



SUBJECT – ENGLISH CORE

Month	Name of Chapter	Objective/Aim
April	Reading: Note Making	To develop the skill of making brief notes and summarizing
	Writing: Notice	To impart the skill of notifying specific information
	Writing: Article	To enhance the skill of critical thinking and presenting ideas in a coherent manner
	The Last Lesson (L-1)	To arouse patriotic feeling and love for mother tongue
	Lost Spring (L-2)	To create awareness about the hazards of child labour
	Mother At... (P-1)	To kindle care and concern for ageing parents
	Third Level (S-1)	To make students aware about the intermingling of present and past, as a way to escape from anxiety and tension.
	Tiger King (S-2)	To point out problems caused by conceit of those in power
May	Reading compre.	To enhance comprehension skill
	Writing: Classified Advertisement	To express needs and requirements through newspaper
	Deep Water (L-3)	To promote 'never say die' spirit
	An Elementary...(P-2)	To draw attention towards social injustice and class inequalities
	Journey Towards.. (S-3)	To point out the relevance of educational tours to understand global issues.
	The Enemy (S-4)	To promote humanitarian approach and discard enmity
July	Note Making	To develop the skill of making brief notes and summarizing
	All types of Letters	Skill of corresponding through written communication
	Writing: Commercial Advertisement	To express needs and requirements through newspaper, hoardings etc.
	The Rattrap (L-4)	To understand the value of honesty, kindness, compassion
	Keeping Quiet (P-3)	To highlight the importance of introspection and mutual understanding
	Should Wizard hit...(S-5)	To distinguish between a child's perspective and an adult's
August	Reading comprehension	To enhance comprehension skill
	Writing: Invitation	To develop the skill of extending cordial request to invite, accept or decline the invite
	Indigo (L-5)	To highlight the role of Gandhi Ji and Champaran episode
	Poets and Pancakes (L-6)	To appreciate the struggle of people related to film industry.
	A thing of beauty (P-4)	To explore and enjoy the sensual beauty of nature
	The Roadside (P-5)	To draw attention towards the problems of unprivileged people of the society
	On the face of it (S-6)	To draw attention towards the problems of physically challenged people
September	Reading	Revision
	Writing: Speech/Debate	To develop skill of putting forth arguments both in favour or against the topic



	Aunt Jennifer...(P-6)	To create awareness about problems related to gender discrimination
	Interview (L-7)	To introduce the concept of Interview in the arena of journalism.
October	Reading	Revision
	Writing	Revision
	Going Places (L-8)	To create awareness about the harms of overfantasizing
	Evan tries...(S-7)	To engage in battle of wits and enjoy thrill and suspense
November	Reading: Comprehension	Revision
	Writing: Poster Making	To enhance creative expression and create awareness about social issues
	Report Writing	To enhance the skill of critical thinking and presenting ideas in a coherent manner
	Letter Writing	Revision
	Memories of Childhood (S-8)	To generate awareness about issues related to caste and creed discrimination
November	Pre Board I	Complete Syllabus
December	Report Writing	Revision
December	Pre Board II	Complete Syllabus

Exam Syllabus

TEST/EXAM	SYLLABUS
TERM I (40%)	Reading Comprehension, Notice, Letter to Editor, Report Writing (School Magazine) Literature- The Last Lesson, Lost Spring, My Mother at 66, Keeping Quiet, The Third Level, Tiger King
HALF YEARLY (80%)	Reading Comprehension, Notice, Invitation (Formal & Informal) & Replies, Letter to Editor, Job Application. Report Writing (School Magazine & Newspaper) Literature- The Last Lesson, Lost Spring, Deep Water, Indigo, Poets and Pancake, My Mother at 66, Keeping Quiet, A Thing of Beauty, The Third Level, Tiger King, Journey to the End of the Earth, The Enemy Internal Assessment- ASL & Project
PRE BOARD I (100%)	Reading Comprehension, Notice, Invitation (Formal & Informal) & Replies, Letter to Editor, Job Application. Report Writing (School Magazine & Newspaper) Literature- The Last Lesson, Lost Spring, Deep Water, Indigo, Poets & Pancakes, The Interview, Going Places, My Mother at 66, Keeping Quiet, A Thing of Beauty, Aunt Jennifer's Tigers, A Roadside Stand The Third Level, Tiger King, Journey to the End of the Earth, , On the Face of It, Memories of Childhood
PRE BOARD II (100%)	Complete Syllabus



SUBJECT – ACCOUNTANCY

Month	Chapter	Learning objectives/Learning outcomes	Subject Enrichment Activity	Project
April	Financial statements of a Company Analysis of Financial Statements Ratio Analysis	<p>Students would be able to understand the -</p> <ul style="list-style-type: none"> • Meaning & Preparation of Balance sheet & Statement of Profit & loss of a company as per new schedule • Develop the understanding of major headings and sub-headings (as per Schedule III to the Companies Act, 2013) of balance sheet as per the prescribed norms / formats. <p>Students would be able to understand the-</p> <ul style="list-style-type: none"> • The meaning, objectives and limitations of financial statement analysis. • Various Tools of Financial Statement Analysis. <p>Students would be able to understand the- Meaning, significance, classification & computation of Accounting Ratios.</p> <ul style="list-style-type: none"> • Liquidity Ratios • Solvency Ratios • Activity Ratios • Profitability Ratios 	Presentation related to Financial Statements and Tambola	CBSE Comprehensive Project
May	Cash Flow Statement Issue of Shares	<p>Students would be able to understand the:-</p> <ul style="list-style-type: none"> • Meaning & objectives of Cash Flow Statements <p>Preparation of CFS as per AS3.</p> <ul style="list-style-type: none"> • Accounting treatment of issue of shares for cash and consideration other than cash at par or at premium. • Forfeiture and re-issue of shares • Preparation of Balance Sheet depicting Share Capital 	Project on CFS Quiz	CBSE Specific Project
July	Issue of Debentures	<p>Students would be able to understand:</p> <ul style="list-style-type: none"> • Accounting Treatment of Issue of Debentures for Cash & Consideration other than cash at Par, Premium & Discount. • develop the understanding and skill of writing of discount / loss on issue of debenture. • understand the concept of collateral security and its presentation in balance sheet. • develop the skill of calculating interest on debentures and its accounting treatment. 	Quiz	
August	Accounting for Partnership Firms	<p>After studying this chapter students would be able to</p> <ul style="list-style-type: none"> • state the meaning of partnership, partnership firm and partnership deed. 		



	<p>Valuation of Goodwill.</p> <p>Change in Profit sharing Ratio among existing Partners.</p>	<ul style="list-style-type: none"> describe the characteristic features of partnership and the contents of partnership deed. discuss the significance of provision of Partnership Act in the absence of partnership deed. differentiate between fixed and fluctuating capital, outline the process and develop the understanding and skill of preparation of Profit and Loss Appropriation Account. develop the understanding and skill of preparation profit and loss appropriation account involving guarantee of profits. develop the understanding and skill of making past adjustments. <p>Students would be able to understand the-</p> <ul style="list-style-type: none"> Meaning, Need & Methods of Valuation of Goodwill. <p>Students would be able to understand the -</p> <ul style="list-style-type: none"> Accounting Treatment for different items in case of change in Profit sharing Ratio among existing Partners develop the understanding of accounting treatment of revaluation assets and reassessment of liabilities and treatment of reserves and accumulated profits by preparing revaluation account and balance sheet. 	Relay	
Sep.	Admission of a Partner	<p>After studying this chapter students would be able to</p> <ul style="list-style-type: none"> understand the effects and accounting treatment at the time of admission of a partner develop the understanding and skill of treatment of goodwill, treatment of revaluation of assets and re-assessment of liabilities, treatment of reserves and accumulated profits, adjustment of capital accounts and preparation of balance sheet of the new firm. 	Relay	
Oct.	Retirement & Death of a Partner	<p>Students would be able to understand:</p> <ul style="list-style-type: none"> Accounting treatment & computation of amount at the time of Retirement & Death of a Partner. develop the understanding of accounting treatment of goodwill, revaluation of assets and re-assessment of liabilities and adjustment of accumulated profits and reserves on retirement/death of a partner and capital adjustment. develop the skill of calculation of deceased partner's share till the time of his death and prepare deceased partner's executor's account. 	Relay Relay	



	Dissolution of a Partnership firm	<ul style="list-style-type: none"> discuss the preparation of the accounts of the remaining partners and the balance sheet of the firm after retirement / death of a partner. <p>Students would be able to understand:</p> <ul style="list-style-type: none"> Accounting treatment & settlement of accounts at the time of Dissolution of a Partnership firm understand the situations under which a partnership firm can be dissolved. understand the preparation of realisation account and other related accounts. 		
Nov. to Feb.	Revision and Pre Board			

Exam Syllabus

Term 1	Book 3 and issue of share	37%
Term 2	Book 2 books 3 & book 1 (chapter 1-4)	75%
Pre board 1	Full syllabus	100%
Pre board 2	Full syllabus	100%



SUBJECT – BUSSINESS STUDIES

MONT H	CHAPTER	LEARNING OBJECTIVES	SUBJECT ENRICHMENT ACTIVITY	PROJ ECT
April	Nature & Significance of Management Marketing Management	After studying this chapter students would be able to explain: The meaning ,nature, importance& characteristics of Management. Levels of Management. Functions of management at different levels. Coordination as the essence of management. After studying this chapter students would be able to explain : Meaning and functions of Marketing. Marketing mix.	Visit to any organisation Survey and project on Marketing	
May	Principles of Management Business Environment	After studying this chapter students would be able to explain: Meaning,features and importance of management principles. Principles by Henry Fayol. Principles and techniques of scientific management. Comparison between the contributions of Fayol and Taylor. After studying this chapter students would be able to explain: Meaning,features and importance of business environment Dimensions of Business environment Concept and objectives of Demonetisation	Dumb Charades,Role Play and project on Principles of Management Collage of newspaper cuttings Project on Business Environment	Project as per CBSE guidelines
July	Planning Organizing	After studying this chapter students would be able to explain: Meaning and features of Planning. Planning process. Importance and limitations of Planning. Types of Plans. After studying this chapter students would be able to explain: Meaning, importance and Process of organizing.	Preparation of a plan for an event	
Aug.	Organizing contd. Staffing	Organizational structure and its types. Formal and Informal Organisation. Delegation and Decentralisation. After studying this chapter students would be able to explain: Concept and importance of staffing. Process of staffing. Recruitment and its sources. Process of selection.	Development of Organisational structure for the Committee for the event. Filling of posts in the Organisational Structure created	

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SUBJECT – ECONOMICS

Month	Chapter	Learning Objectives/	Subject Enrichment Activity	Project
April	<p>Money and banking</p> <p>Circular flow of income</p> <p>Some basic concepts of Macro Economics</p> <p>Measurement of National Income</p>	<p>To enhance the knowledge of the students regarding Money—Its meaning. Supply of money. Commercial Banks- Money creation by commercial Banks. Central Banks—Meaning and its functions</p> <p>To acquainting the students with circular flow of money in two sector economy,--real and money flow</p> <p>To familiarize the students with the meaning of Meaning of Macro Economics, Some basic concepts, Meaning of real and nominal National Income</p> <p>To make the students acquainting about GDP and its related aggregates, Value of output and value added</p> <p>Three methods of calculating N.I. Income, Expenditure and Product method</p>	Prepare a presentation on the treatment of various items in the calculation of domestic and national income.	
May	<p>Indian Economy at time of Independence</p> <p>Indian economy (1950-1990)</p>	<p>To familiarize the students with the state of Indian economy at the time of independence & its main features. Problems and policies of agriculture. industry and foreign trade</p> <p>Students will come to know about the long term objective of our plans to develop all the aspects of the Economy</p>		Project
July	<p>Determination of Income and employment</p> <p>Economic reforms since 1991</p>	<p>Aggregate Demand and its components, propensity to consume and save, Investment multiplier</p> <p>Short term equilibrium, Meaning of full and involuntary unemployment,</p> <p>To acquainting the students regarding the need and features of LPG policy</p>	Class presentation over fiscal and monetary measures to combat the situation of inflation and deflation.	
August	<p>Determination of Income and employment</p> <p>Human capital formation</p> <p>Rural Development</p>	<p>Problem of excess and deficient demand ,measures to correct it—Fiscal and monetary policy</p> <p>To make the learners aware regarding the meaning of human capital, human capital formation, its sources, Importance of education</p> <p>To make the learners aware regarding the current challenges faced the Indian economy with reference to rural development</p>	Process of multiplier will be explained through class activity	



September	Budget and the Economy	To develop Awareness among Students about Meaning .objectives, components Revenue and capital Budget Budget Deficit Revenue, Fiscal and Primary deficit Revision Half yearly- examination		
October	Balance of payment Employment Environment and sustainable development	BOP account-meaning and components Foreign Exchange Rate—Meaning of fixed, floating and managed floating exchange rate Determinants of exchange rate in a free market Employment-Growth, informalisation and other issues Environment and sustainable development—effects on economic development on resources and environment	Collect The information regarding ex rate between rupee and major currencies of the world Prepare a report on various schemes launched by Government to create job opportunities.	
November	Development experience of India: A comparison with neighbours	To develop the awareness among students regarding comparative development of India and its neighboring countries other issues	Analysing tables related to HDI Demographic and growth of India China and Pakistan	

Exam wise syllabus

Term 1	Macro Eco Chap 1-6 IED Chap 1-2
HY Exam	Macro Eco- Unit 1-3 IED Chap1,2,3,5,6
P.B1	Whole Syllabus
P.B2	Whole Syllabus



SUBJECT – MATHEMATICS

Month	No. and Name of the chapter	Learning Objective	Subject Enrichment Activites
MARCH	Ch-3 Matricies	Use of matrix in the nature of solutions of systems of simultaneous equations.	
April	Ch-3 Matricies (CONTD...)		
	Ch-4 Determinant	To learn about determinant and their uses in different areas	1.To solve the linear equations using matrix method
	Ch-1 Relations and Function	To understand the different types of relations and functions along with their co-domain and range.	2.To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \parallel m\}$ is an equivalence relation. 3.To verify that function is one one but not onto 4.To verify that function is not one one but onto
	Ch-2 Inverse Trigonometry Function	To understand the behaviour of inverse trigonometric function which plays very important role in calculus.	
May	Ch-5 Continuity and Differentiability	To clear the concept of continuity and differentiability and their relationship between different types of functions	
	Ch-6 Application of Derivatives	To use derivatives in determining the rate of change of various quantities	5.To understand the concepts of increasing and decreasing functions, 6.To understand the concept of maxima & minima
July	Ch-7 Integration	To solve problems of finding a function whose domain is given	
	Ch-8 Application of Integration	To find the area bounded by the graph of a function under given conditions	7.Calculate the area of the triangle using integration.
Aug	Ch-8 Application of Integration(CONT...)		
	Ch-9 Differential Equations	To search unknown function that satisfies the equation which contain the derivative of unknown function	



Sep	Ch-10 Vector Algebra	To study vector, that are helpful in describing and analysing many physical solutions.	
	Revision and Half yearly		
Oct	Ch-11 Three-Dimensional Geometry	To tell the use of vector algebra in 3D which makes its study simple and elegant.	8. To measure the shortest distance between two skew lines and verify it analytically
	Ch-12 Linear Programming	To determine the optimum values of a linear functions subject to constraints expressed a linear equations or inequalities	9.To solve the Linear Progarmming Problem graphically.
Nov	Ch-13 Probability	To find the probability of different situations under the given conditions.	10.To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice
	Preboard 1		
Dec Jan	Revision and PREBOARD 2		
Feb	Revision		

Exam Syllabus

TERM - I	CH 1,2,3,4,5,6.	50 marks
HALF YEARLY	CH 1 TO 10	80 marks
PREBOARD-I	WHOLE SYLLABUS	80 marks
PREBOARD- II	WHOLE SYLLABUS	80 marks



SUBJECT – COMPUTER SCIENCE WITH PYTHON

MONTH	CHAPTER NAME	OBJECTIVE / AIM	LAB ACTIVITY
March - April	Ch – 1 Review of Python Basics	Revision of the basics of Python topics covered in Class XI (Tokens; simple datatypes; notion of a variable; keywords; operators and their precedence, Conditional statements; Notion of iterative computation and control flow; Lists, tuples, and dictionary; Strings	1. Input a string and determine whether it is a palindrome or not; convert the case of characters in a string. 2. Find the largest/smallest number in a list/tuple 3. Input a list of numbers and swap elements at the even location with the elements at the odd location. 4. Input a list/tuple of elements, search for a given element in the list/tuple. 5. Create a dictionary with the roll number, name and marks of n students in a class and display the
	Ch – 2 Functions	Functions: scope, parameter passing, mutable/immutable properties of data objects, pass arrays to functions, return values, Functions using libraries: mathematical, and string functions, scope of variables, main() function	names of students who have scored marks above 75. 1. Write a random number generator that generates random numbers between 1 and 6 (simulates a dice) using functions.
May	Ch – 4 Data File Handling	File handling: open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths, Types of files – Text file, Binary file, CSV file.	1. Read a text file and display the number of vowels / consonants/ uppercase/lowercase characters in the file. 2. Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message. 3. Create a CSV file by entering user-id and password, read and search the password for given user-id.
	Ch – 5 Data Structures in Python	Data-structures: lists, stacks, & various operations associated with it.	1. Write a Python program to implement a stack using list.
June	Summer Break		
July	Ch – 7 Relational	TERM I Examination Relational databases: idea of a database and the need for it, relations, keys,	Create a student table and insert data. Implement the following



	Database and SQL	primary key, foreign key; Use SQL commands to create a table, keys, and foreign keys; insert/delete an entry, delete a table. Basic SQL: select, project, SQL commands: aggregation functions, having, group by, order by, joins.	SQL commands on the student table: 1. ALTER table to add new attributes / modify data type / drop attribute 2. UPDATE table to modify data 3. ORDER By to display data in ascending / descending order 4. DELETE to remove tuple(s) 5. GROUP BY and find the min, max, sum, count and average ● Similar exercise may be framed for other cases.
August	Ch – 8 Interface Python With SQL	Interface Python with an SQL database, connecting SQL with Python, creating database connectivity applications, perform insert, update & delete queries, display data by using fetchone(), fetchall() & rowcount.	Integrate SQL with Python by importing suitable module.
	Ch – 6 Computer Networks	Structure of a network: Types of networks, cloud and IoT, public vs. private cloud, wired and wireless networks; concept of a client and server; Network devices such as NIC, switch, hub, router, and access points; MAC address, main idea of routing. IP addresses, routing table, router, DNS, and web URLs, TCP; Protocols: 2G, 3G, 4G, Wi-Fi. Basic network tools; HTTP (basic idea), working of email, secure communication: encryption and certificates (HTTPS), network applications: remote desktop, remote login, HTTP, FTP, SCP, SSH, POP/IMAP, SMTP, VoIP, NFC	
September	TERM II Examination		
October	Revision of syllabus		
November	Revision of syllabus		
PROJECT: The aim of the class project is to create something that is tangible and useful using Python file handling/ Python-SQL connectivity. This should be done in groups of two to three students. The aim here is to find a real-world problem that is worthwhile to solve.			

EXAMINATION SCHEDULE

TERM I	HALF-YEARLY	PRE – BOARD I	PRE – BOARD II
Ch – 1, 2, 4 & 5 (57%)	Ch – 1, 2, 4, 5, 7 & 8 (86%)	Complete Syllabus (100%)	Complete Syllabus (100%)



SUBJECT – INFORMATICS PRACTICES

Month	Unit name	Chapter Name	Objective / Aim	Lab Activity
March & April	Unit 1: Data Handling using Pandas and Data Visualization	Data Handling using Pandas - I	<p>Introduction to Python libraries- Pandas, Matplotlib.</p> <p>Data structures in Pandas - Series and data frames.</p> <p>Series: Creation of series from ndarray, dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing.</p> <p>Data Frames: creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration. Operations on rows and columns: add (insert /append) , select, delete (drop column and row), rename, Head and Tail functions, indexing using labels, Boolean indexing; joining, merging and concatenation of data frames.</p> <p>Importing/Exporting Data between CSV files and Data Frames. (for practicals only)</p>	<p>Create a panda's series from a dictionary of values and a ndarray</p> <p>2. Given a Series, print all the elements that are above the 75th percentile.</p>
May & July		Data handling using Pandas – II	<p>Descriptive Statistics: max, min, count, sum, mean, median, mode, quartile, Standard deviation, variance.</p> <p>Data Frame operations: Aggregation, group by, Sorting, Deleting and Renaming Index, Pivoting.</p> <p>Handling missing values – dropping and filling.</p> <p>Importing/Exporting Data between MySQL database and Pandas.</p>	<p>3. Create a Data Frame quarterly sales where each row contains the item category, item name, and expenditure. Group the rows by the category and print the total expenditure per category.</p> <p>4. Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions</p> <p>5. Filter out rows based on different criteria such as duplicate rows.</p> <p>6. Importing and exporting data between pandas and CSV file</p>
		Data Visualization	<p>Purpose of plotting, drawing and saving of plots using Matplotlib (line plot, bar graph, histogram, pie chart, frequency polygon, box plot and scatter plot).</p>	<p>Given the school result data, analyses the performance of the students on different parameters, e.g subject wise or class wise.</p>



				<p>2. For the Data frames created above, analyze, and plot appropriate charts with title and legend.</p> <p>3. Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library.</p>
August	Unit 4: Societal Impacts	Societal Impacts	<p>Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.</p>	<p>Explain the impact of technology on society including gender and disability issues.</p>
	Unit 2: Database Query using SQL	Database Query using SQL	<p>Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by. Operations on Relations - Union, Intersection, Minus, Cartesian Product, JOIN (Cartesian Join, Equi Join, Natural Join)</p>	<p>Create a student table with the student id, name, and marks as attributes where the student id is the primary key.</p> <p>2. Insert the details of a new student in the above table.</p> <p>3. Delete the details of a student in the above table.</p> <p>4. Use the select command to get the details of the students with marks more than 80.</p> <p>5. Find the min, max, sum, and average of the marks in a student marks table.</p> <p>6. Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.</p> <p>7. Write a SQL query to order the (student ID, marks) table in descending order of the marks</p>
October & November	Unit 3: Introduction to Computer Networks	Introduction to Computer Networks	<p>Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. Website: Introduction,</p>	<ul style="list-style-type: none"> • Learn terminology related to networking and the internet • Identify internet security issues and configure browser settings.



			difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies	
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Project Work

The aim of the class project is to create tangible and useful IT application. The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about functioning of the organization, and how data are generated, stored, and managed.

The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize.

If an organization is maintaining data offline, then the learner should create a database using MySQL and store the data in tables. Data can be imported in Pandas for analysis and visualization.

Learners can use Python libraries of their choice to develop software for their school or any other social good.

Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects. Teachers should take necessary measures for this. Any resources (data, image etc.) used in the project must be suitably referenced.

The project can be done individually or in groups of 2 to 3 students. The project should be started by students at least 6 months before the submission deadline.

EXAMINATION SCHEDULE

	UNIT AND CHAPTER NAME	
TERM-I	UNIT-I Data Handling using Pandas -I Data Handling using Pandas -II	(25% OF SYLLABUS)
HALF YEARLY	UNIT-I Data Visualization UNIT-IV Societal Impacts UNIT-II Database Query using SQL	(50% OF SYLLABUS)
PREBOARD -I	UNIT-I Data Handling using Pandas -I Data Handling using Pandas -II Data Visualization UNIT-IV Societal Impacts UNIT -II Database Query using SQL	(75% OF SYLLABUS)
PREBOARD-II	COMPLETE SYLLABUS	(100% OF SYLLABUS)



SUBJECT – PSYCHOLOGY

MONT H	NAME OF THE CHAPTER	OBJECTIVE/ AIM	LAB ACTIVITY / SUBJECT ENRICHMENT ACTIVITY	PROJECT
APR	Ch-1 VARIATION S IN PSYCHOLO GICAL ATTRIBUTE S	After studying this chapter students would be able to: i. Develop the understanding of importance of individual differences in human functioning. ii. Explain different methods used to assess psychological attribute. iii. Develop the understanding of how intelligence has different meaning in different cultures.	Intelligence Test	
	Ch-2 Self and Personality	After studying this chapter students would be able to: i. Develop the understanding of concept of self and learn ways for self- regulation of behaviour. ii. Learns different methods of Personality assessment. iii. Develop insight into the development of a healthy personality.	Personality Test	
MAY	Ch-3 Meeting Life Challenges	After studying this chapter students would be able to: i. Develop the understanding of the nature, type and sources of stress as life challenges. ii. Learn the ways to cope with stress. iii. Develop the understanding of the factors that promotes positive health and well-being.		Developme nt of Case Profile: Using appropriat e Methods like Interview, Observatio n & Psychologic al Tests.
	Ch- 4 Psychological Disorders	After studying this chapter students would be able to: i. Develop the understanding of the basic issues in abnormal behaviour and criteria used to identify such behaviour. ii. Explain the different models of abnormal behaviour. iii. Describe the major psychological disorders.		
JUYY	Ch-5 Therapeutic Approaches	After studying this chapter students would be able to: i. Familiarize themselves with the basic nature and process of Psychotherapy. ii. Understand the use of psychological forms of intervention. iii. Develop the understanding of how people with mental disorders can be rehabilitated.	Self- concept Test	



AUG.	Ch-6 Attitude and Social Cognition	After studying this chapter students would be able to: i. Understand what are attitudes how they are formed and changed. ii. Analyse how people interpret and explain the behaviour of others. iii. Comprehend the presence of others influences our behaviour.	Interest Test	
SEPT.	Ch-7 Social Influence and Group Process	After studying this chapter students would be able to: i. Develop the understanding of nature and types of groups and know how they are formed. ii. Examine the influence of group on individual behaviour. iii. Describe the process of cooperation and competition.	Anxiety Test	
OCT.	Ch-8 Psychology and Life	After studying this chapter students would be able to: -Use psychological knowledge in common life problems. - Analyse how pro-environmental behaviours helps to deal with environmental stressors. - Understand about possible remedies of problems such as poverty, aggression and health.		
NOV.	Ch-9 Developing Psychological skills	After studying this chapter students would be able - Understand the importance of psychological testing skill in individual assessment. - Explain the nature and process of Counselling.		
UNIT WISE SYLLABUS PSYCHOLOGY				
TERM -1 JULY	CH- 1 & 3	37%		
HALF YEARLY EXAMS SEPTEMBER	CH-1 TO 5	61%		
PRE BOARD-I NOVEMBER	CH 1 TO 8	91%		
PRE BOARD-II DECEMBER	CH 1 TO 9	100%		



SUBJECT – COMMERCIAL ART

MONTH	Name of the Lesson to be Taught	Learning Objectives
APRIL	<u>Ch. 1- Rajasthani school of miniature paintings</u> 1- Origin and development . 2- Sub school of Rajasthani school - • 1 Mewar . 2- Kishangarh. 3- Jodhpur. 4- Jaipur. 5- Bikaner. 6 –Bundi. 3-Main features or characteristics of Rajasthani miniature paintings. 4- Study of some famous paintings.	The objective of including the history of Rajasthani paintings for the students is to familiarize them with the various style and modes of art expression from different parts of Rajasthani. This would enrich their vision and enable them to appreciate and aesthetic sensibility to enjoy the beauty of nature and life.
MAY	<u>CH. 2- Pahari school of miniature paintings</u> 1- Origin and development 2- Sub school of Pahari school of miniature- • 1 Basohli . 2- Guler. 3- Kangra. 4- Chamba. 5- Garhwal 3-Main features or characteristics 4-Study of some famous paintings	The objective of including the history of Pahari paintings for the students is to familiarize them with the various style and modes of art expression from different parts of Pahari. This would enrich their vision and enable them to appreciate and aesthetic sensibility to enjoy the beauty of nature and life.
JUNE	Summer holidays	
JULY	<u>Ch. 3- Mughal school of miniature paintings</u> 1-Origin and development of Mughal school of miniature. 2-Main features or characteristics 3-Study of some famous paintings <u>CH. 4- Deccani school of miniature paintings</u> 1- Origin and development of Deccani school of miniature.	The objective of including the history of Mughal and Deccani paintings for the students is to familiarize them with the various style and modes of art expression from different parts of Mughal. This would enrich their vision and enable them to appreciate and aesthetic sensibility to enjoy the beauty of nature and life.
AUGUST	2-Sub school of Deccani school - • 1 Ahmednagar . 2- Golkonda. 3- Bijapur. 4- Hyderabad. 5-Berar, 3- Main features or characteristics, 4-Study of some famous paintings. <u>Ch. 5- Bengal school of paintings</u> 1 Evolution of Indian national flag	The objective of including the history of Deccani and Bengal paintings for the students is to familiarize them with the various style and modes of art expression from different parts of Deccan and Bengal. This would enrich their vision and enable them to appreciate and aesthetic sensibility to enjoy the beauty of nature and life.
SEPTEMBER	<u>Ch. 5- Bengal school of paintings</u> 2- (A) Origin and development of Bengal school of paintings. (B) Main features or characteristics	The objective of including the history of Bengal paintings for the students is to familiarize them with the various style and modes of art expression from different



	3- Contribution of Indian artist in the struggle for national freedom movement. 4- Study of some famous paintings	parts of Bengal. This would enrich their vision and enable them to appreciate and aesthetic sensibility to enjoy the beauty of nature and life.
OCTOBER	<u>Ch. 6- The modern trends in Indian art</u> <u>Introduction</u> Study of following works of contemporary (modern) Indian art. 1-Paintings2-Graphic print3-Sculptures	This would enable and enrich in students artistic sense and sensibility towards Indian Modern art Paintings, Graphic print and Sculptures.
NOVEMBER	Revision	

Term 1	Rajasthani school of miniature , Pahari school of miniature , Mughl school of miniature
Term 2	Deccani school of miniature paintings, Indian national flag, Bengal school of art.
PRE BOARD I	Whole Syllabus
PRE BOARD II	Whole Syllabus



SUBJECT – HOME SCIENCE

MONTH	NAME OF THE CHAPTER	OBJECTIVE/ AIM	LAB ACTIVITY/ SUBJECT ENRICHMENT ACTIVITY	PROJECT
APRIL	CH-1 Work, livelihood and career Ch-2 Clinical Nutrition Ch-3 Public Health and Nutrition	-Explain meaningful work, livelihood, careers and entrepreneurship. -Understand the concepts of standard of living and quality of life. -Understand and describe the significance and scope of clinical nutrition and dietetics. -Describe the role and function of a dietitian/clinical nutritionist/ medical nutrition therapist. -Understand the significance and scope of public nutrition. -have knowledge about the nutritional problems of public health significance.	Planning of therapeutic meals	
MAY	Ch-4 Food Processing Ch-5 Food Quality and Food Safety	-understand what is food processing and technology, its history, development and present status -explain the significance and basic concepts of the subject -explain the importance of various issues related to food safety and quality -understand how food-borne illnesses occur	Prepare a PPT on different types of hazards	Project work
JULY	Ch-6 Early Childhood Care and Education Ch-7 Management of Support Services, Institutions and Programmes for	-understand the basic principles of Early Childhood Care and Education (ECCE) as they apply to Indian society -understand the importance of early care and learning experiences for children -explain why services, institutions and programmes are needed for children, youth and elderly -describe the aspects involved in management of institutions and programmes		



	Children, Youth and Elderly			
AUGUST	Ch- 8 Design for Fabric and Apparel Ch-9 Fashion Design and Merchandising Ch- 10 Care and Maintenance of Fabric	-discuss the concepts of design -recognise the elements that constitute design -Describe the fundamentals of fashion Discuss the significance of care and maintenance of fabrics and textile products	Flip book on principles/ elements of design	
SEPTEMBER	Ch- 11 Hospitality Management	-Explain the importance of hospitality management -Describe the functioning of housekeeping department	Flow chart on different functions of housekeeping department	
OCTOBER	Ch- 12 Consumer Education Ch-13 Development Communication and Journalism	-Understand the role of Consumer Education and Protection -Understand the importance of development Communication and Journalism for social change and development	Prepare own food label of any product	Survey on different laws for consumers.
NOVEMBER	Revision for Exam			
DECEMBER	Revision and Pre-board exam			
JANUARY	Revision and Pre-board exam			
FEBRUARY	Board Exam			

Exam Syllabus

TERM I	CH-1 Work, livelihood and career Ch-2 Clinical Nutrition Ch-3 Public Health and Nutrition Ch-4 Food Processing Ch-5 Food Quality and Food Safety Ch-6 Early Childhood Care and Education	40%
HALF YEARLY	CH-1 Work, livelihood and career Ch-2 Clinical Nutrition Ch-3 Public Health and Nutrition Ch-4 Food Processing Ch-5 Food Quality and Food Safety Ch-6 Early Childhood Care and Education Ch-7 Management of Support Services, Institutions and Programmes for Children, Youth and Elderly Ch- 8 Design for Fabric and Apparel Ch-9 Fashion Design and Merchandising	80%



	Ch- 10 Care and Maintenance of Fabric	
PREBOARD I	Full Syllabus	100%
PREBOARD II	Full Syllabus	100%



SUBJECT – HINDUSTANI MUSIC VOCAL

MONTH	NAME OF THE TOPIC	OBJECTIVE/ AIM	LAB ACTIVITY/ SUBJECT ENRICHMENT ACTIVITY	PROJECT
APRIL	Raag Bageshree parichay, \$ drut khayal Taal Roopak parichay, \$ taal notation thah, dugun, tigan \$ chargin Brief Description- Alankar, Meend, Kan, Gram, Murcchna, Life Sketch- Bade Gulam Ali Khan, \$ Sangeet Ratnaker.	Basic knowledge of raag bageshree Knowledge of different laykaari through taal roopak on hands Knowledge of basic terms of classical music. Understand the contribution of our legend in classical music.	Practice of Raag & taal in practical class.	
MAY	Raag Bageshree Vilambit Khayal with Notation \$ Alap -Taan. Raag Malkauns parichay \$ drut Khayal. jhaptal parichay Thah ,dugun Life Sketch- Faiyaaz Khan. Murkee, Alap -Taan.	To give knowledge of Vilambit laya through vilambit khayal. Basic knowledge of raag malkauns. To give basic knowledge of taal and different laykaari. Understand the contribution of our legend in classical music. To give knowledge of basic terms of classical music.	Practice of Raag & taal in practical class.	Music Practical file.
JULY	Raag malkauns and raag bageshree drut khyal with alaap taan. Notation of taal roopak & jhaptal on hands.	Practical knowledge of raag in detail. Recite taal on hands in different laya.	Practice of Drut khyal with alaap taan in practical class.	
AUGUST	Raag Malkauns Tarana & drut Khayal with Alap -Taan Taal Jhap taal Tigan & chargin laykari Taal Dhamar parichay & thah , dugun , tigan and chargin laykari. Time theory of raag Sangeet ratnakar khatka Murki , gamak.	Practice of laya through tarana (Madhya to drut laya) To give basic knowledge of taal and different laykaari. Practice of taal in different laya. Explain to decide the time of particular raag. Discuss about the classical music in ancient times through sangeet ratnakar. To give basic knowledge of alankarik kriya.	Practice of tarana , drut khyal & taal in practical class.	



SEPTEMBER	Raag Malkauns drut Khayal with Alap taan Taal Dhamar Dugun, tigan & chargin taal notation. Life Sketch-Krishan rao Shanker Pandit Tuning of taan pura.	Practical knowledge of raag in detail. Practice of taal in different laya. Understand the contribution of our legend in classical music. Explain the structure & tuning of taanpura through demonstration.	Demonstration of raag, taal & taanpura.	
OCTOBER	Raag Bhairav Parichay Dhamar in raag malkauns thah \$ dugun.laykari \$ Notation.	Basic introduction of raag bhairav. Practice of our ancient singing style Dhamar.	Practice of raag , drut khyal & dhamar in practical class.	
NOVEMBER	Malkauns- Dhamar with laykari.Tarana with Notation. Raag Bhairav drut khayal with Alap -Taan.	Practice of raag , taal & tarana in detail.	Practice & demonstration of different raag & taal.	
DECEMBER	Revision and Pre-board exam			
JANUARY	Revision and Pre-board exam			
FEBRUARY	Board Exam			

Term 1 Topics

Raag Bageshree parichay swar vistar, vilambit & drut khayal notation with Alap taan , raag malkauns parichay, drut khyal notation, Taal Roopak & Jhap taal with layekaree & Taal Notation. topics- Alankar, Meend, Kan, Gram, Murchhna, Sangeet Ratnaker. Murkee ,Alap taan, Bade Gulam Ali Khan, & Faiyaaz Khan.

Half Yearly

Raag malkauns drut khayal , tarana & dhamar with notation. Raag Bageshree Vilambit & drut khayal notation Taal Roopak, Jhaptaal & dhamar parichay & notation with laykaree. topics- time theory of raag, Sangeet Parijaat, tuning of Taan pura krishan shanker rao pandit, Bade Gulam Ali Khan. Sangeet Ratnaker, Murchhna, gram ,Alankar, Meend, Kan, Murkee, Alap taan.

PRE – BOARD 1 & PRE BOARD 2

Topics -Alankar, kan, Meend, khatka, Murki, Gamak ,Alap, Taan, Gram, Murchhna. Sangeet Ratnaker, Sangeet Parizaat. Bade Gulam Ali Khan, Ali Khan, Faiyaaz Khan, Krishan rao Shanker pandit, Time theory of raag, Tuning of Taan pura, Taal Roopak, Jhap taal, Dhamar parichay notation in laykaree. Raag Bageshree, Malkauns, & Bhairav parichay ,swar vistar, raag pehchaan, notation - khayal, dhamar, & tarana ,.