

BHARATIYA VIDYA BHAVAN

YEAR PLAN-STD XII

ENGLISH CORE - 2021 - 2022

MONTH	TOPICS
APRIL & MAY (16 DAYS)	<ul style="list-style-type: none">● THE LAST LESSON● LOST SPRING● MY MOTHER AT SIXTY SIX● AN ELEMENTARY SCHOOL CLASSROOM IN A SLUM● THE THIRD LEVEL
JUNE (24 DAYS)	<ul style="list-style-type: none">● KEEPING QUIET● DEEP WATER● ADVERTISEMENTS - CLASSIFIEDS & DISPLAY ADS
JULY (24 DAYS)	<ul style="list-style-type: none">● THE RATTRAP● THE ENEMY● A THING OF BEAUTY● NOTICE● POSTER
AUGUST (15 DAYS)	<ul style="list-style-type: none">● AUNT JENNIFER'S TIGERS● SHOULD WIZARD HIT MOMMY● JOURNEY TO THE END OF THE EARTH● REPORT WRITING (NEWSPAPER AND MAGAZINE)● ARTICLE WRITING
SEPTEMBER(23 DAYS)	<ul style="list-style-type: none">● INDIGO● POETS AND PANCAKES● TIGER KING● INVITATION -FORMAL & INFORMAL● REPLY TO INVITATION - FORMAL & INFORMAL● LETTER PLACING ORDER AND SENDING REPLIES

OCTOBER (19 DAYS)	<ul style="list-style-type: none"> ● THE INTERVIEW ● ON THE FACE OF IT ● EVANS TRIES AN O- LEVEL ● SPEECH ● DEBATE
NOVEMBER (23 DAYS)	<ul style="list-style-type: none"> ● GOING PLACES ● A ROADSIDE STAND ● LETTER OF ENQUIRY ● LETTER ASKING FOR AND GIVING INFORMATION ● LETTER OF COMPLAINT ● LETTER TO THE EDITOR ● JOB APPLICATION

BOARD ASL – 20 MARKS (TO BE DONE AS STIPULATED BY CBSE)			
NAME OF THE TEACHER	NAME OF THE SCHOOL	NAME OF THE TEACHER	NAME OF THE SCHOOL
PARVATHY KRISHNAN	BVM, GIRINAGAR	MILY SUSAN PAUL	BVV, THRIKKAKARA
PREETHA V R	BVM, ELAMAKKARA	NISHA P	BNV, VELLOOR
DEVAKI K	BVM, EROOR	MINI M	BMV THIRUVAMKULAM
VIJAYALAKSHMI PADMARAJ	BVM EROOR	PUSHPA K	BAV, KAKKANAD

BHARATIYA VIDYA BHAVAN, KOCHI**CLASS XII YEAR PLAN 2021-2022 SUBJECT: ACCOUNTANCY**

MONTH	UNIT/LESSON	TOPIC
		PART – I
MAY	2	ACCOUNTING FOR PARTNERSHIP FIRMS – FUNDAMENTALS
	3	GOODWILL- NATURE AND VALUATION
JUNE		RECONSTITUTION OF THE PARTNERSHIP FIRM:
	3	ADMISSION OF PARTNER
	3	CHANGE IN PROFIT SHARING RATIO AMONG THE EXISTING PARTNERS
JULY	4	RETIREMENT OF PARTNER
	4	DEATH OF A PARTNER
	5	DISSOLUTION OF PARTNERSHIP FIRM
		MID-TERM EVALUATION 1
		PART - II
AUG/SEPT	1	COMPANY ACCOUNTS- ACCOUNTING FOR SHARE CAPITAL
SEPTEMBER	2	COMPANY ACCOUNTS- ISSUE OF DEBENTURES
	2	COMPANY ACCOUNTS- REDEMPTION OF DEBENTURES
	1	NOT FOR PROFIT ORGANISATION (PART I)
OCTOBER	3	FINANCIAL STATEMENTS OF A COMPANY
	4	FINANCIAL STATEMENT ANALYSIS
	4	TOOLS OF FINANCIAL STATEMENT ANALYSIS- COMPARATIVE STATEMENTS & COMMON SIZE STATEMENTS
		TERM END EXAMINATION
NOVEMBER	5	ACCOUNTING RATIOS
	6	CASH FLOW STATEMENT
DECEMBER		FIRST MODEL EXAMINATION
		BVM, ELAMAKKARA ARCHANA MARAR BVV, THRIKKAKARA MINI MENON BVM, EROOR DHANYA V BAV, KAKKANAD DEEPA VARGHESE BVM, GIRINAGAR PADMA VIJAYAN BMV, THIRUVANKULAM SAJITH S BNV, VELLOOR SHEEJA AUGUSTHY

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA		
YEAR PLAN 2021-2022		
BUSINESS STUDIES - STD XII		
MONTH	UNIT/LESSON	TOPICS
APRIL	1	Nature and Significance of Management
MAY	2	Principles of Management
JUNE	3	Business Environment
JUNE / JULY	11	Marketing
JULY	4	Planning
MID TERM EVALUATION I (25 Marks)		
AUGUST	5	Organising
AUGUST /SEPTEMBER	6	Staffing
SEPTEMBER	7	Directing
	8	Controlling
OCTOBER	10	Financial Markets
TERM END EXAMINATION (80 Marks)		
NOVEMBER	12	Consumer Protection
	9	Financial Management
MODEL EXAMINATION (80 Marks)		
PROJECT WORK – (20 Marks)		

SEEN AND SIGNED:

1.BVM, GIRINAGAR – DEEPA V MENON

2.BVM, ELAMAKKARA – ANNA VARGHESE

3.BVM, EROOR – DEEPA T

4.BAV, KAKKANAD – SUDHA VARMA

5.BVV, THRIKKAKARA – VIJAYALAKSHMI B

6.BMV, THIRUVAMKULAM – NIRMALA V K

7.BNV, VELLOOR – MANJU BALAN

BHARATHIYA VIDYA BHAVAN KOCHI KENDRA			
APPLIED MATHS XII 2021-2022			
YEAR PLAN			
MONTH	UNIT	TOPIC	
APRIL/MAY	2	ALGEBRA	
JUNE		ALGEBRA (contd....)	
	3	CALCULUS	
JULY		CALCULUS (contd....)	
AUGUST	4	PROBABILITY DISTRIBUTIONS	
MID TERM EVALUATION 1 (Integration, Differential equations and Probability distributions not included)			
SEPTEMBER	5	INFERENCE STATISTICS	
	6	INDEX NUMBERS AND TIME BASED DATA	
OCTOBER	1	NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS	
TERM END EVALUATION 1(Units 6 & 1 not included)			
NOVEMBER	7	FINANCIAL MATHEMATICS	
	8	LINEAR PROGRAMMING	
MODEL EXAMINATION 1			
NAME OF THE SCHOOL		NAME OF TEACHER	
BHAVAN'S VIDYA MANDIR ELAMAKKARA		BINDHU VISHAL, MINI S NAIR	
BHAVAN'S VIDYA MANDIR EROOR		MINI RAJAGOPAL	
BHAVAN'S VIDYA MANDIR GIRINAGAR		ZEENA MANUEL, BEENA V NAIR	
BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD		ANURAJ N	
BHAVAN'S NEWS PRINT VIDYALAYA, VELLOR		SINI V	
BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM		MINU JOBI, REKHA R NAICK	

ACTIVITIES FOR STD XII 2021-2022

Practical: Use of spreadsheet

Graphs of an exponential function, demand and supply functions on Excel and study the nature of function at various points, maxima/minima
Matrix operations using Excel

Suggested practical using the spreadsheet

- i) Plot the graphs of functions on excel and study the graph to find out the point of maxima/minima
- ii) Probability and dice roll simulation
- iii) Matrix multiplication and the inverse of a matrix
- iv) Stock Market data sheet on excel
- v) Collect the data on weather, price, inflation, and pollution analyze the data and make meaningful inferences
- vi) Collect data from newspapers on traffic, sports activities and market trends and use excel to study future trends

List of Suggested projects (Class XI /XII)

- i) Use of prime numbers in coding and decoding of messages
- ii) Prime numbers and divisibility rules
- iii) Logarithms for financial calculations such as interest, present value, future value, profit/loss etc. with large values)
- iv) The cardinality of a set and orders of infinity
- v) Comparing sets of Natural numbers, rational numbers, real numbers and others
- vi) Use of Venn diagram in solving practical problems
- vii) Fibonacci sequence: Its' history and presence in nature
- viii) Testing the validity of mathematical statements and framing truth tables
- ix) Investigating Graphs of functions for their properties
- x) Visit the census site of India [http://www.censusindia.gov.in/Census_Data_2001/Census_Data_Online/Language/State ment3.htm](http://www.censusindia.gov.in/Census_Data_2001/Census_Data_Online/Language/State%20ment3.htm)
Depict the information given there in a pictorial form
- xi) Prepare a questionnaire to collect information about money spent by your friends in a month on activities like travelling, movies, recharging of the mobiles, etc. and draw interesting conclusions
- xii) Check out the local newspaper and cut out examples of information depicted by graphs. Draw your own conclusions from the graph and compare it with the analysis given in the report
- xiii) Analysis of population migration data – positive and negative influence on urbanization
- xiv) Each day newspaper tells us about the maximum temperature, minimum temperature, and humidity. Collect the data for a period of 30 days and represent it graphically. Compare it with the data available for the same time period for the previous year
- xv) Analysis of career graph of a cricketer (batting average for a batsman and bowling average for a bowler). Conclude the best year of his career. It may be extended for other players also – tennis, badminton, athlete
- xvi) Vehicle registration data – correlating with pollution and the number of accidents
- xvii) Visit a village near Delhi and collect data of various crops over the past few years from the farmers.
Also, collect data about temperature variation and rain over the period for a particular crop. Try to find the effect of temperature and rain variations on various crops
- xviii) Choose any week of your ongoing semester. Collect data for the past 10 – 15 years for the amount of rainfall received in Delhi during that week.
Predict the amount of rainfall for the current year
- xix) Weather prediction (prediction of monsoon from past data)
- xx) Visit Kirana shops near your home and collect the data regarding the sales of certain commodities over a month. Try to figure out the stock of a particular commodity which should be in the store in order to maximize the profit
- xxi) Stock price movement
- xxii) Risk assessments by insurance firms from data
- xxiii) Predicting stock market crash
- xxiv) Predicting the outcome of an election – exit polls
- xxv) Predicting mortality of infants

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
STD XII – BOTANY – YEAR PLAN 2021-2022**

MONTH	UNITS/LESSONS	CHAPTER
APRIL/MAY	7-Genetics and Evolution	5.Principles of Inheritance and variation
JUNE	7-Genetics and Evolution	5.Principles of Inheritance and Variation (Contd.)
JUNE/JULY	7-Genetics and Evolution	6-Molecular basis of inheritance
AUGUST	7-Genetics and Evolution 9-Biotechnology	6-Molecular basis of inheritance (Contd.) 11-Biotechnology Principles and Processes.
MID TERM EVALUATION -1 [AUGUST 2 to 6] CHAPTER 5		
SEPTEMBER	9-Biotechnology	11-Biotechnology Principles and Processes (Contd.) 12-Biotechnology and its Applications
OCTOBER	6-Reproduction	2-Sexual Reproduction in Flowering Plants
NOVEMBER	6-Reproduction 8-Biology In Human Welfare	1-Reproduction in Organisms 9- Strategies for Enhancement in food production
TERM END EXAMINATION – [OCTOBER 18 TO 29] CHAPTERS – 5, 6, 11		
REVISION FIRST MODEL EXAMINATION- [DECEMBER 03 TO 18] [FULL PORTIONS]		

BVM, Elamakkara	Sumi U Menon	BVM, Girinagar	Molly Poulouse C
BVM, Eroor	Radhika R	BAV, Kakkanad	Savitri Viswakumar
BVV, Thrikkakara	Anjali	BMV, Thiruvamkulam	Meera Venugopal
BNV, Vellore	Seema C		

BHARATIYA VIDYA BHAVAN, KOCHI
ZOOLOGY YEAR PLAN - STD XII (2021-22)

OFFLINE MODE

Month	Unit	Chapters
April/May	Unit 6	Chapter 3 : Human Reproduction
June (24 days)	Unit 6	Chapter 4 : Reproductive Health
	Unit 8	Chapter 8 : Human Health and Disease
July (24 days)	Unit 8	Chapter 10 : Microbes in Human Welfare
	Unit 10	Chapter 13 : Organisms and Populations
August (15days)	Unit 10	Chapter 13 : Organisms and Populations (contd)
	Unit 10	Chapter 15 : Biodiversity and Conservation
2nd-6th AUGUST ---MIDTERM EVALUATION- 1		
PORTIONS-(CHAPTER 3- HUMAN REPRODUCTION,CHAPTER 4 -REPRODUCTIVE HEALTH)		
September (23 days)	Unit 10	Chapter 15 : Biodiversity and Conservation (Contd.)
	Unit 10	Chapter 14 : Ecosystem
October (19 days)	Unit 10	Chapter 14 : Ecosystem (Contd.)
	Unit 7	Chapter 16 : Environmental Issues
18-29 October -- Term End Examination		
PORTIONS –(CHAPTER 3-HUMAN REPRODUCTION,CHAPTER 4-REPRODUCTIVE HEALTH, CHAPTER 8-HUMAN HEALTH AND DISEASE)		

November (23 days)	Unit 7	Chapter 7 : Evolution Chapter 9 : Strategies for Enhancement in Food Production (till section 9.2 Plant Breeding)
DECEMBER 3 - 18 December -- First Model Examination FULL PORTION		

BVM, Eroor	Sinimol P	BAV, Kakkanad	Parvathy Ammal
BVM, Elamakkara	Geetha Shyamsunder	BVM, Girinagar	Indu P
BVV, Thrikkakara	Sreekala Krishnadas	BMV, Thiruvamkulam	Mini k
BNV, Vellore	Dhanya K C		

BHARATIYA VIDYA BHAVAN ,KOCHI
YEAR PLAN -2021-2022
CHEMISTRY (043)

STD- XII

MONTH	TOPIC
	Unit II : Solutions Unit X : Haloalkanes and Haloarenes
JUNE	Unit X : Haloalkanes and Haloarenes(contd) Unit XI: Alcohols, phenols and Ethers
JULY	Unit XII : Aldehydes , Ketones and Carboxylic Acids UnitV : Surface Chemistry
AUGUST	Unit III : Electrochemistry Unit XIV : Biomolecules
MID TERM EVALUATION-I - AUGUST(2nd -6 th) <i>[Solutions(8) ,Haloalkanes and Haloarenes -(8),Alcohols,phenols and Ethers -(9),Numericals-5</i> TOTAL = 25 Marks]	
SEPTEMBER	Unit XIII : Amines Unit IV : Chemical Kinetics Unit VII : p- Block elements
OCTOBER	Unit VIII : d & f - Block Elements Unit IX : Coordination Compounds
MAY,JUNE,JULY & AUGUST,SEPTEMBER,OCTOBER - VIRTUAL CLASSES	
TERM END EXAMINATION - OCTOBER (18 th- 29th) <i>Solutions -(10) ,Haloalkanes and Haloarenes -(10), Alcohols ,phenols and Ethers -(12) ,</i> <i>Aldehydes , Ketones and Carboxylic Acids(16),Surface Chemistry(10),Electrochemistry(12),</i> Numericals(Electrochemistry5 + Solutions 3)=8, TOTAL = 70 Marks]	
NOVEMBER	UNIT -I: Solid state Unit VI : General Principles and Processes of Isolation of Elements Unit XV : Polymers Unit XVI : Chemistry in everyday life
FIRST MODEL EXAMINATION - DECEMBER - 3rd	
BHAVAN'S VIDYA MANDIR,EROOR - Mrs.BABY SAVITHRI BHAVAN'S VIDYA MANDIR,GIRINAGAR- Mrs.GEETHA .K BHAVAN'S VIDYA MANDIR,ELAMAKKARA- Mrs.DEEPTHI . U.T BHAVAN'S ADARSHA VIDYALAYA,KAKKANAD- Mrs.ELLORA JOSEPH BHAVAN'S VARUNA VIDYALAYA,THRIKKAKARA- Mrs.SARITHA.C BHAVAN'S NEWSPRINT VIDYALAYA,VELLOOR- Mrs.MARY ABY BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM- Mrs.LETHA.S	

BHARATIYA VIDYA BHAVAN, KOCHI

CLASS XII - YEAR PLAN 2021-2022

SUBJECT : COMPUTER SCIENCE (083)

Month	Unit	Topic
April/May	Unit I - Computational Thinking and programming -2	Functions
June	Unit III	Database Management(SQL+Connectivity)
July	Unit I -Computational Thinking and programming -2	File handling – Text and Binary Files
August	Unit I - Computational Thinking and programming -2	File handling – csv files Mid Term Assessment- 2nd to 6th August .Portions: Mysql, Connectivity, Functions [Files to be excluded for the Midterm] (No question from Variable length Arg)
September	Unit I- Computational Thinking and programming -2	<ul style="list-style-type: none">● Lists as covered in Class XI● Data Structure- Stacks, Queue and its applications● Using Python libraries● Idea of code efficiency
October	Unit II- Computer Networks	Computer Networks Term End Assessment 18-29 October (All portions for assessment except network)
November	Unit II- Computer Networks Unit I- Computational Thinking and programming -2	<ul style="list-style-type: none">● Computer Networks (Continued)● Recursion

BVB,Elamakkara – Ganga Varma

BVM, Girinagar – Sheila T R, Shanti R

BVM,Eroor – Subha Varma

BAV, Kakkanad – Indrani Vinod, Seema C

BVV,Thrikkakkara – Aleyamma George

BMV, Thiruvamkulam – Latha S

BNV,Velloor – Shybee Thomas

BHARATIYA VIDYA BHAVAN, KOCHI
CLASS XII - INFORMATICS PRACTICES (065)
YEAR PLAN (2021 -'22)

MONTH	UNIT	TOPICS
April/May	Unit 1 : Data Handling using Pandas and Data Visualization	Data Handling using Pandas -I Data structures in Pandas – Series
June	Unit 1 : Data Handling using Pandas and Data Visualization	Data Handling using Pandas -I Data structures in Pandas – Data Frames. Operations on rows and columns: Boolean Indexing;
July	Unit 1 : Data Handling using Pandas and Data Visualization	Data Handling using Pandas -I Importing/Exporting Data between CSV files and Data Frames. Data Visualization - Purpose of plotting; drawing and saving various types of plots using Matplotlib Customizing plots
August	Unit 4: Societal Impacts	Mid Term Evaluation I (2nd Aug – 6th Aug) Societal Impacts
September	Unit 2: Database Query using SQL	Database Query using SQL Single Row Functions : Text, Math and Date Functions Aggregate Functions: Querying and manipulating data using Group by, Having, Order by. Operations on Relations - Union, Intersection, Minus, Cartesian Product, JOIN
October	Unit 1 : Data handling using Pandas – II	DataFrames - Descriptive Statistics, DataFrame operations, Handling missing values, Importing/Exporting Data between MySQL Database and Pandas Term End Examination (18th Oct – 29th Oct) <u>Portions for Term End Examination:</u> .
November	Unit 3: Introduction to Computer Networks	Introduction to networks, Network Devices, Topologies, Introduction to internet, website, web browsers.
December		FIRST MODEL EXAM (3rd Dec – 18th Dec)

BVM ELAMAKKARA

Bindu T C, Anju G

BVM THIRUVAMKULAM

Sheela Dileep, Anitha Abi

BVM THRIKKAKARA

Sindhu Gopakumar

BVM EROOR

Girija Pillai

BVM GIRINAGAR

Saritha Vijayachandran

BAV KAKKANAD

Indrani Haridas , Seema C

BNV VELLOOR

Sheba K George, Anish M N

BHARATIYA VIDYA BHAVAN - KOCHI
YEAR PLAN 2021-22 Class XII ECONOMICS

THEORY 80Marks

PROJECT 20 Marks

PART A – MACRO ECONOMICS	
April/May	Unit 2: Money
June	Banking.
June	Unit 1: National Income basic concepts.
June/July	Unit 1: National Income accounting.
August	Unit 4: Government budget and the economy
September	Unit 3: Determination of income and employment
Oct/Nov	Unit 5: Balance of Payments

PART B- INDIAN ECONOMIC DEVELOPMENT	
April/May	Unit 1: Development Experience (1947-90) Indian economy on the eve of Independence Indian economy 1950-90
June	Unit 2 : Economic Reforms since 1991 (LPG)
July	Unit 3: Current challenges (poverty)
July	Unit 3: Current challenges (HCF)
August	Unit 3: Current challenges (Rural development)
September	Unit 3: Current challenges (Employment, Infrastructure)
Oct/Nov	Environment and Sustainable Development
Oct/Nov	Unit 4: Development experience of India – A comparison with neighbours

BHARATIYA VIDYA BHAVAN,KOCHI

STD XII **YEAR PLAN -2021-22**
PHYSICS

MONTH	UNIT	TOPIC
APRIL /MAY	I	ELECTROSTATICS
JUNE	II	CURRENT ELECTRICITY
JULY	III	MAGNETIC EFFECTS OF CURRENT AND MAGNETISM
AUGUST	MID TERM EVALUATION (UNIT I,II&III INCLUDING CYCLOTRON)	
AUGUST	IV	EMI
SEPTEMBER	IV	AC
	V	EM WAVES
	VI	OPTICS
OCTOBER	VI	OPTICS
	VII	DUAL NATURE OF MATTER AND RADIATION
TERM END EXAMINATION {ELECTROSTATICS, CURRENT ELECTRICITY, MAGNETIC EFFECTS OF CURRENT AND MAGNETISM, EMI AND AC, EM WAVES}		
NOVEMBER	IX	ELECTRONIC DEVICES
	VIII	ATOMS AND NUCLEI
DECEMBER	MODEL EXAMINATIONS (ALL PORTIONS)	

BVM ELAMAKKARA

BVM ERROR

BVM GIRINAGAR

BAV KAKKANAD

BVV THRIKKAKARA

BMV THIRUVAMKULAM

BNV VELLOOR

JAYASREE L

GAYATHRI R

ASHA A S

MANJINI P NAIR

LEENA P P

INDIRADEVI K K

LOVELY K N

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA**YEAR PLAN-MATHEMATICS (041) STD XII -2021-22**

MONTH	UNIT	TOPIC
APRIL/MAY	3	MATRICES
	4	DETERMINANTS
JUNE	1	RELATIONS AND FUNCTIONS
	2	INVERSE TRIGONOMETRIC FUNCTIONS
JULY	5	CONTINUITY & DIFFERENTIABILITY
MID TERM EVALUATION I (CONTINUITY & DIFFERENTIABILITY NOT FOR EXAM)		
AUGUST	6	APPLICATION OF DERIVATIVES
SEPTEMBER	7	INTEGRATION
	8	APPLICATION OF INTEGRALS
OCTOBER	9	DIFFERENTIAL EQUATIONS
TERM END EXAMINATION I (APPLICATION OF INTEGRALS & DIFFERENTIAL EQUATIONS NOT FOR EXAM)		
NOVEMBER	10	VECTOR ALGEBRA
	11	THREE-DIMENSIONAL GEOMETRY
	12	LINEAR PROGRAMMING
	13	PROBABILITY
FIRST MODEL EXAMINATION		

