

CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <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	
	Tigor King (S. 2)	past, as a way to escape from anxiety and tension.	
Mon	Tiger King (S-2)	To point out problems caused by conceit of those in power	
May	Reading Comprehension	To enhance comprehension skill	
	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	
July	Writing: Letters- Job	Skill of corresponding through written communication	
	Application	Skill of concepting through written communication	
	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	
		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	
		the society	
	On the Face of it (S-6)	To draw attention towards the problems of physically challenged	
		people	
September	Reading Comprehension	Revision	
	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	
0.1.1	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 3. PUBLIC SCHOOL, GHAZIABAD	Revision	

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	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

Exam 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) &	\mathbf{O}
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	
		of the Earth, , On the	
		Face of It, Memories of	
		Childhood	

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CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – GEOGRAPHY</u>



Month	Name of the Chapter	Objective/Aim	Subject Enrichment Activity	Project
April	Fundamentals Of Human Geography (Book 1) CH-1Human Geography Nature and scope	To understand the fields and sub fields of Human Geography		
	Fundamentals Of Human Geography (Book 1) CH-2 World Population	To understand the age structure, sex ratio, rural- urban distribution in World		2
	India People and Economy (Book 2) CH-1 Population: Density, Growth and Composition	To understand the age structure, sex ratio, rural- urban distribution in India	Map work	
	Practical Work in Geography-II CH-1 Data – Its source and compilation	Type and sources of data: Primary, Secondary and other sources		C.B.S.E. based Project file from given topics/ chapters.
May	Fundamentals Of Human Geography (Book 1) CH-3 Human Development	To understand the concept of human development with reference to population ratio, literacy and occupational structure	Map work	
	India People and Economy (Book 2) CH-2 Human Settlements	To understand the types and distribution of settlements		
	Practical Work in Geography-II CH-2 Data Processing	Tabulating and processing of data, measures of central tendency		C.B.S.E. based Project file from given
	Practical Work in Geography-II CH- 3 Graphical Representation of data	General rules for drawing graphs, diagrams and maps		topics/ chapters.
July	Fundamentals Of Human Geography (Book 1) CH-4 Primary Activities	To understand the types and distribution of agricultural practices around the globe	Map work	
	Fundamentals Of Human Geography (Book 1) CH- 5 Secondary Activities	To understand the growth and development of various types of industries, Industrial regions		
	India People and Economy (Book 2) CH-3 Land Resources and Agriculture	To understand the land use categories and agricultural land use in India, crop distribution	Map work	
	India People and Economy (Book 2) CH-4 Water Resources	To understand the importance of water as a resource	Map work and case study	

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	CLASS: XII HU	MANITIES – BIFURCATED SYLLABUS	5 - 2024 - 25	YEARS
0	Fundamentals Of Human Geography (Book 1) CH- 6 Tertiary and Quaternary Activities	To understand the growth and development of various types of industries.		
	Fundamentals Of Human Geography (Book 1) CH-7Transport and Communication	To understand the different types of means of transport and communication connecting countries of the world	Map work	
	India People and Economy (Book 2) CH-5 Mineral and Energy Resources	To understand the distribution and economic importance of different types of minerals	Map work and case study	0
	India People and Economy (Book 2) CH-6 Planning and Sustainable Development in Indian Context	To understand the importance of planning and sustainability for the development of an area	Case studies	
-	Fundamentals Of Human Geography (Book 1) CH- 8 International Trade	To understand concerns related to international Trade		
	India People and Economy (Book 2) CH-7Transport and Communication	To understand the different types of means of transport and communication connecting important centres across India.	Map work	
	Revision and Half Yearly Ex	amination		
October	India People and Economy (Book 2) CH-8 International Trade	To understand the changing patterns of composition of India's trade	Map work	
	India People and Economy (Book 2) CH-9 Geographical Perspective on Selected Issues and Problems	To understand the causes and consequences of different types of pollution, measures to be taken	Case study	
	Practical Work in Geography-II CH-4Use of Computer in Data Processing and	Hardware and software usage		C.B.S.E. based Project file from given topics/ chapters.
November	Revision and Preboard-I			
December	Revision and Preboard-II			
January	Revision			
February	Revision			



CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 Exam Syllabus



Terminal	Half Yearly	Pre-Board I	Pre-Board II
Book 1: CH- 1, 2	Book 1: CH-1,2,3, 4	Book 1& 2	Book 1 & 2
Book 2: CH- 1, 2	Book 2: CH-1, 2, 3	Complete syllabus	Complete syllabus



CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – POLITICAL SCIENCE</u>



Month	Name of the Chapter	Learning Objective/Outcome	Enrichment Activities
BOOK-1- C		Politics & BOOK-2- Politics in India Since Independ	lence
April	B2 Ch 1-	Nation and Nation Building. Sardar Vallabh Bhai	Quiz
1 PI II	Challenges of	Patel and Integration of States. Legacy of partition:	Quiz
	Nation-Building	challenge of 'refugee' Resettlement. Political	
		conflicts over language. Linguistic Organization of	
		States.	
	B2 Ch 2 -Era of	Changing nature of India's Economic Development	
	One-Party	Planning Commission and Five-Year Plans,	
	Dominance	National Development Council, NITI Aayog.	6
		Two models of development Design or plan of	
		development. Aims and objectives of the first two	
	B2 Ch 3. Politics of	five-year plans. • Replacement of Planning	
	Planned	Commission by National Institution for	
	Development	Transforming India (NITI Aayog)	
May	B1 Ch1- The End	Disintegration of Soviet Union, Unipolar World,	Cbse Project
	of Bipolarity	Middle East Crisis – Afghanistan, Gulf War,	
		Democratic Politics and Democratization – CIS and	
	B1 Ch 2 -	the 21st Century (Arab Spring) Organizations: European Union, ASEAN, SAARC,	
	Contemporary	BRICS. Nations: Russia, China, Israel, India, Japan	
	Centres of Power	and South Korea	
	B1 Ch 3	Conflicts and efforts for Peace Democratization in	
	Contemporary	South Asia: Pakistan, Nepal, Bangladesh, Sri	
	South Asia	Lanka, Maldives.	
July	B2 Ch 4-India's	Principles of Foreign Policy; India's Changing	Youth Parliament
v	External Relations	Relations with Other Nations: US, Russia, China,	
		Israel; India's Relations with its Neighbours:	
		Pakistan, Bangladesh, Bhutan, Nepal, Sri Lanka and	
		Myanmar; India's Nuclear Programme.	
	B1 Ch 4 -	Principal Organs, Key Agencies: UNESCO,	
	International	UNICEF, WHO, ILO, Security Council and the	
	Organizations	Need for its Expansion.	
August	B1 Ch 5 Security in	Security: Meaning and Types; Terrorism.	Presentation
	the Contemporary		
	World. B1 Ch 6 -	Environmental Meyoments, Clobal Warming and	
	Environment and	Environmental Movements, Global Warming and Climate Change, Conservation of Natural	
	Natural Resources	Resources.	
	B2 Ch 5.	Challenge of Political Succession after Nehru •	
	Challenges to	Split in Congress and opposition unity. New	
	Restoration of the	Congress led by Indira Gandhi • Restoration of the	
	Congress System	Congress system.	
September	B1 Ch 7-	Globalization: Meaning, Manifestation and Debates	
promoti	Globalization	S, Third States and Decoulds	
	B2 Ch 6 The	One Party Dominance, Total Revolution, Ram	
	Crisis of	Manohar Lohia and Socialism, National	
	Democratic Order	Emergency, Democratic Upsurges	

	CLASS:	XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25	5
October	B2 Ch 7- Regional Aspirations B2 Ch 8 -Recent	Rise of regional parties. Punjab Crisis. The Kashmir Issue, Movements for Autonomy. Era of Coalitions, National Front, United Front,	Debate
	Developments in Indian Politics	United Progressive Alliance (UPA) – I & II, National Democratic Alliance (NDA) I, II, III & IV, Issues of Development and Governance.	
November	Pre-Board and Revis	ion	

Terminal	Half Yearly	Pre-Board I	Pre-Board II
Book 1: CH - 1, 2	Book 1: CH -1,2, 3,4,5,6	Complete syllabus	Complete syllabus
Book 2: CH – 1, 2,3	Book 2: CH – 1,2,3,4,5		6

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CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – ECONOMICS</u>



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	treatment of various items in the 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	Short term equilibrium, Meaning of full and involuntary unemployment Problem of excess and deficient demand, measures to correct it—Fiscal and monetary policy To make the learners aware regarding the meaning of human capital, human capital formation, its sources, Importance of education To make the learners aware regarding the current challenges faced the Indian economy with reference to rural development	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		
November	Revision and Pre-Be	oard 1			
December	Revision and Pre-Board 2				
<mark>January</mark>	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 <u>- 5</u>		
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CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <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 A 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 yearly			
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.	



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November	Ch-13: Probability 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
	(Cont.)		
	Pre-Board I		
December	Revision and Pre-Board	II	
January – February	Revision		6

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

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July

CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – COMPUTER SCIENCE WITH PYTHON</u>



Month	Chapter	Objective / Aim	Lab Activity
March - April	Name 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
	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	marks above 75. 1. Write a random number generator that generates random numbers between 1 and 6 (simulates a dice) using functions.
Мау	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.

Data-structures: lists, stacks, &

Structure of a network: Types of

networks; concept of a client and server; Network devices such as NIC, switch, hub, router, and access

networks, cloud and IoT, public vs. private cloud, wired and wireless

various operations associated with it.

Ch – 5 Data

Structures in

Python Ch – 6

Computer

Networks

3. Create a CSV file by entering user-id and password, read and search the

1. Write a Python program to implement

password for given user-id.

a stack using list.

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		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	
August	Ch – 7 Relational Database and SQL	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 other cases.
September	Half Yearly Exa		
October	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.
November	Revision		
Python-SQL	-	should be done in groups of two to thre	ible and useful using Python file handling/ e students. The aim here is to find a real-

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



CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – INFORMATICS PRACTICES</u>



Month	Unit Name	Chapter Name	Objective / Aim	Lab Activity
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	e	Data handling using Pandas – II	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.	 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
		Data Visualizati on	Purpose of plotting, drawing, and saving of plots using Matplotlib (line plot, bar graph, histogram, pie chart, frequency polygon, box plot and scatter plot).	1. Given the school result data, analyses the performance of the students on different parameters, e.g subject wise or class wise.





		CLASS: XII HU	MANITIES – BIFURCATED SYLLABUS – 2024	
				 For the Data frames created above, analyze, and plot appropriate charts with title and legend. 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.
August	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.





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				7. 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.

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	



Unit Name

Part A: Unit

Month

April

CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – ARTIFICIAL INTELLIGENCE</u>

Learning Outcomes

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.
May	Part A: Unit	Students will be able to:
lviay	II: Self -	Explain the meaning of motivation.
	Managemen	Describe the type of motives.
	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
	α	• Deploy
	AV.	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.
		software, list features of a presentation, create a new presentation, save a
		presentation, close a presentation, open a presentation, print presentation
		slides.
		presentation, close a presentation, open a presentation, print presentation

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	CI	LASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25
		• 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
	Tiojeet	Data Requirements
		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:
	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.
	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!
	A	How to create stories?
		• Begin with a pen-paper approach
		• Dig deeper to identify the sole purpose of your story
		 Use powerful headings
	QY	Design a Road-Map
		Conclude with brevity
		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
		Model Comparisons Best Practices of Storytelling



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September	Revision and Half 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 Practical Examination.	
February	Revision	

Exam Syllabus

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		



CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – PSYCHOLOGY</u>



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 healthy personality. 	Intelligence Test Personality Test	
May	Ch-3 Meeting Life Challenges Ch- 4 Psychological Disorders	 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	

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		 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 - February	Revision & Pre -	- Board Examination	

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

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CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – COMMERCIAL ART</u>



Month	Name of the Lesson	Learning Objectives
April	Ch. 1- Rajasthani school of miniature paintings	The objective of including the history of
ľ	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.	
	3. Main features or characteristics of Rajasthani	Co.
	miniature paintings.	
	4. Study of some famous paintings.	
May	Ch. 2- Pahari school of miniature paintings	The objective of including the history of
Widy	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	inc.
	 4. Study of some famous paintings 	
July	Ch. 3- Mughal school of miniature paintings	The objective of including the history of
July		The objective of including the history of
	1. Origin and development of Mughal school of miniature.	Mughal and Decani paintings for the students is to familiarize them with the
	 Main features or characteristics 	
		various style and modes of art expression
	3. Study of some famous paintings Ch. 4- Decani school of miniature paintings	from different parts of Mughal. This would 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
August		Decani and Bengal paintings for the students
	i. Ahmednagar. ii. Golkonda.	is to familiarize them with the various style
	iii. Bijapur.	and modes of art expression from different
		parts of Deccan and Bengal. This would
	iv. Hyderabad. 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	the beauty of nature and me.
	1. Evolution of Indian national flag	
September	2. (A) Origin and development of Bengal school	The objective of including the history of
September	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
	. Stady of bonne funitous 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'
Second	1. Introduction	artistic sense and sensibility towards Indian
IV D	B. PUBLIC SCHOOL, GHAZIABAD	

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

Exam Syllabus

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			

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CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – HOME SCIENCE</u>



Month	Name of the Chapter	Objective/ Aim	Lab Activity/ Enrichment Activity	Project
April	Ch.1 Work, livelihood, and career.	 Explain meaningful work, livelihood, careers, and entrepreneurship. Understand the concepts of standard of living and quality of life. 	Planning of therapeutic meals	
	Ch.2 Clinical Nutrition	• Understand and describe the significance and scope of clinical nutrition and dietetics.	Ġ	
	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. 	00.5	
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	• understand the basic principles of Early Childhood Care and Education (ECCE) as they apply to Indian society.		
	201	• Understand the importance of early care and learning experiences for children.		
	Ch.7 Management of Support Services, Institutions and Programmes for Children, Youth and Elderly	 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	 Discuss the concepts of design. Recognise the elements that constitute design. 	Flip book on principles/ elements of	
	Ch. 9 Fashion Design and Merchandising Ch. 10 Care and Maintenance of Fabric .D.B. PUBLIC SCHOOL, GH	 Describe the fundamentals of fashion. Discuss the significance of care and maintenance of fabrics and textile products 	design	24

CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 Ch. 11 Hospitality September Flow chart on Explain the importance of hospitality • Management different management. Describe the functioning of functions of • housekeeping housekeeping department. department October Ch. 12 Consumer Prepare own food • Understand the role of Consumer Survey on label of any Education different **Education and Protection** Ch. 13 Development product laws for • Understand the importance of Communication and development Communication and consumers. Journalism Journalism for social change and development November Pre-Board I December Pre-Board II January Revision February Revision

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		
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		



CLASS: XII HUMANITIES – BIFURCATED SYLLABUS – 2024 – 25 <u>SUBJECT – HINDUSTANI MUSIC VOCAL</u>



d p tt B M M M K K K K K K K K K K K K K K K K	Raag Bageshree parichay,\$ drut khayal, Taal Roopak parichay,\$ taal notation hah,dugun,tigun \$ chargun Brief Description- Alankar, Meend, Kan, Gram, Murcchna, Life Sketch- Bade Gulam Ali Khan, \$ Sangeet Ratnaker. Raag Bageshree Vilambit Khayal with Notation \$ Alap Taan. Raag Malkauns parichay \$ drut Khayal. haptaal parichay	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. To give knowledge of Vilambit laya through vilambit khayal. Basic knowledge of raag malkauns.	Practice of Raag & taal in practical class. Practice of Raag & taal in	Music Practical
May R K R d	Raag Bageshree Vilambit Khayal with Notation \$ Alap Taan. Raag Malkauns parichay \$ Irut Khayal.	laya through vilambit khayal. Basic knowledge of raag malkauns.	Raag & taal in	
T	Thah, dugun Life Sketch- Faiyaaz Khan. Murkee, Alap -Taan.	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.	practical class.	file.
b al N	Raag malkauns and raag bageshree drut khyal with laap taan. Notation of taal roopak & haptaal 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.	
d: T cl T th cl T S	Raag Malkauns Tarana & Irut Khayal with Alap -Taan Faal Jhap taal Tigun & chargun laykari Faal Dhamar parichay & hah, dugun , tigun and chargun laykari. Fime 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.	
w D n L S	Raag Malkauns drut Khayal with Alap taan, Taal Dhamar Dugun, tigun & chargun taal notation. Life Sketch-Krishan rao Shanker Pandit, Tuning of aan 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 R D th	Raag Bhairay Parichay Dhamar in raag malkauns hah \$ dugun.laykari \$ Notation.	Basic introduction of raag bhairay. Practice of our ancient singing style Dhamar.	Practice of raag, drut khyal & dhamar in practical class.	
	Malkauns- Dhamar with aykari.Tarana with Notation.	Practice of raag, taal & tarana in detail.	Practice & demonstration	

M A A A		
	K S /	

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