of their rise</p> <p>Sources, administration etc</p> <p>Sources, society and economy</p>		<p>Make a flowchart and describe the differences between Early and Later Vedic age.</p>
2 nd Unit	<p>Civics</p> <p>Ch4: Local Self-Government: Rural Local Institution</p> <p>History</p> <p>Ch7: The Age of Guptas</p> <p>Ch8: South India and The Cholas</p>	<p>Panchayati Raj, meaning and functions</p> <p>Sources, politics and administration</p> <p>Sources politics and administration</p>		<p>In a chart paper present the political history and administrative achievements of Cholas.</p>
2 nd Semester	<p>Civics</p> <p>Ch5: Local Self-Government: Urban Local Institution</p>	<p>Municipal Committees and Corporation</p>		

	History Ch9: The Delhi Sultanate Ch10: The Mughal Empire Ch11: The Composite Culture Ch12: The Renaissance Ch13: the Reformation Ch14: Industrial Revolution and Capitalism and Socialism	Sources, administration etc Sources, administration etc Sources, significances of the movements etc Definitions, causes etc Definition, causes, Martin Luther etc Definition, comparison etc	"The Renaissance was a period of rediscovery at the end of the Dark Age" describe through your project.	
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Subject :-Geography

Name of the book :- FRANK MODERN CERTIFICATE GEOGRAPHY PART-1

EXAM	CHAPTERS	KEY CONCEPT	PROJECT	ACTIVITY
1 st Unit	Ch-1: Earth As A Planet Ch-2: Geographic Grid-Latitudes & Longitudes	Shape of the earth, earth as the home of humankind and the conditions that exist (a) Concepts of latitudes (b) concepts of longitudes-prime meridian (c) using latitudes and longitudes to find location (d) great circles and Their use		
1 st Semester	Ch-3: Rotation And Revolution	Rotation-direction, speed and its effects Revolution of the and its inclined axis-effects: the variation in the length of the day and night and	Make a project (in file) on types, sources, effects and	

	<p>Ch-4: Structure Of The Earth</p> <p>Ch-5: Landforms Of The Earth</p> <p>Ch-6: Materials Of The Earth's Crust-Rocks</p>	<p>seasonal changes with equinoxes and solstices</p> <p>Layers of the earth, lithosphere or the earth's crust, lithosphere or the earth's crust, mantle or mesosphere, the upper mantle or athenosphere, core of the earth or barysphere</p> <p>Types of mountains ,fold mountains ,features of young fold mountains, block mountains or horsts, residual mountains, role of mountains, types of plateaus, types of plains</p> <p>Difference between rocks and minerals, types of rocks, rock cycle of transformation, economic significance of rocks</p>	<p>preventive measures of pollution.</p>	<p>Students practice map work on an outline map of the world.</p>
2 nd Unit	<p>Ch-7: Volcanoes</p> <p>Ch-8: Earthquakes</p>	<p>Meaning, types of volcanoes, constructive effects of volcanoes, destructive effects of volcanoes, important volcanic zones of the world</p> <p>Earthquakes-meaning, causes of earthquakes ,measurement/interpreting seismic wave data, destructive and constructive effects of earthquakes, earthquake zones of the world</p>		
2 nd Semester	<p>Ch-9: Weathering And Denudation</p>	<p>Weathering, erosion and gradation, weathering and its types, denudation-meaning, agents of denudation</p>		

	Ch-10: Hydrosphere	Meaning of hydrosphere, oceans, tides, ocean current		
	Ch- 11: The Atmosphere	Composition and structure of the atmosphere, layers of atmosphere, importance of ozone layer, global warming		
	Ch-12: Insolation	Insolation, heating of the atmosphere, factors influencing weather and climate, heat zones, global heat balance or heat budget		
	Ch-13: Atmospheric Pressure And Winds	Meaning, factors affecting atmospheric pressure, instruments measuring atmospheric pressure, major pressure belts of the earth, wind, types of winds, the planetary wind belt of the world, shifting of major pressure and wind belts, periodic winds, local winds, variable winds, jet streams		Students practice map work on an outline map of world.
	Ch-14: Humidity And Precipitation	Humidity, condensation, precipitation, types of rainfall		

Subject :-COMPUTER APPLICATIONS

Book Name :- LOGIX Computer Application

EXAM	CHAPTERS	KEY CONCEPT	PROJECT	ACTIVITY
1st Unit	Ch-1. Introduction to object oriented programming concepts Ch -2. Introduction to Java	<ul style="list-style-type: none"> ➤ Principles of OOP'S. ➤ Four principal of OOP'S. ➤ Introduction to JAVA. ➤ Types of Java program 	Create a PowerPoint presentation on the topic of programming languages and describe the various	Program using Assignment operator.

	Ch-3. Elementary concepts of objects and classes	<ul style="list-style-type: none"> ➤ Java Applets ➤ Features of JAVA 	generation of programming languages. (Minimum 10 Slides)	
1st Semester	Ch -4 Values and Data types Ch -5 Operator in Java Ch - 7 Input in Java (All Chapters of 1 st Unit & Semester)	<ul style="list-style-type: none"> ➤ Character set ➤ ASCII code ➤ Types of operator ➤ Prefix & Postfix ➤ Types of Error ➤ Use of Scanner 		
2nd Unit	Ch - 8 Mathematical Library Methods	<ul style="list-style-type: none"> ➤ Introduction to package Methods of Math class. 		
2nd Semester	Ch - 9 Conditional Constructs in Java Ch-10 Iterative Constructs in Java Ch-11 Nested Loops Ch-12 Computing and Ethics (All Chapters including Semester 1)	<ul style="list-style-type: none"> ➤ Application of If else ➤ Switch case ➤ Types of looping statement ➤ Jumping statement ➤ Introduce nested loop. ➤ Break & Continue statements ➤ Ethical issue in computing. ➤ Intellectual property 	Create a PowerPoint presentation on the topic of Computing and Ethics Ethical Issues in Computing .(Minimum 15 Slides)	Assignment based on Control and Loop structure.

Marking Pattern for each semester:

1. UNIT TEST (20 Marks)

Project + Lab. Test => 20 Marks

2. SEMESTER EXAM (80 Marks) (Semester exam will be of 100 marks but it will be converted into 80 marks while calculating the final marks).

Subject:- ECONOMIC APPLICATIONS

Name of the book:- Frank Certificate Economic Applications

Exams	Chapters	Key Concepts	Projects	Activity
1st Unit Test	1. Meaning and Definition of Economics 2. Basic concepts of Economics	1. Meaning and Definition of Economics <ul style="list-style-type: none"> • Introduction • Definitions of Economics 2. Basic concepts of Economics Meaning and Types <ul style="list-style-type: none"> • Human Wants • Classification of Goods and Services • Consumption • Utility • Production • Factors of Production or Inputs • Price • Market • Money • Income • National Income • Per Capita Income • Saving • Investment • Wealth 		
1st Semester	3. Economy and Economic Entities 4. Basic Problems of an Economy 5. The Nature and the Classification of an Economy 6. Solutions to the Basic Economic Problems in Different Economies 7. The Nature of the Indian Economy	3. Economy and Economic Entities <ul style="list-style-type: none"> • Economy- Meaning • Simple and Complex Economies • Basic Economic Entities in an Economy: Decision-Takers • Importance of Economic Entities – Their Role in an Economy 4. Basic Problems of an Economy <ul style="list-style-type: none"> • Economic Problem • Basic Problems of an Economy 	Project 1 contains the following assignments. Assignment 1) Identify the major brands of bathing soaps that are available in the market in your area. Select a sample of 10 shops/departmental stores that sell these brands and collect the sales of these brands over a period of one week at these	1.) PPT presentation of Assignment 1 2.) PPT presentation of Assignment 2

		<ul style="list-style-type: none"> • Economic Growth and Economic Development <p>5. The Nature and the Classification of an Economy</p> <ul style="list-style-type: none"> • Developed and Developing (Underdeveloped) Economies • Types of Economic Systems • Capitalistic Economy • Socialistic Economy • Differences between the Capitalistic and the Socialistic Economies • Mixed Economy <p>6. Solutions to the Basic Economic Problems in Different Economies</p> <ul style="list-style-type: none"> • Solutions to the Basic Economic Problems in a Capitalist Economy • Solutions to the Basic Economic Problems in a Socialistic Economy • Solutions to the Basic Economic Problems in Mixed Economy <p>7. The Nature of the Indian Economy</p> <ul style="list-style-type: none"> • The Nature of the Indian Economy at the Present Juncture • Indian Economy: A Developing Economy • Indian Economy: A Mixed Economy 	<p>shops. Identify the brands that sell the most and make a presentation.</p> <p>Assignment 2) Take a developed country such as the USA and a developing country such as India. Analyze the main characteristics of these economies.</p>	
2nd Unit	<p>8. The Sectors of Indian Economy</p> <p>9. Impact of Agricultural and Industrial Practices on the Ecosystem</p>	<p>8. The Sectors of Indian Economy</p> <ul style="list-style-type: none"> • Relative Roles of Different Sectors Classified According to the Nature of Economic Activity (Industry of Origin) • Indian Agriculture 		

		<ul style="list-style-type: none"> • Industrial (Manufacturing) Sector in India • Service Sector in India • Interrelationship between Agriculture, Industry and Service Sectors • Private and Public Sectors in India • Rural and Urban Sectors in India <p>9. Impact of Agricultural and Industrial Practices on the Ecosystem</p> <ul style="list-style-type: none"> • Meaning of Ecosystem • Impact of Agricultural Practices on the Ecosystem • Impact of Industrial Practices on the Ecosystem • Measures to check Destruction of Ecosystem 		
2nd Semester	<p>10. Infrastructure of the Indian Economy</p> <p>11. Social Infrastructure of the Indian Economy</p> <p>12. Consumer Awareness</p> <p>13. Globalization</p>	<p>10. Infrastructure of the Indian Economy Role of Public Sector Enterprises</p> <ul style="list-style-type: none"> • Economic and Social Infrastructure • Components of Infrastructure • Transport • Communication • Energy (Power) • Irrigation <p>11. Social Infrastructure of the Indian Economy</p> <ul style="list-style-type: none"> • Education • Health and Family Welfare • Housing <p>12. Consumer Awareness</p> <ul style="list-style-type: none"> • What is Consumer Awareness? • Consumer's Exploitation 	<p>Project 2 contains the following assignments. Assignment 3)</p> <p>Take the table of food grain production in India from any textbook on Indian Economy or any other secondary source such as internet. Interpret the changes in the production over a given period of time.</p> <p>Assignment 4)</p>	<p>1.) PPT presentation of Assignment 3</p> <p>2.) PPT presentation of Assignment 4</p>

		<ul style="list-style-type: none"> • Reasons for Exploitation of Consumers • Rise of Consumer Awareness • Legal Measures Available for Consumer Awareness <p>13. Globalization</p> <ul style="list-style-type: none"> • Meaning of Globalization • Effects of Globalization • Globalization in India • World Trade Organization (WTO) 	<p>Given a table of population growth for period between 2001 and 2021 and table of contribution of agriculture, industry and services sector for the same period, compare the two tables and present your findings in the form of a presentation.</p>	
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Subject – Moral Science

Name of the book : DISCOVERING MYSELF

TERM	PORTION	KEY CONCEPT	ACTIVITY / PROJECT
1 st Semester	<p>1. Thinking of the Future</p> <p>2. From the Heart</p> <p>3. The Generation Gap</p> <p>4. The world of Friendship</p> <p>5. Born to be me</p> <p>6. The dark road down</p>	<p>- Making the right career choice</p> <p>-Dealing with feelings</p> <p>-Bridging the gap through dialogue</p> <p>-Nurturing friendship</p> <p>-individual differences</p> <p>-Dealing with anxiety</p>	<p>PROJECT: Make a project work on” The Generation Gap”.</p>
2 nd Semester	<p>7. Dignity for all</p> <p>8. The gamut of Human Rights</p> <p>10. Corruption in public life</p> <p>11. This land is sacred</p> <p>12. A plant to heal</p> <p>13. Welcome to the media world</p>	<p>-Acknowledging human dignity</p> <p>-Respecting human rights</p> <p>- Examining corruption</p> <p>-Protecting the environment</p> <p>- Resting consumerism</p> <p>-Analysing media projections</p>	<p>PROJECT: Make a project work on” Protecting the environment”.</p>

Subject :- Chemistry

Name of the book :- Concise Chemistry

1 st Unit	1. The language of chemistry 2. Chemical changes and reactions	Symbol, Valency, formulae, atomic masses, molecular mass. Type of chemical changes.		Ppt making on pollution and group discussion
1 st Semester	1. Water 2. Atomic structure 3. Atmospheric pollution (Activity based) (U T. 1 Chapters)	Water as universal solvent. Soft water and hard water Drying and dehydration agent. Structure of an atom, it's mass number, it's atomic number. Types of bond.	Lab manual	
2 nd Unit	1. The periodic table 2. Study of Gas laws	Grouping of an element. Effect of pressure and temperature on gases.		Hand wash and sanitizer preparation
2 nd Semester	1. Study of the first element – Hydrogen 2. Practical work (U.T 2 Chapters)	Position of the non-metal in periodic table. Reaction to form hydrogen from water, acid and alkalis. Oxidation and reduction reaction.	Lab manual	