

Syllabus for 2015-2016

Class- XII

English

April	Prose	: The Last Lesson
	Poerty	: My mother at Sixty six
	Supplemetary	: The Tiger King
May	Writing	: Advertisement Notes making
	Prose	: Last Spring
	Poerty	: An Elementary school classroom in a slum
	Writing	: Poster, Invitations (Circular)
June --		
July FA-2	Prose	: Deep Water
	Poerty	: Keeping Quiet
	Supplemetary	: The Enemy
	Writing	: Notice, Writing replies
August	Prose	: The Rattrap
	Poerty	: A thing of Beauty
	Supplemetary	: Should Wizard Hit Mommy?
	Writing	: Factual description
September	Prose	: Indigo
	Poerty	: Aunt Jennifer's Tigers
	Supplemetary	: On the face of it
	Writing	: Letters, Application
October	Prose	: Going places
	Supplemetary	: Evans tries on O-Level Memories of childhood
	Writing	: Article, Speech, Reprat
		Novel for self reading

Maths

April to May	Ch -3	: Relations and Functions
	Ch -2	: Inverse Trigonometric Functions
	Ch -3	: Matrics
	Ch -4	: Determinants
July	Ch- 5	: Continuity and Differentiability
	Ch -6	: Application of Derivatives
	Ch- 7	: Integrals
August	Ch -8	: Application of Integrals
	Ch -9	: Differential Equations
	Ch - 10	: Vector Algebra

September Revision with sample papers

SA - I

October	Ch - 11	: Three Dimensional Geometry
	Ch - 15	: Linear Proramming
	Ch - 13	: Probability

Physics

April	: Electrostatics, Current Electricity
May	: Magnetic Effect of Current & Magnetism
July	: Electromagnetic Induction & Alternating Current
August	: Electromagnetic Waves and Optics
September	: Dual Nature of Matter & Aloms & nucler
October	: Electronic Devies & Communication system.

Practical

1. To determine angle of maximum deviation for a given prism by plotting a graph between angle of Incidence and angle of deviation.
2. To determine resistance per cm of a given wire by plotting a Graph of potential difference, versus current.
3. To find resistance of a given wire using metre bridge and hence determine the resistivity.
4. To verify the law of combination (series/ parallel) of resistance using a metre bridge.
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.
8. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.
9. To study the characteristic of a common- emitter npn or pnp transistor and to find out the values of current and voltage gains.
10. To draw the characteristic curve of a Zener diode and to determine its reverse break-down voltage.
11. To find the focal length of convex mirror, using a convex lens.
12. To find the focal length of a concave lens, using convex lens.

Activities :-

1. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

2. To assemble the components of a given electrical circuit.
3. To study the variation in potential drop with length of a wire for a steady current.
4. To observe polarization of light using two polaroids.
5. To assemble a household circuit comprising three bulbs, three (on/off).
6. To study effect of Intensity of light on an L.D.R.

Project

Individual project based on choice of students.

Chemistry

April	Ch -1	: The solid state
	Ch -2	: Solutions
May	Ch -3	: Electrochemistry
	Ch - 4	: Chemical Kinetic
June -		
July	Ch -5	: Surface Chemistry
	Ch - 6	: General Principles and Process of Isolation of Element
	Ch - 7	: The P-Block Elements
August	Ch -1	: The d and f block element
	Ch - 9	: Coordination Compound
	Ch - 1	: Haloalkanes and Alcohols
September	Ch -11	: Alcohols, Phenols and Ethers
	Ch - 12	: Aldehydes, Ketones and Carboxylic Acids

- October** Ch -14 : Biomolecules
Ch - 15 : Polymers
Ch - 16 : Chemistry in Everyday life.

Chemistry Practical

- Exp - 1 Determination of concentration / Molarity of KMnO_4 Soln by titrating it against a standard soln of.
- (i) Oxalic Acid (ii) Ferrous ammonium sulphate
- Exp. 2 Separation of Pigments from extracts of leaves and flowers by paper chromatography and determination of RF values.
- Ex. 3 Preparation of one lyophilic and one lyophobic solution
Lyophilic - Starch
Lyophobic - Ferric hydroxide
Qualitative analysis - Determination one cation and one anion in a given soln,
- Ex. 4 Test for the functional groups present in organic compound. (Unsaturation, Alcoholic, Phenolic, Aldehydic, Ketone, Carboxylic and Amino (Primary Group))
- Ex 5 Characteristics tests of carbohydrates, fats and proteins in pure same and their detection in given food stuff.

Biology

- April** Reproduction in organism.
Sexual reproduction of flowering plants
Human Reproduction
Reproductive health

May	Principle of inheritance and variation Molecular basis of Inheritance
July	Evolution Human health and disease. Strategies for enhancement in food production
August	Microbes in human welfare. Biotechnology : Principles and Processes Biotechnology and its applications
September	Organism and populations Ecosystem Biodiversity and conservation
October	Environmental Issues

Practical

- A. Items of Identification/ familiarity with the appropriate for assessment in practicals (All experiments)
Beaker, flash, periodishes soil from different sites - sandy, clayey, loamy, small potted plants, aluminium foil, paint brush, test tubes, starch solution, iodine, ice cubes, Bunsen burner/ water bath, large colourfull flowers, Maize inflorescence model of development stages high/ lighting morula and biatula of frog, beads of different shapes (cubes, round) / size, smooth and rough, tags of different shapes, bags, Ascals, Cacti Oputia, mammalaria)
- B. List of Practicals
1. Study of soil obtained from at least two different sites for their texture and water

holding capacity.

2. Study of presence of suspended particulate matter in air at two widely different sites.
- 3 Study of the effect of different temperatures on the activity of soil very anylase
4. Study of flowers adeapted to poilination by different agencies (wind, insects)
5. Identification of T.S. of morula or biastula of frog
6. Study of Mendelian inheritance pattern using beads of different colour/ sizes.
7. Preparation of pedigree charts of genetic traits such as rolling of tongue, colour blineness.
8. Study of amasculation, tagging and bagging by trying out an exercise on controlled pollination.
9. Identify common disease causing organism like Ascaris and learn some common symptoms of the disease that they causes.
10. Comment upon (the morphological adeptations of plants found in xerophytic conditions.

Next The above practicals may be carried out in an experiential manner rather than recording observations prescribed books.

1. Biology , Class - XII, Published by NCERT.
2. The list of other related books and mennuals out by NCERT(consider multimedia also)

Physical Education

April	Sports environment and society Adventure sports and leadership training
May	Sports and Nutrition
July	Planning in Sports Postures
August	Children and Sports Test and Measurement in sports
September	Psychology and Sports Biomechanics and sports
October	Physiological Aspects of physical education Training in Sports.

Practical

01.	Physical Fitness - AAHPER marks	5
02.	Athletics - Middle and Long Distance Runs and Throws 05 marks	
03.	Health and Fitness Activities : Asanas/ Swiss Ball/ Polymetric / Aerobics (Any one)	05
04.	Skill of any one Term Game of choice from the given list	05
05.	Viva	05
06.	Record File	05

The events being opted must be other than from those administered under physical fitness test.

1. Write benefits of Asanas, Swill Ball and Plyometric
2. Measure Resting Heart Rate and Respiratory Rate of ten members from family or neighbourhood for three weeks and show graphical representatin of the data.

3. Draw a neat diagram of the Field / Court of any one Game of Choice. Write its history, Rules and Regulations, Terminologies and Important Tournaments.
Atheletics, Basketball, Football, Handball, Hockey, Kho Kho and Volleyball.

Computer

April - May

Ch -1 Review C++ covered in Class - XI

Ch- 2 Object oriented programming

Ch - 3 Function Overloading

Ch - 13 Boolean Algebra

July

Ch -4 Classes and Object

Ch - 5 Constructor and Destructor

Ch - 6 Inheritance (Extending Classes)

August

Ch- 7 Data File Handling

Ch - 8 Pointers

(Project Work)

September

Ch - 9 Arrays

Ch - 10 Stack & Queues

October

Ch - 11 Database Concepts

Ch - 12 SQL

Ch - 14 Computer Networks

Hindi

अप्रैल - मई

आरोह गद्य खण्ड

पाठ -1 से 3

काव्यखंड

जुलाई-अगस्त

पाठ - 1 से 4

वितान -

पाठ 1 एवं समीक्षा

अभिव्यक्ति एवं माध्यम

कहानी लेखन, रिपोर्ट, गद्यांश, पद्यांश

आरोह गद्य खण्ड

पाठ -4 से 7

काव्यखंड

पाठ - 4 से 7

वितान -

पाठ 2 एवं समीक्षा व स्पष्टीकरण

अभिव्यक्ति एवं माध्यम

फीचर, रिपोर्ट, संवाद लेखन, कार्यालयी पत्र

September + October

SA -1 = FA-1+ FA-2

आरोह गद्य खण्ड

पाठ -8 से 10

काव्यखंड

पाठ - 8 से 10

वितान -

पाठ 3 एवं समीक्षा व स्पष्टीकरण

अभिव्यक्ति एवं माध्यम

बायोग्राफी, रिपोर्ट, मीडिया, द्वारा पत्रकारिता,

निबंध, औपचारिक एवं अनौपचारिक पत्र

मौखिक परीक्षा