

BHARATIYA VIDYA BHAVAN'S VIDYASHRAM, K.M. MUNSHI MARG, JAIPUR

SYLLABUS - (2019-2020)

Class: XII-A (Science Stream)

SUBJECT: ENGLISH CORE

Books-Flamingo: English Reader (NCERT)

Vistas: Supplementary Reader(NCERT)

Month	Name of the topic	Learning Outcome
March	<p>Flamingo: 1. The Last Lesson , 2. My Mother at Sixty-six</p> <p>Vistas: 1. The Tiger King</p> <p>Note making, Notice writing, Letter to the Editor, Invitation</p>	<ul style="list-style-type: none"> Analyzing in detail how a key individual, event or idea is introduced in the text. Understand Poetry as a literary form and analyze the various elements of poetry. Application of appropriate reading strategies for interpreting texts & Vocabulary building. Announcements of events/celebrations/instructions through formal notices, invitations and letters written in appropriate format and style.
April:	<p>Flamingo: 1. Lost Spring</p> <p>Vistas : 1.The Enemy</p> <p>Report writing , Advertisement</p>	<ul style="list-style-type: none"> Integrating information as well as words to develop a coherent understanding of the topic. Analyzing and extrapolating the idea e.g. empathy, war ideology, humanity etc. Objective evaluation or analysis of an event; announcement of products, services, events etc.
May:	<p>Flamingo: 1. An Elementary School Classroom in a Slum</p> <p>Poster, Speech</p>	<ul style="list-style-type: none"> Appreciating, Reasoning and Justifying; Extracting relevant information ; drawing comparisons with the help of contrasting images. Relating words with actual, meaningful situations to construct grammatically correct sentences. Creating awareness through 'Posters'.
July:	<p>Flamingo: 1. Deep Water , 2. The Rattrap</p> <p>Invitation, Advertisement, Article, Speech</p>	<ul style="list-style-type: none"> Identifying the main ideas in the text and making inferences based on information. Expressing opinions/ideas in an organized manner using appropriate language and format. Ability to write coherently and respond imaginatively to questions.
August:	<p>Flamingo: 1. Indigo 2. Keeping Quiet 3. A Thing of Beauty</p> <p>Vistas: 1.Should Wizard hit Mommy 2. On the face of It 3. The Third Level</p>	<ul style="list-style-type: none"> Learning to document the main events, ideas and using verbs to develop a bigger picture. Silent Reading and reading between the lines. Identifying the moral issues raised.

	Letter of Complaint, Letter of Enquiry, Letter for Placing Orders, Job Application, Debate	
September:	Flamingo: Poets and Pancakes Revision	<ul style="list-style-type: none"> Perceive the overall meaning and organization of the text ; develop the skills of reasoning.
October:	Flamingo: 1. Going Places 2. The Interview 3. Aunt Jennifer's Tigers 4. Road Side Stand Vistas: 1. Evans Tries an O-level , 2. Memories of Childhood	<ul style="list-style-type: none"> Ascertaining the kind of issues raised through someone's life and struggle. Identifying women as marginalized community, the discrimination they face and their struggle against it. Figuring out the complexities of human relationships; impact on impressionable minds.
November:	Vistas: Journey to the end of the Earth Revision	<ul style="list-style-type: none"> Engaging in independent reflection and enquiry.

Syllabus for P1	:	1. The Last Lesson , 2. Lost Spring 3. My Mother at Sixty-six 4. The Enemy 5. The Tiger King Note making, Notice writing, Report writing, Letter to the Editor
Syllabus for P2	:	1. Deep Water , 2. An Elementary School Classroom in a Slum 3. The Rattrap Invitation, Advertisement, Poster, Article, Speech , Note Making
Syllabus for P3	:	1. Indigo , 2. Keeping Quiet , 3. A Thing of Beauty 5. Should Wizard hit Mommy , 6. On the face of It , 7. The Third Level 8. Poets and Pancakes Letter of Complaint, Letter of Enquiry, Letter for Placing Orders, Job Application, Debate + Syllabus of P1 and P2
Syllabus for I Pre-board	:	1. Going Places , 2. Aunt Jennifer's Tiger , 3. Evans Tries an O-level 4. Memories of Childhood , 5. The Interview 6. Journey to the End of the Earth, 7. Road Side Stand + Syllabus of P1, P2 and P3
Syllabus for II Pre-board	:	Entire Syllabus

SUBJECT : PHYSICS

MONTH	NAME OF THE TOPIC	ACTIVITY	LEARNING OUTCOMES
MARCH	Ch-1: Electric Charges and Fields Ch-2: Electrostatic Potential and Capacitance	1.To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.	able to .State the mathematical definitions of Coulomb force, electric field, electrostatic potential and voltage. able to Select relevant properties from electric charge and fields to predict the outcome of a given electrostatic interaction.
APRIL	Ch-3: Current Electricity Ch-4: Moving Charge and Magnetism	2.To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.	able to Distinguish between static electricity and the current electricity. able to analyse complex DC circuits qualitatively and quantitatively including applications of Ohm's law and Kirchhoff's laws. Able to describe magnetic field and field lines
MAY	Ch-5: Magnetism and matter	3.To verify the laws of combination (series) of resistances using a metre bridge. 4. To verify the laws of combination (parallel) of resistances using a metre bridge.	able to describe how magnetism is produced .
JULY	Ch-6: Electromagnetic Induction Ch-7: Alternating Current	5. To compare the EMF of two given primary cells using potentiometer. 6. To determine the internal resistance of given primary cell using potentiometer. 7.To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.	able to Solve challenging problems using interconnected resistance, capacitance, inductance

AUGUST	Ch-8: Electromagnetic Waves Ch-9: Ray optics and Optical Instruments	8. To find the value of v for different values of u in case of a concave mirror and to find the focal length 9. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 10. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 11. To determine refractive index of a glass slab using a travelling microscope.	able to differentiate among different 'electromagnetic wave' able to provide examples of electromagnetic waves in use able to explain properties of light
SEPTEMBER	Ch-10: Wave Optics Ch-11 Dual Nature of Radiation and Matter CH-12: Atoms	12. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 13. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.	able to describe, light as a wave and a particle. able to analyse atomic structure.
OCTOBER	Ch-13: Nuclei Ch-14: Electronic Devices		able to understand basic working of common semiconductor devices used in electronics. able to explain the operation of a PN diode and its use in AC rectification
NOVEMBER	Revision		

Syllabus for P1	:	Ch-1: Electric Charges and Fields , Ch-2: Electrostatic Potential and Capacitance Ch-3: Current Electricity
Syllabus for P2	:	Syllabus of P1 and Ch-4: Moving Charge and Magnetism Ch-5: Magnetism and matter Ch-6: Electromagnetic Induction
Syllabus for half yearly	:	Syllabus of P1 and P2 Ch-7: Alternating Current Ch-8: Electromagnetic Waves Ch-9: Ray optics and Optical Instruments
Syllabus for Pre Board	:	Complete syllabus

SUBJECT: CHEMISTRY

MONTH	TOPICS	ACTIVITY	LEARNING OUTCOMES
March	Unit 1- Solutions Unit 2 Electrochemistry		Knowledge of: Unit 1-Variation of colligative properties in solutions Unit 2-Basic difference between electrolysis and electrochemical process.
April	Unit 2- Electrochemistry (continued) Unit 3- Chemical kinetics Unit 4- Surface chemistry	Preparation of lyophilic colloidal solutions of starch and egg albumin.	Knowledge and idea about: Unit 3-Factors affecting rate of reaction and concept of Catalyst Unit 4-Thermodynamic concept of adsorption and characteristic features of a colloidal system.
May	Unit 4 -Surface chemistry(continued)	Detection of carbohydrates ,proteins and fats in the given food sample.	
July	Unit 5-General principles and processes of Isolation of elements Unit 6-The p-block elements Unit 7-The d- and f-block elements	Redox titration (KMnO ₄ Vs Oxalic acid)	Unit 5-Knowledge of various metallurgical operations and thermodynamic aspect of metallurgy. Unit 6-Knowledge of periodic trends and characteristic features of group 16,17 and 18 elements. Unit 7-Knowledge and understanding of periodic trends and general properties of d- and f- block elements.
August	Unit 8- Co-ordination compounds Unit 9- Haloalkanes and haloarenes Unit 10- Alcohols, phenols and ethers	Redox titration (KMnO ₄ Vs FAS), Ascending paper chromatography	Unit 8-Knowledge of IUPAC nomenclature, isomerism, nature of bonding, stability and applications of co-ordination compounds. Unit 9--Knowledge of IUPAC nomenclature, stereochemistry, physical and chemical properties, reaction mechanisms, applications and environmental effects of Haloalkanes and haloarenes
September	Unit 10- Alcohols, phenols and ethers (continued) Overall revision for Half-yearly examinations		Unit 10--Knowledge of IUPAC nomenclature ,physical and chemical properties, reaction mechanisms, applications and environmental effects of Alcohols, phenols and ethers

October	Unit 11- Aldehydes, ketones and carboxylic acids Unit 12- Amines Unit 13- Biomolecules	Functional group detection	Unit 11--Knowledge of IUPAC nomenclature, physical and chemical properties, reaction mechanisms, applications and environmental effects of carbonyl compounds Unit 12-Knowledge and understanding of basic nature of amines and their application as reaction intermediates. Unit 13-Knowledge of various classes of Biomolecules and their specific roles in biosystem.
November	Unit 14- Polymers Unit 15- Chemistry in everyday life	Qualitative(salt)analysis -revision	Unit 14-Ability to appreciate the importance of polymers in daily life. Unit 15-Knowledge of various drugs and chemicals used in our day to day life.

SYLLABUS FOR P1--→

Unit-1 , 2

SYLLABUS FOR P2--→

Unit- 3 , 4 , & 5

SYLLABUS FOR HALF-YEARLY EXAMINATION- →

Unit—1, 2, 3, 4, 5, 6, 7, 8, 9 and 10

SYLLABUS FOR PRE-BOARD -1-→

Unit -1 to unit-15 (Complete syllabus)

SYLLABUS FOR PRE-BOARD-2-→

Unit-1 to unit-15 (Complete syllabus)

**Class – XII
MATHEMATICS**

Month	Working / Teaching days	Chapter Nos. & Name of the Topic	Learning Outcome
March	14	Chapter- 3,4 : Matrices and Determinants Chapter- 2 : Inverse Trigonometry	Students will be able to find the inverse of a matrix and will also learn applications using properties of matrices and Determinants
April	23	Chapter- 5 : Continuity and Differentiability Chapter- 6 : Applications of Derivatives	Calculus (Ch-5,6,7,8,9) Students will be able to find the differentiation and integrations using various identities and will also learn the application.
May	08	Chapter- 7 : Integrations	
July	26	Chapter- 7 Integrations continued Chapter- 8 Applications of Integrations Chapter- 9 Differential Equations	
August	24	Chapter- 9 : Differential Equations continued Chapter- 12 : Linear Programming Problems	Students will be able to find the optimal feasible solution through graphical method
September	21	Chapter- 13 : Probability	Students will be able to use Bayes' Theorem Random variable and probability distribution to find mean and variance
October	17	Chapter - 10 : Vectors Chapter – 11 : 3 D Geometry	Students will be able to find the Cartesian and vector equations of a line and a plane in 3-D
November	23	Chapter – 1 : Relations & Functions (Pre-Board start)	Students will be able to prove the equivalence relation and objective function and inverse of a function
December	19	: Pre-Board-I (Continued) & Revision	
January	22	: Pre Board - II	

Syllabus for P1	:	Chapter Nos. 2 , 3 , 4
Syllabus for P2	:	Chapter Nos. 5 , 6 , 7
Syllabus for Half yearly Examination	:	Chapter Nos. 2 to 7 , 8 , 11
Syllabus for Pre-Board	:	Chapter Nos. 1 to 12 (Complete Syllabus)
Syllabus for Pre-Board II	:	Chapter Nos. 1 to 12 (Complete Syllabus)

PSYCHOLOGY

Month	Name of the Topic	Activity	Learning Outcome
April	Ch – 3. Meeting Life Challenges Ch – 1. Intelligence	Activity on Stress	<ul style="list-style-type: none"> Students would grasp the concept of stress and how to deal with it
May	Ch – 1. Intelligence (Continued) Tests (SPM , HSPQ and DBDA)	Activity on Individual Differences	<ul style="list-style-type: none"> The various factors influencing intelligence and its range will be clear
July	Ch – 2. Self & Personality Ch – 4. Psychological Disorders	Activity on Self Perception	<ul style="list-style-type: none"> Various theories of personality as well as its assessment will be learnt
August	Ch – 4. Psychological Disorders (contd....) Ch – 5. Therapeutic Approaches	Activity on Psychological Disorders	<ul style="list-style-type: none"> Various psychological disorders and their symptoms would be clear to students Psychological therapies and the principles that govern them will be known
September	Ch – 9. Being a Psychologist	Activity on Mock Interview	<ul style="list-style-type: none"> Various traits needed to be a successful psychologist will be studied
October	Ch – 7. Social Influence Ch – 8. Psychology and Life	Activity on Social Influence	<ul style="list-style-type: none"> Student will learn about the influence of others on their behaviour.
November	Ch – 8. Psychology and Life (contd...) Ch – 6. Attitude and Social Cognition	Discussion on Prejudice	<ul style="list-style-type: none"> Various Social Issue of every day life will be related to the subject for better understanding Students will learn how their attitudes are formed and changed

Syllabus for P1	:	Chapter No. 1 & 3
Syllabus for P2	:	Chapter Nos. 1 , 2 , 3 , 4
Syllabus for Half yearly Examination	:	Chapter Nos. 1 , 2 , 3 , 4 , 5 , 9
Pre-Board – I	:	Complete Syllabus
Pre-Board – II	:	Compete Syllabus

Class : XII**Subject : Informatics Practices**

Month	Name of the Topics	Activity	Learning Outcome
April	Ch. 7 : Web Applications Ch.-8 : MySQL Revision Tour	Web pages based on HTML tags. Use of various DDL and DML commands with predefined SQL functions. Database for project to be created.	Prepare web pages using HTML. Create, modify, delete databases and accessing selective data from database.
May	Ch. 6 : Data Connectivity	Java Applications to connect and manipulate MySQL database. Data connectivity applications to be developed for the project.	Develop Java applications with connectivity to MySQL database.
July	Ch. 9 : More on Databases & SQL Ch. 10 : Advanced DBMS Concepts Ch. 11 : IT Applications	Creation of database having multiple tables. Queries based on multiple tables. Development of more GUIs for project. Group discussion on various IT applications.	Define and process database transactions and accessing selective data from database using more than one table. Classification of websites as per their usage.
August	Ch. 3 : GUI Programming – A Review Ch. 4 :Basics of OOP Ch. 5: Advanced Programming Concepts	Applications based on various Swing Controls. Sample transaction evaluation.	Apply Object Oriented approach in developing Java applications.
September	Ch – 3 – 8,11	Revision	Recall topics done and apply knowledge and understanding to solve given questions.
October	Ch. 01 : Computer Networking	Designing networks using various topologies.	Familiarity with network types and devices with their applications.
November	Ch. 2 : Open Source Concepts	Preparation of list of OSS & proprietary software used in lab.	Classification of software. Purpose of developing OSS.
December	Pre-Board Exam I	-----	
January	Pre-Board Exam II	-----	

Syllabus for P1	Chapters – 7,8
Syllabus for P2	Chapters – 6,7,8,9,10
Syllabus for Half Yearly	Chapters – 3,4,5,6,7,8,9,10,11
Syllabus for Pre-board I & II	Chapters – 1 to 11

Physical Education
Class - XII

Month`	Name of the Topics	Activities	Learning Outcome
April	Unit – I Planning Sports Unit-II Sports & Nutrition	<ul style="list-style-type: none"> Physical Fitness (AAHPER) 60 m 600 m yard Run / Walk 	<ul style="list-style-type: none"> Meaning and all types of tournament, Draw Fixture specific sports programme
May	Unit – III Yoga & Lifestyle	<ul style="list-style-type: none"> Physical Fitness (AAHPER) Standing broad jump Shuttle run 	<ul style="list-style-type: none"> Asanas as preventive measure obesity all types of Yogasanas
July	Unit IV. Physical Education & Sports for CWSN (Children with Special Needs- Divyang) Unit – V Children & Sports	<ul style="list-style-type: none"> Physical Fitness (AAHPER) 60 m 600 m yard Run / Walk Standing broad jump Shuttle run 	<ul style="list-style-type: none"> Concept of Disabilities and Disorder Advantage of Physical Education Activity for children with special needs.
August	Unit – VI Women & Sports Unit-VII Test & Measurement in Sports	Skill of Athletics, Basketball	<ul style="list-style-type: none"> Postural Deformities
September	Unit VIII Physiology & Sports Unit IX Sports Medicine	Skill of Football, Handball	<ul style="list-style-type: none"> Effect on Body system
October	Unit X Kinesiology, Biomechanics & Sports Unit XI Psychology & Sports	<ul style="list-style-type: none"> Skill of Hockey, Kho Kho, 	<ul style="list-style-type: none"> Types of movement Newton’s Law of motion
November	Unit XII Training in Sports	<ul style="list-style-type: none"> Skill of Volleyball 	<ul style="list-style-type: none"> Types of methods of improving strength

Syllabus for P1 : Unit – 1 & 2
 Syllabus for P2 : Unit I – 1 , 2 , 3 , 4 , 5
 Syllabus for Half yearly : Unit - 1 to 7
 Syllabus for Pre-Board I & II : Unit – 1 to 12

Economics

Section A: Introductory Macro Economics

Section B: Indian Economic Development

Month	Name of the Topic	Activity	Learning Outcome
March	Section A – Introductory Macro Economic Theory Unit-1. National Income National Income and aggregates		Circular flow of income,basic concepts of macro economics,
April	Unit-1. National Income Methods of Calculating National Income Unit-2 Money & Banking Money-meaning and supply of money Money creation by Commercial Banks		Measurement of national income by three methods. Meaning of money and money supply.process of credit creation by commercial banks
May	Unit-2 Money & Banking (to be Continued) The Central Bank and it Functions	Data Collection for Project work	Various functions of the central bank.
July	Unit-3. Determination of Income and Employment Unit-4 Government Budget and the Economy Unit 5. Balance of Payments B.O.P Account and B.O.P Deficit		AD and components,income determination and multiplier Meaning,Objectives,components of government budget.
August	Unit-5. Balance of Payment (to be Continued) Foreign Exchange rate-Meaning' Types & determination of Foreign Exchange rate Section B: Indian Economic Development Unit-6. Development Experience (19947-90) and Economic Reforms Since 1991 Ch-1. Indian Economy on the eve of Independence Ch-2. Five years Plan in India-Goals achievements Ch-3. Features Problems and Policies of Agriculture Ch-4. Strategy of industrial Growth (1947-90)		B.O.P,B.O.T,components of B.O.P account.B.O.P deficit Types of exchange rate, determination of exchange rate---- Indian economy under British rule- Agriculture and industrial sector, foreign trade, occupational structure, demographic conditions, infrastructure. Objectives of indian planning Features problems and policies of Indian Agriculture

September	Unit-6. Development Experience (1947-90) and Economic reforms since 1991 Ch-4. Strategy of Industrial Growth (1947-90) IPR-1956 (to be Continued) Ch-5. India's Foreign Trade		Industrial policy, types and programmes., importance of foreign trade,
October	Unit-6 Development Experience (1947-90) & Economic Reforms since 1991 Economic reforms since 1991 or New Economic Policy Unit-7 Current Challenges Facing Indian Economy Ch-7. Poverty Ch-8. Human Capital Formation in India Ch-9. Rural Development	Project Work	Need for economic reforms, types and programmes of poverty, role of human capital formation in economic development, institutional sources of rural credit
November	Unit-7 Current Challenges Facing Indian Economy Ch-10. Employment & Unemployment Ch-11. Infrastructure Ch-12. Environment & Sustainable Development Unit-8 Ch-13. Development Experience of India, Pakistan & China – A comparative Study		Types and problems of employment, importance of infrastructure, strategies of sustainable development Development strategies of India, China and Pakistan

Syllabus for P1 : Section-A : Unit-1 : Ch-1 to 4
Syllabus for P2 : Section-A Unit-2 : Ch-5 & 6 Unit 3: Ch- 7 to 9
Syllabus for Half yearly : Section-A Unit-1 to 5 Section-B. Unit-6: Ch- 1 to 3
Pre-Board – I & II : Complete Syllabus

Class – XII**Fine Arts-Painting (Theory)**

Month	Name of the Topic	Activity	Learning Outcome
March	The Rajasthani and Pahari Schools of Miniature Painting (16 th Century A.D. to 19 th Century A.D.) (1) The Origin and Development of Miniature Painting in India	<ul style="list-style-type: none">• Identify the Colours and Make the Difference Charts	<ul style="list-style-type: none">• To familiarize students with various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life.
April	(2) The Rajasthani Schools of Miniature Painting (3) The Pahari Schools of Miniature Painting	<ul style="list-style-type: none">• Identify the Picture of different Art Style	
July	The Mughal and Deccan Schools of Miniature Painting (16 th Century A.D. to 19 th Century A.D.) (4) The Mughal School of Miniature Painting	<ul style="list-style-type: none">• Develop PPT	
August	(5) The Deccan School of Miniature Painting	<ul style="list-style-type: none">• To Document difference between Painting & Sculpture	
September	The Indian National Flag and the Bengal School of Painting (6) Introduction to the Bengal School of Painting (7) Study of the Painting of Bengal School	<ul style="list-style-type: none">• Develop Charts	<ul style="list-style-type: none">• The students will also have an opportunity to observe and study the evolution of its mutations and synthesis with other style and the rise of an altogether new style. The students will be made aware of art as a human experience.
October	(8) Contribution of Indian artists in the Struggle for National Freedom Movement (9) Evolution of the Indian National Flag	<ul style="list-style-type: none">• Identify the Picture of Different Art Styles	
November	(10) The Modern Trends in Indian Art (11) Paintings of the Contemporary (Modern) Indian Artists (12) Graphic prints of the Contemporary (Modern) Indian Artists (13) Sculptures of the Contemporary (Modern) Indian Artists	<ul style="list-style-type: none">• Develop PPT Identify the Picture of different Art Style	