



<u>SUBJECT – ENGLISH CORE</u>

Month	Name of Chapter	Objective/Aim
April	Reading: Comprehension	To enhance comprehension skill
	Passage	
	Writing: Notice	To impart the skill of notifying specific information
	Report Writing	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 Sixty-Six (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 Comprehension	To enhance comprehension skill
Trans	Writing: Invitation/Replies (Formal)	To develop the skill of extending cordial request to invite, accept or decline the invite
	Writing: Letters to Editor	Skill of corresponding through written communication
	Deep Water (L-3)	To promote 'never say die' spirit
	Journey Towards the End of	To point out the relevance of educational tours to understand
	the Earth (S-3)	global issues.
	The Enemy (S-4)	To promote humanitarian approach and discard enmity
July	Reading Comprehension	To enhance comprehension skill
	Writing: Letters- Job	Skill of corresponding through written communication
	Application	To highlight the gold of Condhi Ii and Champagan anisodo in
	Indigo (L-5)	To highlight the role of Gandhi Ji and Champaran episode in Independence movement.
	The Rattrap (L-4)	To understand the value of honesty, kindness, compassion
	Keeping Quiet (P-3)	To highlight the importance of introspection and mutual
	Recping Quiet (F-3)	understanding
August	Reading Comprehension	To enhance comprehension skill
	Writing: Invitation/ Replies	To develop the skill of extending cordial request to invite, accept
	(Informal)	or decline the invite
	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
	On the Free of the Co	The large that is a farmed the mark have a farker in the skellenge of
	On the Face of it (S-6)	To draw attention towards the problems of physically challenged
September	Panding Comprehension	people Revision
September	Reading Comprehension	
	Writing: Speech/Debate	To develop skill of putting forth arguments both in favour or against the topic
	Aunt Jennifer's Tigers(P-6)	To create awareness about problems related to gender discrimination
	The Interview (L-7)	To introduce the concept of Interview in the arena of journalism.
October	Reading Comprehension	Revision
	Writing Skills	Revision
	Going Places (L-8)	To create awareness about the harms of over fantasizing and hero worshipping
November	Reading: Comprehension	Revision
TAUACHINGI	Reading. Comprehension	INC VISIOII



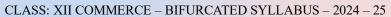




	Writing: Report	Revision
	Writing: Article	To enhance the skill of critical thinking and presenting ideas in a
	coherent manner	
	Letter Writing Revision	
	Memories of Childhood (S-	To generate awareness about issues related to caste and creed
	8)	discrimination
December	Pre-Board I	Complete Syllabus
January	Pre-Board II	Complete Syllabus

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Reading Comprehension,	Reading Comprehension,	Reading Comprehension,	Complete Syllabus
Notice, Letter to Editor,	Notice, Invitation (Formal	Notice, Invitation	
Report Writing (School	& Informal) & Replies,	(Formal & Informal) &	
Magazine)	Letter to Editor, Job	Replies, Letter to Editor,	
Literature- The Last	Application. Report	Job Application. Report	
Lesson, Lost Spring, My	Writing (School Magazine	Writing (School	
Mother at 66, Keeping	& Newspaper)	Magazine & Newspaper)	
Quiet, The Third Level,	Literature- The Last	Literature- The Last	
Tiger King	Lesson, Lost Spring, Deep	Lesson, Lost Spring,	
	Water, The Rattrap,	Deep Water, The Rattrap,	
	Indigo, Poets and Pancake,	Indigo, Poets &	
	My Mother at 66, Keeping	Pancakes, The Interview,	
	Quiet, A Thing of Beauty,	Going Places, My	
	The Third Level, Tiger	Mother at 66, Keeping	
	King, Journey to the End	Quiet, A Thing of	
	of the Earth, The Enemy	Beauty, Aunt Jennifer's	
	Internal Assessment- ASL	Tigers, A Roadside Stand	
	& Project	The Third Level, Tiger	
		King, Journey to the End	
	8.0	of the Earth, , On the	
		Face of It, Memories of	
		Childhood	





5

SUBJECT – ACCOUNTANCY

Month	Chapter	Learning objectives/Learning outcomes	Subject Enrichmen t Activity	Project
April	Accounting for Partnership Firms	 After studying this chapter students would be able to state the meaning of partnership, partnership firm and partnership deed. 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 learn the 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. 	Relay	
May	Valuation of Goodwill. Change in Profit sharing Ratio among existing Partners. Admission of a Partner	Students would be able to understand the- Meaning, Need & Methods of Valuation of Goodwill. Students would be able to understand the - 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 After studying this chapter students would be able to 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 reassessment of liabilities, treatment of reserves and accumulated profits, adjustment of capital accounts and preparation of balance sheet of the new firm.	Quiz based on formulas Relay	
July	Retirement & Death of a Partner	Students would be able to understand: • 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 reassessment of liabilities and adjustment of accumulated profits and reserves on	Class Seminar	





and the same of th	C	LASS: XII COMMERCE – BIFURCATED SYLLABUS – 2024 – 23	YEAR	
		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. • discuss the preparation of the accounts of the remaining partners and the balance sheet of the firm after retirement / death of a partner.		
August	Dissolution of a Partnership firm Issue of shares	 Students would be able to understand: 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 realization account and other related accounts. Students would be able to understand the: - Accounting treatment of issue of shares for cash 	Class Seminar Quiz on Journal	
		 and consideration other than cash at par or at premium. Forfeiture and re-issue of shares Preparation of Balance Sheet depicting Share Capital 	Entries	
September	Issue of Debentures	 Students would be able to understand: 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	
October	Financial statements of a Company Analysis of Financial Statements Ratio Analysis	 Students would be able to understand the 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. Students would be able to understand the- The meaning, objectives and limitations of financial statement analysis. Various Tools of Financial Statement Analysis. Students would be able to understand the-Meaning, significance, classification & computation of Accounting Ratios. 	Presentation related to Financial Statements and Tambola	CBSE Specific Project
	Cash Flow Statement	 Liquidity Ratios Solvency Ratios Activity Ratios Profitability Ratios Students would be able to understand the:- 	Project	



5	
1	١
	١

	CENSS. AN COMMERCE BIT CROSS EEE BOOK 2021 23			
		 Meaning & objectives of Cash Flow Statements Preparation of CFS as per AS3. 		
November - February	Revision and F	re-Board		

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Partnership Accounting-	Partnership Accounting	Partnership Accounting	Partnership Accounting
Fundamentals	Company Accounts -	Company Accounts	Company Accounts
 Valuation of 	Issue of Shares	Analysis of Financial	Analysis of Financial
goodwill		Statements	Statements
 Change in profit sharing ratio 			X 5
Admission of a partner			7





<u>SUBJECT – BUSSINESS STUDIES</u>

Month	Name of the Chapter	Objective/Aim	Subject Enrichment Activity	Project
April	Nature & Significance of Management Principles of Management	 After studying this chapter students would be able to explain: The concept, objectives and importance of Management. Meaning of effectiveness and efficiency. Nature of Management. Role of Levels of Management. Functions of management. Concept and importance of Coordination. After studying this chapter students would be able to explain: Concept and importance of management principles. Principles developed by Henry Fayol. Principles and techniques of scientific management. 	Dumb Charades, Role Play and project on Principles of Management.	
May	Business Environment Planning	 Contributions of Fayol and Taylor. After studying this chapter students would be able to explain: Concept and importance of business environment. Dimensions of Business environment. Concept and objectives of Demonetization. After studying this chapter students would be able to explain: Concept of Planning. Planning process. Importance and limitations of Planning. Types of Plans. 	Collage of newspaper cuttings. Project on Business Environment. Preparation of a plan for an event.	Project as per CBSE guidelines.
July	Organizing Staffing		Development of Organisational structure for the Committee for an event. Filling of posts in the Organisational	





		 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. Specialized duties and activities performed by Human Resource Management. Meaning and sources of Recruitment. Merits and Demerits of Internal and External Sources of Recruitment. Meaning and process of selection. Concept of Training and Development. Difference between Training and Development. Importance of training to the organisation and to the employees. Methods of training - on the job and off the job induction training, vestibule training, apprenticeship training and internship training. 	Structure created.	
August	Directing		Report on Leadership styles of top 10 Companies Presentation on Common Communication Barriers (including cartoons)	
	Controlling Consumer Protection	communication.	Flowchart depicting process of Controlling. Case Studies on Various Judgements given by	
		Legal redressal machinery under Consumer Protection Act, 2019.	Consumer Courts.	





		CLASS: All COMMERCE – BIFORCATED SYLLABOS – 202	4 - 23
		 Remedies available to the consumer under Consumer Protection Act, 2019. Role of consumer organizations and NGOs in protecting consumers' interests. 	
September	Marketing Management	After studying this chapter students would be able to explain: Concept, features and functions of Marketing. Marketing Philosophies Concept and elements of Marketing mix. Concept of Product Mix. Concept of branding, labelling and packaging. Concept of Price Mix. Factors determining price of a product. Concept of Physical Distribution. Components of Physical Distribution. Channels of Distribution. Concept of Promotion Mix. Elements of Promotion Mix. Concept of Advertising, Personal selling and Sales Promotion. Concept of Public Relations.	Survey and project on Marketing
October	Financial Management Financial Markets	 After studying this chapter students would be able to explain: Concept and role of financial management. Objectives of Financial management. Financial decisions taken by Financial Manager and the factors affecting them. Concept, objectives importance of Financial Planning . Concept of Capital Structure and factors determining the choice of an appropriate capital 	Study on the working capital and fixed capital requirements of different industries. Study of Capital Structure of different companies. Role Play on Trading Procedure

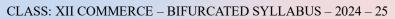




November	Revision
December	Revision
January	Revision
February	Revision

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Ch. 1 to Ch. 4 (Book I)	Book I: Ch: 1 to 8	Complete Syllabus	Complete Syllabus



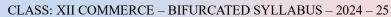




SUBJECT – ECONOMICS

Month	Name of the Chapter	Objective/Aim	Subject Enrichment Activity	Project
April	Circular flow of income Some basic concepts of Macro Economics Indian Economy on the eve of independence	To acquainting the students with circular flow of money in two sector economy,real and money flow To familiarize the students with the meaning of Meaning of Macro Economics, some basic concepts, Meaning of real and nominal National Income 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	calculation of	
May	Measurement of National Income Indian economy (1950-1990	To make the students acquainting about GDP and its related aggregates, Value of output and value added' Three methods of calculating N.I. Income, Expenditure and Product method Students will come to know about the long-term objective of our plans to develop all the aspects of the Economy		Project
July	Money and Banking Determination of Income and employment Economic reforms since 1991	To enhance the knowledge of the students regarding Money—Its meaning. Supply of money. Money creation by commercial Banks. Central Banks—Meaning and its functions Aggregate Demand and its components, propensity to consume and save, Investment multiplier To acquainting the students regarding the need and features of LPG policy	Class presentation over fiscal and monetary measures to combat the situation of inflation and deflation.	
August	Determination of Income and employment Human capital formation Rural Development	1 7	Process of multiplier will be explained through class activity	
September	Employment	Employment-Growth, informalisation and other issues Revision & Half Yearly - Examination	Prepare a report on various schemes launched by Government to	







			create job opportunities			
October	Budget and the Economy Balance of payment Environment and sustainable development Development experience of India: A comparison with neighbors	To develop Awareness among Students about Meaning. objectives, components Revenue and capital Budget, Budget Deficit Revenue, Fiscal and Primary deficit BOP account-meaning and component Foreign Exchange Rate—Meaning of fixed, floating and managed floating exchange rate, Determinants of exchange rate in a free market. Environment and sustainable development—effects on economic development on resources and environment. To develop the awareness among students regarding comparative development of India and its neighboring countries other issues	major currencies of the world Approximately 70 lakh vehicles are added on roads of metropolitan cities. Which type of resources do you think are undergoing			
	neignoors	and its heighboring countries other issues	Prepare report on it.			
November	Revision and Pre-Board 1					
December	Revision and Pre-Board 2					
January	Revision and Board Practicals					
February	Revision and Board	Exams				

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Macro Eco Chap 1-4	Macro Eco- Unit 1-3	Complete Syllabus	Complete Syllabus
IED Chap 1-2	IED Chap 1 - 5		





<u>SUBJECT – MATHEMATICS</u>

Month	No. and Name of Chapter	Learning Objective	Enrichment Activities
April	Ch-3: Matrices	Use of matrix in the nature of solutions of systems of simultaneous equations.	
	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 = {(1, m): 1 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 a 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.
August	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	
September	Ch-10: Vector Algebra	To study vector, that are helpful in describing and analysing many physical solutions.	
	Revision and Half yearl	y	
October	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 Programming Problem graphically.





November	Ch-13: Probability Ch-13: Probability (Cont.)	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
	Pre-Board I		
December	Revision and Pre-Board	II	
January – February	Revision		S

Exam Syllabus

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Ch. 1, 2, 3, 4, 5, 6.	Ch. 1 to 10	Complete Syllabus	Complete Syllabus

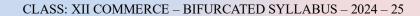
SUBJECT – COMPUTER SCIENCE WITH PYTHON





Month	Chapter	ASS: XII COMMERCE – BIFURCATED SYLI Objective / Aim	Lab Activity
	Name		
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	 Input a string and determine whether it is a palindrome or not; convert the case of characters in a string. Find the largest/smallest number in a list/tuple Input a list of numbers and swap elements at the even location with the elements at the odd location. Input a list/tuple of elements, search for a given element in the list/tuple. Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have scored marks above 75.
	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	1. Write a random number generator that generates random numbers between 1 and 6 (simulates a dice) using functions.
May	Ch – 3 Exception Handling in Python Ch – 4 Data File Handling	To make a student understand the concept of Exceptions and how to handle them. Types of errors. 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.	 WAP using try except block to implement exception and it handling. Read a text file and display the number of vowels / consonants/ uppercase/lowercase characters in the file. 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. Create a CSV file by entering user-id and password, read and search the password for given user-id.
July	Ch – 5 Data Structures in Python Ch – 6 Computer Networks	Data-structures: lists, stacks, & various operations associated with it. 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,	Write a Python program to implement a stack using list.





router, DNS, and web URLs, TCP;

E		,	2	
		•	-	ī
,	1		7	۲
1	۹			,
		-		4

August	Ch – 7 Relational Database and SQL	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 Relational databases: idea of a database and the need for it, relations, keys, 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.	Create a student table and insert data. Implement the following 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
Sontombor	Half Yearly Exa	minotion	other cases.
September October	Ch – 8	Interface Python with an SQL	Integrate COL with Duthen by importing
October	Interface Python With 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.
November	Revision		
	aim of the class p	project is to create something that is tang	ible and useful using Python file handling/

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.

Exam Syllabus

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Ch - 1, 2, 3, 4	Ch – 1 to 7	Complete Syllabus	Complete Syllabus

SUBJECT - INFORMATICS PRACTICES





Month	Unit Name	Chapter	Objective / Aim	Lab Activity
	Jan I (dill)	Name		
March & April	Unit 1: Data Handling using Pandas and Data Visualizatio n	Data Handling using Pandas -I	Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and data frames. Series: Creation of series from ndarray, dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing. Data Frames: creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration. Operations on rows and columns: add 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. Importing/Exporting Data between CSV files and Data Frames. (For practical's only)	 Create a panda's series from a dictionary of values and a ndarray Given a Series, print all the elements that are above the 75th percentile.
May & July		Data handling using Pandas – II Data Visualizati on	Descriptive Statistics: max, min, count, sum, mean, median, mode, quartile, Standard deviation, variance. Data Frame operations: Aggregation, group by, Sorting, Deleting and Renaming Index, Pivoting. Handling missing values – dropping and filling. Importing/Exporting Data between MySQL database and Pandas. Purpose of plotting, drawing, and saving of plots using Matplotlib (line plot, bar graph, histogram, pie chart, frequency polygon, box plot and scatter plot).	 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. Create a data frame for examination results and display row labels, column labels data types of each column and the dimensions. Filter out rows based on different criteria such as duplicate rows. Importing and exporting data between pandas and CSV file Given the school result data, analyses the performance of the students on different parameters, e.g subject wise or class wise. For the Data frames created above, analyze,





		CLASS. All CC	MMERCE – BIFURCATED SYLLABUS – 2024 -	
				and plot appropriate charts with title and legend. 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.
_	Unit 4: Societal Impacts	Societal Impacts	Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open-source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.	Explain the impact of technology on society including gender and disability issues.
	Unit 2: Database Query using SQL	Database Query using SQL	Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date 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)	 Create a student table with the student id, name, and marks as attributes where the student id is the primary key. Insert the details of a new student in the above table. Delete the details of a student in the above table. Use the select command to get the details of the students with marks more than 80. Find the min, max, sum, and average of the marks in a student marks table. Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by. Write a SQL query to order the (student ID,





				marks) table in descending order of the marks
October & November	Unit 3: Introduction to Computer Networks	Introducti on to Computer Networks	Introduction to networks, Types of networks: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Website: Introduction, 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	 Learn terminology related to networking and the internet. Identify internet security issues and configure browser settings.

Project Work:

The aim of the class project is to create tangible and useful IT applications. 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 the 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.

Exam Syllabus

Terminal	Half Yearly	Pre-Board I	Pre-Board II
UNIT-I	UNIT-I	UNIT-I	Complete Syllabus
Data Handling using	Data Visualization	Data Handling using	
Pandas-I	UNIT-IV	Pandas -I	
Data Handling using	Societal Impacts	Data Handling using	
Pandas-II	UNIT-II	Pandas -II	
	Database Query using	Data Visualization	
	SQL	UNIT-IV	
		Societal Impacts	
		UNIT -II	
		Database Query using	
		SQL	

SUBJECT - ARTIFICIAL INTELLIGENCE





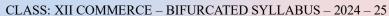
		LASS: XII COMMERCE – BIFURCATED SYLLABUS – 2024 – 25
Month	Unit Name	Learning Outcomes
April	Part A: Unit	Students will be able to:
	I:	Identify the barriers to active listening.
	Communicat	Identify the stages of active listening.
	ion Skills IV	Follow the steps towards removing barriers for active listening.
		Demonstrate basic writing skills.
		• Identify the basic parts of speech, such as nouns, pronouns, adjectives, verbs
		and adverbs.
		Use capitalization and punctuation rules for sentences.
		• Explain the usage of parts of speech and identify them in a sentence.
		• Identify supporting parts of speech, such as articles, conjunctions,
		prepositions and interjections.
		Identify the different parts of a sentence.
		Differentiate between active and passive voice.
		Compose different types of sentences.
M	D4 A . I I24	Students will be able to:
May	Part A: Unit	
	II: Self -	• Explain the meaning of motivation.
	Managemen	Describe the type of motives. Prof. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	t Skills IV	Differentiate between intrinsic and extrinsic motivation.
		Describe the meaning of positive attitude.
		Identify the steps for being positive in life.
		Identify ways to be result oriented.
		Make an action plan.
		Explain the meaning of personality.
		Describe basic personality traits.
		Describe common personality disorders.
	Part B: Unit	Different aspects of Model
	II: Model	Train, test, validate,
	Lifecycle	What are hyper parameters
		 Commonly used platforms to build and runmodels (Introduction)
		Recommended tools
		Links to different platforms Watson
		Lifecycle of an AI model
		• Build
		• Deploy
	A (• Retrain
July	Part A: Unit	Students will be able to:
	III: ICT	• Explain the importance and usage of spreadsheets, list different spreadsheet
	Skills IV	applications, open LibreOffice Calc and create a spreadsheet, identify
		components (parts) of a spreadsheet.
		• Identify type of data, open a spreadsheet, enter, edit and delete data, select
		multiple cells, save and close a spreadsheet, print a spreadsheet.
		• Add values directly in a spreadsheet, add values using formulas, add values
		using Sum() function, align (arrange) text in a cell, fit text into a cell, highlight
		the text.
		Sort data, add filters, protect spreadsheet with a password.
		 Describe the advantages of digital presentation, list various presentation
		software, list features of a presentation, create a new presentation, save a
		presentation, close a presentation, open a presentation, print presentation
		slides.
		• Add a slide to a presentation, delete a slide in a presentation, enter and edit
		text in a presentation, format text in a presentation.





		Insert shapes, insert clipart and images, change slide layout.
	Part B: Unit	Understanding the problem
	I: Capstone	Decomposing the problem through DT framework
	Project	Analytic Approach
		Data Requirements
		Data Collection
		Modelling approach
		How to validate model quality
		By test-train split
		 Introduce concept of cross validation
		Metrics of model quality by simple Maths and
		examples from small datasets – scaled up to capstone
		project (Apply)
		RMSE- Root Mean Squared Error
		MSE – Mean Squared Error
		MAPE – Mean Absolute Percent Error
		Introduction to commonly used algorithms and
		The science behind them
		Showcase through a compelling story
August	Part A: Unit	Students will be able to:
O	IV:	Explain the qualities of an entrepreneur.
	Entrepreneu	What is entrepreneurship.
	rial Skills IV	Identify barriers and fears related to becoming an entrepreneur.
		Identify the attitudes that make an entrepreneur successful.
		racinity the activaces that make an entrepreneur succession.
	Part B: Unit	Students will be able to:
	III: Story	The Need for Storytelling
	telling	Information processing and recalling stories
	through data	Why is storytelling important?
		Structure that story!
		How to create stories?
		Begin with a pen-paper approach
	A	Dig deeper to identify the sole purpose of your story
		• Use powerful headings
	A (2	Design a Road-Map
		Conclude with brevity
	Q Y	• Ethics of storytelling
		Types of Data and Suitable Charts
		Text [Wordclouds]
		Mixed [Facet Grids]
		Numeric [Line Charts/ Bar Charts]
		Stocks [Candlestick Charts]
		• Geographic [Maps]
		Stories During the Steps of Predictive Modeling
		Data Exploration
		Feature Visualizing
		Model Creation
		Model Comparisons Description:
		Best Practices of Storytelling
G .	D	
September	Revision and H	Ialf Yearly Examination







October	Part A: Unit Students will be able to:				
	V: Green	Understand the need of protecting environment			
	Skills IV	Understand Green jobs and its significance			
November	Revision and Pre-Board I				
December	Revision and Pre-Board II				
January	Revision and P	Practical Examination.			
February	Revision				

Terminal Test	Half Yearly	Pre – Board I	Pre – Board II
Part A: Unit I, II	Part A: Unit I, II, III, IV	Complete Syllabus	Complete Syllabus
Part B: Unit II	Part B: Unit I, II, III		, 9





Month	Name of the Chapter	Objective/ Aim	Lab Activity / Enrichment Activity	Project
April	Ch-1 Variations in Psychological Attributes Ch-2 Self and Personality	 After studying this chapter students would be able to: Develop the understanding of the importance of individual differences in human functioning. Explain different methods used to assess psychological attributes. Develop the understanding of how intelligence has different meanings in different cultures. After studying this chapter students would be able to: Develop the understanding of concept of self and learn ways for self- regulation of behavior. Learn different methods of Personality assessment. iii. Develop insight into the development of a 	Intelligence Test Personality Test	
May	Ch-3 Meeting Life Challenges Ch- 4 Psychological Disorders	 healthy personality. After studying this chapter students would be able to: Develop an understanding of the nature, type, and sources of stress as life challenges. Learn ways to cope with stress. Develop the understanding of the factors that promote positive health and well-being. After studying this chapter students would be able to: Develop the understanding of the basic issues in abnormal behavior and criteria used to identify such behavior. Explain the different models of abnormal behavior. iii. Describe the major psychological disorders. 		Developm ent of Case Profile: Using appropriat e Methods like Interview, Observatio n & Psycholog ical Tests.
July	Ch-5 Therapeutic Approaches	 After studying this chapter students would be able to: Familiarize themselves with the basic nature and process of Psychotherapy. Understand the use of psychological forms of intervention. iii. Develop the understanding of how people with mental disorders can be rehabilitated. 	Self- concept Test	
August	Ch-6 Attitude and Social Cognition	After studying this chapter students would be able to: • Understand what attitudes are, how they are formed and changed.	Interest Test	



н	-	_	
v	-		ij
7			۲
e		9	ı

		 Analyze how people interpret and explain the behavior of others. iii. Comprehend the presence of others influences our behavior. 		
September	Ch-7 Social Influence and Group Process	 After studying this chapter students would be able to: Develop an understanding of nature and types of groups and know how they are formed. Examine the influence of groups on individual behavior. iii. Describe the process of cooperation and competition. 	Anxiety Test	
October -	Revision & Pre	Board Examination	~~	
February				

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Ch: 1 & 2	Ch: 1 to 4	Complete Syllabus	Complete Syllabus





SUBJECT - COMMERCIAL ART

Month	Name of the Lesson	Learning Objectives
April	Ch. 1- Rajasthani school of miniature paintings	The objective of including the history of
11/111	1. Origin and development.	Rajasthani paintings for the students is to
	2. Sub school of Rajasthani school -	familiarize them with the various styles and
	i. Mewar	modes of art expression from different parts
	ii. Kishangarh.	of Rajasthani. This would enrich their vision
	iii. Jodhpur.	and enable them to appreciate and aesthetic
	iv. Jaipur.	sensibility to enjoy the beauty of nature and
	v. Bikaner.	life.
	vi. Bundi.	me.
	3. Main features or characteristics of Rajasthani	
	miniature paintings.	
Mari		The chiestive of including the history of
May	Ch. 2- Pahari school of miniature paintings	The objective of including the history of
	1. Origin and development	Pahari paintings for the students is to
	2. Sub school of Pahari school of miniature-	familiarize them with the various styles and
	i. Basohli.	modes of art expression from different parts
	ii. Guler.	of Pahari. This would enrich their vision and
	iii. Kangra.	enable them to appreciate and aesthetic
	iv. Chamba.	sensibility to enjoy the beauty of nature and
	v. Garhwal	life.
	3. Main features or characteristics	
	4. Study of some famous paintings	
July	Ch. 3- Mughal school of miniature paintings	The objective of including the history of
	1. Origin and development of Mughal school of	Mughal and Decani paintings for the
	miniature.	students is to familiarize them with the
	2. Main features or characteristics	various style and modes of art expression
	3. Study of some famous paintings	from different parts of Mughal. This would
	Ch. 4- Decani school of miniature paintings	enrich their vision and enable them to
	1. Origin and development of Decani school of	appreciate and aesthetic sensibility to enjoy
	miniature.	the beauty of nature and life.
August	2. Sub school of Decani school -	The objective of including the history of
	i. Ahmednagar.	Decani and Bengal paintings for the students
	ii. Golkonda.	is to familiarize them with the various style
	iii. B <mark>ij</mark> apur.	and modes of art expression from different
	iv. Hyderabad.	parts of Deccan and Bengal. This would
	v. Berar.	enrich their vision and enable them to
	3. Main features or characteristics,	appreciate and aesthetic sensibility to enjoy
	4. Study of some famous paintings.	the beauty of nature and life.
	Ch. 5- Bengal school of paintings	
	1. Evolution of Indian national flag	
September	2. (A) Origin and development of Bengal school	The objective of including the history of
	of paintings.	Bengal paintings for the students is to
	(B) Main features or characteristics	familiarize them with the various styles and
	3. Contribution of Indian artist in the struggle for	modes of art expression from different parts
	national freedom movement.	of Bengal. This would enrich their vision
	4. Study of some famous paintings	and enable them to appreciate and aesthetic
	State of some fumous punitings	sensibility to enjoy the beauty of nature and
		life.
October	Ch. 6- The modern trends in Indian art	This would enable and enrich in students'
October		
	1. Introduction	artistic sense and sensibility towards Indian



-		7			2
н		•	_	₹	
.,				v	٦
	Δ			9	1
-1	•	٠.		7	4

	2. Study of following works of contemporary (modern) Indian art.	Modern art Paintings, Graphic print and Sculptures.
	3. 1 – Paintings, 2 - Graphic print, 3 - Sculptures	
November	Revision	

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Rajasthani school of	Decani school of miniature	Whole Syllabus	Whole Syllabus
miniature, Pahari school	paintings, Indian national		
of miniature, Mughl	flag, Bengal school of art.		
school of miniature			





SUBJECT – HOME SCIENCE

Month	Name of the Chapter	Objective/ Aim	Lab Activity/ Enrichment Activity	Project
April	Ch.1 Work, livelihood, and career. Ch.2 Clinical 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. 	Planning of therapeutic meals	
	Ch.3 Public Health and Nutrition	 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. 		
May	Ch.4 Food Processing	 understand what food processing and technology is, its history, 	Prepare a PPT on different types of	Project work
	Ch.5 Food Quality and Food Safety	 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 	hazards	
July	Ch.6 Early Childhood Care and Education Ch.7 Management of Support Services, Institutions and Programmes for Children, Youth and Elderly	 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 		
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	





н	7	•	
			4
7	1		
1			,
h			•

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	Pre-Board I					
December	Pre-Board II					
January	Revision		A			
February	Revision		AY			

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Ch-1 Work, Livelihood	Ch-1 Work, Livelihood	Whole Syllabus	Whole Syllabus
and Career	and Career		•
Ch-2 Clinical Nutrition	Ch-2 Clinical Nutrition		
Ch-3 Public Health and	Ch-3 Public Health and	1	
Nutrition	Nutrition		
Ch-4 Food Processing	Ch-4 Food Processing		
Ch-5 Food Quality and	Ch-5 Food Quality and		
Food Safety	Food Safety		
Ch-6 Early Childhood	Ch-6 Early Childhood		
Care and Education	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		
	Ch- 10 Care and		
	Maintenance of Fabric		





<u>SUBJECT – HINDUSTANI MUSIC VOCAL</u>

Month	Name of the Topic	Objective/ Aim	Lab Activity/ Enrichment Activity	Project
April	Raag Bageshree parichay,\$ drut khayal, Taal Roopak parichay,\$ taal notation thah,dugun,tigun \$ chargun 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. jhaptaal 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 & jhaptaal 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 Tigun & chargun laykari Taal Dhamar parichay & thah, dugun , tigun and chargun 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 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, tigun & chargun 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.	Practice of raag, taal & tarana in detail.	Practice & demonstration	



=	7
₹.	-
10	
	9
VE	NIDE

	Raag Bhairav drut khayal		of different			
	with Alap -Taan.		raag & taal.			
	Revision and Pre-Board I					
December	Pre-Board II					
January	Revision					

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Raag Bageshree parichay	Raag malkuns drut	Alankar, kan, Meend,	Alankar, kan, Meend,
swar vistar, vilambit &	khayal, tarana & dhamar	khatka, Murki, Gamak,	khatka, Murki, Gamak,
drut khayal notation with	with notation. Raag	Alap, Taan, Gram,	Alap, Taan, Gram,
Alap taan, raag	Bageshree Vilambit &	Murchhna. Sangeet	Murchhna. Sangeet
malkauns parichay, drut	drut khayal notation Taal	Ratnakar, Sangeet	Ratnakar, Sangeet
khyal notation,Taal	Roopak, Jhaptaal &	Parizaat. Bade Gulam Ali	Parizaat. Bade Gulam Ali
Roopak & Jhap taal with	dhamar parichay &	Khan, Ali Khan, Faiyaaz	Khan, Ali Khan, Faiyaaz
layekaree & Taal	notation with laykaree.	Khan, Krishan Rao	Khan, Krishan Rao
Notation. topics-	topics- time theory of	Shanker pandit, Time	Shanker pandit, Time
Alankar, Meend, Kan,	raag, Sangeet Parijaat,	theory of raag, Tuning of	theory of raag, Tuning of
Gram, Murchhna,	tuning of Taan pura	Taan pura, Taal Roopak,	Taan pura, Taal Roopak,
Sangeet Ratnaker.	krishan shanker rao	Jhap taal, Dhamar	Jhap taal, Dhamar
Murkee, Alap taan, Bade	pandit,Bade Gulam Ali	parichay notation in	parichay notation in
Gulam Ali Khan, &	Khan. Sangeet Ratnakar,	laykaree. Raag Bageshree,	laykaree. Raag Bageshree,
Faiyaaz Khan.	Murchhna, gram,	Malkauns, & Bhairav	Malkauns, & Bhairav
	Alankar, Meend,	parichay, swar vistar, raag	parichay, swar vistar, raag
	Kan, Murkee, Alap taan.	pehchaan, notation -	pehchaan, notation -
		khayal, dhamar, & tarana.	khayal, dhamar, & tarana.