# MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT : ENGLISH

MONTH	CHAPTERS TO BE TAUGHT	ACTIVITY/ PROJECT WORK/ GRAPH/ MAPWORK/SEA etc.
April (24 Days)	<ul> <li>The Last Lesson</li> <li>Lost Spring</li> <li>My Mother at Sixty-six</li> <li>The Third Level</li> <li>Notice writing</li> <li>Job application</li> <li>Comprehension exercises</li> </ul>	Display through presentation— A tribute to my teacher/ mother. Intra class Debate-'Education is the only remedy to poverty.'
May (08 Days)	<ul><li>Keeping Quiet</li><li>Deep Water</li></ul>	Share motivational videos on overcoming fear, power of determination. Hold a discussion on 'Fear is a state of mind.'
June (15 Days)	<ul> <li>The Rattrap</li> <li>The Tiger King</li> <li>Invitation writing</li> <li>Comprehension exercises</li> </ul>	News caster's special report on 'Christmas wonder' based on 'The Rattrap'
July (25 Days)	<ul> <li>Indigo</li> <li>Journey to the End of the Earth</li> <li>Poets and Pancakes</li> <li>The Enemy</li> <li>A Roadside Stand</li> <li>A Thing of Beauty</li> <li>Reply to invitation</li> <li>Article Writing</li> </ul>	Infographic 'Antarctica'
August (24 Days)	<ul> <li>Poets and Pancakes</li> <li>A Roadside Stand</li> <li>Comprehension (Case based)</li> </ul>	Spell bee / Vocabulary quiz

#### MID TERM EXAMINATION (TENTATIVELY 3<sup>RD</sup> WEEK OF AUGUST)

Syllabus: Reading Skills: Comprehension

Writing Skills: Notice Writing, Invitations,

Job Application, Letter to Editor, Report Writing, Article Writing

Literature: Flamingo: Prose-The Last Lesson, Lost Spring, Deep Water, The Rattrap, Indigo

Poems- My Mother at Sixty-six, Keeping Quiet, A Thing of Beauty

Vistas: The Third Level, The Tiger King, The Enemy

September (23 Days)	<ul><li>The Interview</li><li>Aunt Jennifer's Tigers</li></ul>	Panel discussion on teenage fantasy and reality- A teenager, a mother, a psychologist and a teacher.
---------------------	--	--

	Going Places	
October (18 Days)	<ul> <li>Memories of Childhood</li> <li>-The Cutting of My Long Hair</li> <li>-We Too are Human Beings</li> </ul>	Mock interview
November (21 Days)	Revision of Writing Skills	
December (19 Days)	-	
January (25 Days)	_	

- COMPLETION OF SYLLABUS FOR GRADE X & XII 09.11.2024
- COMPLETION OF SYLLABUS FOR GRADE VIII, IX & XI 24.12.2024
- FIRST PRE-BOARD (X & XII) TENTATIVELY IN THE LAST WEEK OF NOVEMBER.
- SECOND PRE-BOARD (X & XII) TENTATIVELY IN THE SECOND WEEK OF DECEMBER.
- MOCK TEST FOR GRADE VIII, IX & XI TENTATIVELY IN THE FIRST WEEK OF JANUARY.

### MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT : CHEMISTRY

MONTH	CHAPTERS TO BE TAUGHT	PRACTICAL
April (24 Days)	Unit 1: Solutions	Content Based Experiments
1 ( )	Unit 2: Electrochemistry	r.
	Sint 2. Electrochemistry	
May(08 Days)	Unit 6: Haloalkanes and Haloarenes	Content Based Experiments (Contd.)
	(Contd.)	
June (15 Days)	Unit 6: Haloalkanes and Haloarenes	Volumetric Analysis
	(To be Completed)	
	Unit 7: Alcohols, Phenols and Ethers	
July (25 Days)	Unit 3: Chemical Kinetics	Volumetric Analysis(Contd.) Salt Analysis
	Unit 8: Aldehydes, Ketones and	Sait Analysis
	Carboxylic Acids(Contd.)	
August (24 Days)	Unit 8: Aldehydes, Ketones and	Salt Analysis (Contd.)
	Carboxylic Acids( To be Completed)	
	Revision for Mid Term Examination	
September MII	TERM EXAMINATION (TENTATIVEL	X 3 <sup>RD</sup> WEEK OF AUGUST)  Salt Analysis (Contd.)
(23 Days)	Unit 9: Amines	Sait Analysis (Contd.)
(20 24,5)	Unit 4: The d- and f- block elements	
October (18	Unit 5: Coordination Compounds	Investigatory Project
Days)	Unit 10: Biomolecules( Contd.)	
November	Unit 10: Biomolecules( To be	Revision
(21 Days)	Completed)	
	Revision for First Pre Board	
	Examination	
	LAGITITIATION	
December		Descision.
(19 Days)	Revision for Second Pre Board	Revision
(	Examination	

January	Revision	
(25 Days)		

- COMPLETION OF SYLLABUS FOR GRADE X & XII 09.11.2024
- COMPLETION OF SYLLABUS FOR GRADE VIII, IX& XI 24.12.2024
- FIRST PRE-BOARD (X & XII) TENTATIVELY IN THE LAST WEEK OF NOVEMBER.
- SECOND PRE-BOARD (X & XII) TENTATIVELY IN THE SECOND WEEK OF DECEMBER.
- MOCK TEST FOR GRADE VIII, IX & XI TENTATIVELY IN THE FIRST WEEK OF JANUARY.

# D.A.V.INSTITUTIONS, WEST BENGAL ZONE.

### **SPLIT UP SYLLABUS FOR THE SESSION 2024-2025**

SUBJECT : BIOLOGY CLASS : XII

MONTH	CHAPTERS AND CONTENT	PRACTICAL
APRIL (24 Days)	Chapter-2: Sexual Reproduction in	1. Prepare a temporary mount to
-	Flowering Plants	observe pollen germination.
	Chapter-5: Principles of Inheritance	2. Pollen germination on stigma
	and Variation.	through a permanent slide or
	Chapter-14: Ecosystem	scanning electron micrograph.
		3.Flowers adapted to pollination by
		different agencies (wind, insects,
		birds).
		4. Mendelian inheritance using
		seeds of different colour/sizes of
		any plant.
MAY (8 Days)	Chapter-3: Human Reproduction	5. Prepared pedigree charts of any
		one of the genetic traits such as
		rolling of tongue, blood groups, ear
		lobes, widow's peak and colour
		blindness.
	(SUMMER BREAK): To prepare the in	ivestigatory project as per the
guidelines .	Charten 2: Hyman Damadystian (to	C Identification of stores of somete
JUNE (15 Days)	Chapter-3: Human Reproduction (to be continued)	6. Identification of stages of gamete
	Chapter-4: Reproductive Health	development, i.e., T.S. of testis and T.S. of ovary through permanent
	Chapter-4. Reproductive Health	slides (from grasshopper/mice).
		7.T.S. of blastula through permanent
		slides (Mammalian).
		8. Meiosis in onion bud cell or
		grasshopper testis through
		permanent slides.
JULY (25 Days)	Chapter 15: Biodiversity and	9. Prepare a temporary mount of
•	Conservation	onion root tip to study mitosis.
	Chapter-6: Molecular Basis of	10. Flash cards models showing
	Inheritance	examples of homologous and
	Chapter-7: Evolution	analogous organs.
AUGUST (24 Days)	Chapter-10: Microbes in Human	11. Study the plant population
	Welfare	density by quadrat method.
	Chapter-13: Organisms and	12. Study the plant population
	Populations	frequency by quadrat method.
		WEEK OF AUGUST)
SEPTEMBER (23 Days)	Chapter-11: Biotechnology and its	13. Models specimen showing
	Principles.	symbolic association in root
	Chapter 12: Biotechnology and its	modules of leguminous plants,
	Application	Cuscuta on host, lichens.
		14.Isolate DNA from available plant
		material such as spinach, green pea
OCTORED (19.D.)	Chantan 12, D' + 1, 1	seeds, papaya, etc
OCTOBER (18 Days)	Chapter 12: Biotechnology and its	15.Common disease causing
	Application (To be continued)	organisms like Ascaris, Entamoeba,
	Chapter-8: Human Health and	Plasmodium, any fungus causing
	Diseases	ringworm through permanent slides,

		models or virtual images or specimens. Comment on symptoms of diseases that they cause. 16. Controlled Pollination - Emasculation, Tagging and Bagging
NOVEMBER (21 days)	Revision	
<b>DECEMBER (19 Days)</b>	Revision of All Chapters From	
	Sample Papers.	
JANUARY (25 Days)	Revision For All Chapters.	

- COMPLETION OF SYLLABUS FOR GRADE X & COMPLETION OF SYLLABUS FOR GRADE X & COMPLETION OF SYLLABUS FOR GRADE X
- COMPLETION OF SYLLABUS FOR GRADE VIII, IX & Depth 24.12.2024
- FIRST PRE-BOARD (X & DENTATIVELY IN THE LAST WEEK OF NOVEMBER.
- SECOND PRE-BOARD (X & DECEMBER. TENTATIVELY IN THE SECOND WEEK OF DECEMBER.
- MOCK TEST FOR GRADE VIII, IX & DENTATIVELY IN THE FIRST WEEK OF JANUARY.

### MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT: MATHEMATICS (041)

MONTH	CHAPTERS TO BE TAUGHT	ACTIVITY/ PROJECT WORK/ GRAPH/ MAPWORK/SEA etc.
April (24 Days)	Relations and Functions.  (Excluding composition of function, inverse of a function and binary operation).  Inverse trigonometric functions (excluding properties of inverse trigonometric function)  Matrices (excluding elementary transformation).	<ol> <li>To verify that the relation R in the set L of all lines in a plane, defined by R = {(1, m): 1 \( \pm \) m} is symmetric but neither reflexive nor transitive.</li> <li>To draw the graph of sin<sup>-1</sup>x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x).</li> </ol>
May(08 Days)	Matrices and determinants (excluding properties of determinants).	
June (15 Days)	Continuity and Differentiability. Derivatives (first order) of inverse trigonometric function, implicit function, exponential and logarithmic function and parametric differentiation and second order differentiation.	3. To sketch the graphs of $a^x$ and $\log_a x$ , $a > 0$ , $a \ne 1$ and to examine that they are mirror images of each other.
July (25 Days)	Application of derivatives: derivative as rate measure, increasing and decreasing function, maxima and minima (excluding approximations, tangent & normal). Indefinite integrals. Definite Integrals. (Definite integral as a limit of a sum excluded).	<ul><li>4. To understand the concept of decreasing and increasing functions.</li><li>5. To understand the concepts of local maxima, local minima and point of inflection.</li></ul>

August (24 Days)	Application of Integrals.  Differential equation (Formation of differential equation deleted).	6. To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
MID TE	ERM EXAMINATION (TENTATIVE	LY 3 <sup>RD</sup> WEEK OF AUGUST)
September	Vectors (Scalar triple product	7. To verify that angle in a semi-
(23 Days)	deleted)	circle is a right angle, using vector method.
		8. To verify geometrically that $\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{b}$
October (18 Days)	Three -Dimensional Geometry (up to straight line).(Plane deleted) Probability (As per new syllabus 2024-25)	9. To measure the shortest distance between two skew lines and verify it analytically.
November (21 Days)	L.P.P (Mathematical formulation of L.P.P deleted) FIRST PREBOARD	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.
December (19 Days)	Revision Work SECOND PRE BOARD	
January (25 Days)	Revision Work	

- COMPLETION OF SYLLABUS FOR GRADE X & XII 09.11.2024
- COMPLETION OF SYLLABUS FOR GRADE VIII, IX& XI 24.12.2024
- FIRST PRE-BOARD (X & XII) TENTATIVELY IN THE LAST WEEK OF NOVEMBER.
- SECOND PRE-BOARD (X & XII) TENTATIVELY IN THE SECOND WEEK OF DECEMBER.
- MOCK TEST FOR GRADE VIII, IX & XI TENTATIVELY IN THE FIRST WEEK OF JANUARY.

# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## **SESSION: 2024–2025**

### MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT: APPLIED MATHEMATICS

MONTH	CHAPTERS TO BE TAUGHT	ACTIVITY/ PROJECT WORK/ GRAPH/ MAPWORK/SEA etc.
April (24 Days)	• Unit - 1	
	Numbers, Quantification and	
	Numerical Applications	
	(1.1, 1.2, 1.4, 1.5, 1.6)	
	(111, 112, 111, 110, 110)	
	• Unit − 2	
	Algebra (2.1 to 2.3)	
	Matrices, Types of matrices,	
	Equality of matrices, Transpose of a	
	matrix, symmetric and skew	
	symmetric matrices, Operation on	
	matrices (up to matrix	
	multiplication)	
May(08 Days)	• Unit – 2 (contd)	PROJECT:
	Algebra (2.4 to 2.6)	Each day the newspaper tells us
	Determinant, Inverse of a matrix,	about the maximum temperature,
	Solving system of simultaneous	minimum temperature and
	equations using matrix method and	humidity. Collect the data for a
	Cramer's rule.	period of 30 days and represent it
	• Unit – 3	graphically. Compare it with the
	Calculus ( 3.1 and 3.2 )	data available for the same time
	Derivatives and its applications	period for the previous year. (To
	(Determine the rate of change of	be given to the students)
	various quantities, Understand the	
	gradient of tangent and normal to a	
	curve at a given point, Write the	
	equation of tangents and normal to a	
	curve at a given point)	
June (15 Days)	• Unit − 3	PRACTICAL 1:
	Calculus ( 3.3 to 3.12 ) - (Contd)	Matrix multiplication and inverse
	Marginal Cost and Marginal	of matrix using spreadsheet.
	Revenue using Derivatives,	
	Increasing /Decreasing Functions,	
	Maxima and Minima, Indefinite	
	integrals, Definite integrals and area	
	under the curve, Application of	
	integration. Differential Equations	
	and Modeling, Application of	
	differential equations.	
July (25 Days)	• Unit – 4	PRACTICAL 2:
	Probability Distributions( 4.1 to 4.6)	Plot the graphs of functions on
		excel and study the graph to find

		out the point of maxima and/ or minima.
August (24 Days)	• Unit – 5	
	Inferential Statistics (5.1 to 5.3)	DD.
	D TERM EXAMINATION (TENTATIV)	ELY 3 <sup>RD</sup> WEEK OF AUGUST)
September	• Unit - 6	
(23 Days)		
	Index number and time based data	
	(6.4 to 6.8)	
	• Unit - 7	
	Financial mathematics	
	(7.1, 7.3, 7.4, 7.5, 7.7)	
October (18	• Unit - 8	PRACTICAL 3:
Days)		Collect data from newspapers on
Zujs)	Linear Programming (8.1 to 8.6)	traffic, sports activities and
		market trends and use excel to
		study future trends.
November	• Revision	
(21 Days)	210 / 202022	
<u> </u>		
December	• Revision	
(19 Days)		
January	• Revision	
(25 Days)		
(25 Days)		

- COMPLETION OF SYLLABUS FOR GRADE X & XII 09.11.2024
- COMPLETION OF SYLLABUS FOR GRADE VIII, IX & XI 24.12.2024
- FIRST PRE-BOARD (X & XII) TENTATIVELY IN THE LAST WEEK OF NOVEMBER.
- SECOND PRE-BOARD (X & XII) TENTATIVELY IN THE SECOND WEEK OF DECEMBER.
- MOCK TEST FOR GRADE VIII, IX & XI TENTATIVELY IN THE FIRST WEEK OF JANUARY.

### MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT : ECONOMICS

MONTH	CHAPTERS TO BE TAUGHT	ACTIVITY/ PROJECT WORK/ GRAPH/
		MAPWORK/SEA etc.
April (24 Days)	<ul> <li>Indian Economy on the eve of independence.</li> <li>Basic concepts of Macroeconomics.</li> <li>(Up to circular flow of income)</li> </ul>	Concept Map Pictorial Representation
May(08 Days)	<ul><li>Indian Economy 1950- 1990</li><li>Money and Banking.</li></ul>	Group wise class presentation by students
June (15 Days)	<ul> <li>Indian Economy 1950- 1990         <ul> <li>(to complete)</li> </ul> </li> <li>Money and Banking (to complete)</li> </ul>	Mind Map
July (25 Days)	<ul> <li>Liberalization, Privatization and Globalization: An appraisal.</li> <li>Human Capital Formation (to start).</li> <li>National Income and related aggregates.</li> <li>Measurements of National Income.</li> </ul>	Infographics
August (24 Days)	<ul><li>Human Capital Formation (to complete)</li><li>Rural development</li></ul>	Class presentation by students
	TERM EXAMINATION (TENTATIVEL	
September (23 Days)	<ul> <li>Government budget and the economy.</li> <li>Foreign Exchange</li> <li>Employment</li> <li>Balance of payments.</li> </ul>	Mind Map
October (18 Days)	<ul> <li>Environment and sustainable development.</li> <li>Theory of income and employment.</li> </ul>	Mind map to summarise the chapter. Diagrammatic representations
November (21 Days)	<ul> <li>Comparative development experience of India and its neighbours.</li> <li>Theory of income and employment (to complete)</li> </ul>	Class presentation Quiz
December		
(19 Days)		
January (25 Days)		

- COMPLETION OF SYLLABUS FOR GRADE X & XII 09.11.2024
- COMPLETION OF SYLLABUS FOR GRADE VIII, IX & XI 24.12.2024
- FIRST PRE-BOARD (X & XII) TENTATIVELY IN THE LAST WEEK OF NOVEMBER.
- SECOND PRE-BOARD (X & XII) TENTATIVELY IN THE SECOND WEEK OF DECEMBER.
- MOCK TEST FOR GRADE VIII, IX & XI TENTATIVELY IN THE FIRST WEEK OF JANUARY.

# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## **SESSION: 2024–2025**

### MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT : COMPUTER SCIENCE

MONTH	CHAPTERS TO BE TAUGHT	PRACTICAL			
April (24 Days)	Computational Thinking and	Practical on Revision of Python Topics			
	Programming – 2 -Revision of Python topics covered in Class	covered in Class XI.			
	XI.				
	Functions- Introduction, types of				
	function (built-in functions, functions defined in module, user defined functions)				
May(08 Days)	Functions: creating user defined	Practical on Python using User defined			
	function, arguments and parameters, default	Functions with List, Tuple, Dictionary, Local and Global variables, LEGB Scope			
	parameters, positional parameters, function returning value(s), flow of execution, scope	Local and Global variables, ELGB Scope			
	of a variable (global scope, local scope)				
June (15 Days)	Database Management	Practical on Database Using MYSQL with			
	Database concepts,	Queries.			
	Relational data model				
	Structured Query Language: SQL     Overige based on DDL DML				
	Queries based on DDL, DML Commands and Aggregate Functions.				
July (25 Days)	Database Management	Practical on Database Using MYSQL with			
	Structured Query Language: Join	Queries and Python with MYSQL			
	Operations.	Connectivity.			
	Interface of python with an SQL database				
	Exception Handling: Introduction,	Practical on exception handling			
	handling exceptions using try-except-finally blocks	Tractical on exception handring			
	Data File Handling: Introduction to				
	files, types of files (Text file, Binary file,	Practical on File Operations: Text File,			
	<ul><li>CSV file), relative and absolute paths.</li><li>Text file Operations</li></ul>	Binary File and CSV File			
August (24 Days)	Data File Handling	Practical on File Operations: Text File,			
	Binary file Operations	Binary File and CSV File			
	CSV File Operations				
	MID TERM EXAMINATION (TENTATIVELY 3 <sup>RD</sup> WEEK OF AUGUST)				
September	Data Structure: Stack and its	Practical on Stack Using List in Python			
(23 Days)	Operations using List, Implementation of				
	stack using list. (Infix to Postfix conversion using Stack, Evaluation of Postfix				
	Expression using Stack.)				
October (18	Computer Networks: Evolution of	Practical: Revision of Data File Handling			
Days)	networking, Data communication	and SQL Queries,			

	terminologies, Transmission media, Network topologies and Network types.	FINAL PROJECT WORK
November (21 Days)	Computer Networks: Network devices, Network protocol, Introduction to web services. Revision	
December (19 Days)	Revision Preboard-I	
January (25 Days)	Preboard-II	

## D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## **SESSION: 2024-2025**

### MONTH-WISE BIFURCATED SYLLABUS

CLASS: XII SUBJECT: PHYSICAL EDUCATION (048)

CHAPTERS TO BE TAUGHT	PRACTICAL WORK	
Unit I- Management of Sporting Events	1. Anyone IOA recognised	
Unit II- Children & Women in Sports Unit III- Yoga as Preventive measure for Lifestyle Disease	Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.	
<b>DRK (SUMMER BREAK):</b> - Anyone IOA recognised ment. Also mention its Rules, Terminologies & Skills.	Sport/Game of choice. Labelled	
Unit IV- Physical Education & Sports for CWSN (Children with Special Needs - Divyang)	2. Procedure for Asanas, Benefits &	
Unit V- Sports & Nutrition Unit VI- Test & Measurement in Sports	Contraindication for any two Asanas for each lifestyle disease	
Unit VI- Test & Measurement in Sports (Remaining Part)		
	Unit I- Management of Sporting Events  Unit II- Children & Women in Sports Unit III- Yoga as Preventive measure for Lifestyle Disease  ORK (SUMMER BREAK): - Anyone IOA recognised ment. Also mention its Rules, Terminologies & Skills.  Unit IV- Physical Education & Sports for CWSN (Children with Special Needs - Divyang)  Unit V- Sports & Nutrition Unit VI- Test & Measurement in Sports  Unit VI- Test & Measurement in Sports	

#### PORTION FOR MIDTERM EXAMINATION: (THIRD WEEK OF AUGUST)

- 1. Unit I Management of Sporting Events
- 2. Unit II Children & Women in Sports
- 3. Unit III Yoga as Preventive measure for Lifestyle Disease
- **4.** Unit IV Physical Education & Sports for CWSN (Children with Special Needs Divyang)
- 5. Unit V Sports & Nutrition

September (23 Days)	Unit VII- Physiology & Injuries in Sports	
	Unit VIII- Biomechanics & Sports	
October (18 Days)	Unit IX- Psychology & Sports	Fitness tests administration.
November (21 Days)	Unit X- Training in Sports	(SAI Khelo India Test)
December (19 Days)	Revision (UNIT-1 TO UNIT-10)	

#### NOTE :-

COMPLETION OF SYLLABUS FOR GRADE X & XII - 09.11.2024 COMPLETION OF SYLLABUS FOR GRADE VIII, IX & XI - 24.12.2024 FIRST PRE-BOARD (X & XII) - TENTATIVELY IN THE LAST WEEK OF NOVEMBER. SECOND PRE-BOARD (X & XII) - TENTATIVELY IN THE SECOND WEEK OF DECEMBER. MOCK TEST FOR GRADE VIII, IX & XI - TENTATIVELY IN THE FIRST WEEK OF JANUARY.