

**scientia**

TM  
INTERNATIONAL  
SCHOOL  
*Where young minds are nurtured*



# Syllabus and Yearly Planner

## Session 2024-25

### **Class :- 12th**

Opp. Radio Relay Station, Bantalab, Jammu

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# Math

MONTH	TOPIC
May	Matrices , Determinants
JUNE	Relations and Functions , Inverse Trigonometric Functions
JULY	Continuity and Differentiability
AUGUST	Application of Derivatives
SEPTEMBER	Integration
OCTOBER	Application of integration , Differential Equations
November	Vector Algebra
DECEMBER	Three Dimensional Geometry , Linear Programming
JANUARY	Probability
FEBRUARY	Revision

# Chemistry

Month	Topic
April	Sets
May	Solutions And Electrochemistry
June	Chemical Kinetics
July	Coordination Chemistry
August	Alkyl Halides And Aryl Halides.
September	Revision And Half Yearly.
October	Alcohols And Phenols, Aldehyde And Ketones.
November	Amines And Biomolecules
December	Revision
January	Preboard
February	Sample Paper Practice Practicals

# Physical Education

<b>Month</b>	<b>Topic</b>
<b>April</b>	Physical Fitness
<b>May</b>	Training Methods
<b>June</b>	Sociological Aspect Of Physical Education
<b>July</b>	Sociological Aspect Of Physical Education
<b>August</b>	Moral Education
<b>September</b>	Sports And Environment
<b>October</b>	Yoga
<b>November</b>	Concept Of Major Games
<b>December</b>	Sports Of Medicine, First-Aid And Rehabilitation
<b>January</b>	Sports Of Medicine, First-Aid And Rehabilitation

# ACCOUNTANCY

<b>Month</b>	<b>Topic</b>
<b>May</b>	<b>Fundamental &amp; Admission of a Partner</b>
<b>June</b>	<b>Retirement &amp; Death of a Partner</b>
<b>July</b>	<b>Retirement &amp; Death of a Partner, Dissolution of Partnership firm</b>
<b>August</b>	<b>Accounting for Share Capital &amp; Accounting for Debentures</b>
<b>September</b>	<b>Half Yearly</b>
<b>October</b>	<b>Financial Statement Analysis</b>
<b>November</b>	<b>Cash flow Statement</b>
<b>December</b>	<b>Accounting for Not- For- Profit Organizations</b>
<b>January</b>	<b>Revision &amp; Pre-board</b>
<b>February</b>	<b>Sample paper practice</b>

# ECONOMICS

Month	Topic
May	<ul style="list-style-type: none"> <li>• What is microeconomics?</li> <li>• Central problems of an economy, production possibility curve and opportunity cost.</li> <li>• Demand: market demand, determinants of demand, demand schedule, demand curve, movement along and shifts in demand curve</li> <li>• Money and Banking.</li> </ul>
June	<ul style="list-style-type: none"> <li>• Consumer's Equilibrium: Meaning and attainment of equilibrium through Utility Approach. One and two commodity cases.</li> <li>• price elasticity of demand, measurement of price elasticity of demand – percentage, total expenditure and geometric methods.</li> </ul>
July	<ul style="list-style-type: none"> <li>• Forms of market – perfect competition, monopoly, monopolistic competition – their meaning and features, oligopoly, meaning, features.</li> <li>• Price determination under perfect competition – equilibrium price, effects of shifts in demand and supply</li> </ul>
August	<ul style="list-style-type: none"> <li>• Production function: returns to factor and returns to scale. • Supply: market supply, determination of supply,</li> <li>• supply schedule, supply curve movement along and shifts in supply curve, price elasticity of supply, measurement of price elasticity of supply – percentage and geometric methods.</li> <li>• Cost and Revenue : Concepts of Cost, Short – run cost curves (fixed and variable costs, total, average and marginal costs), Concepts of Revenue – total, average and marginal revenue and their relationship. Producer's equilibrium – with the help of MC and MR.</li> </ul>
September	<ul style="list-style-type: none"> <li>• National Income and Related Aggregates – Basic Concepts and Measurement.</li> </ul>
October	<ul style="list-style-type: none"> <li>• National Income and Related Aggregates – Basic Concepts and Measurement.</li> </ul>
November	<ul style="list-style-type: none"> <li>• Determination of Income and Employment.</li> </ul>
December	<ul style="list-style-type: none"> <li>• Government Budget and the Economy.</li> <li>• Balance of Payments</li> </ul>
January	REVISION & PROJECT WORK
February	SAMPLE PAPER

# ENGLISH

## APRIL:-

### TEXT-BOOK

- 1.The Last Lesson
- 2.Lost Spring
- 3.My Mother at Sixty- Six(Poem)

### WRITING SKILL:

Essay Writing

## JULY:-

### TEXT- BOOK

- 1.Deep Water
2. The Rat Trap

### SUPPLEMENTARY- BOOK

- 3.The Third Level
- 4.The Tiger King

### WRITING:-

Debate Writing

### GRAMMAR:

Punctuation

## AUGUST:-

### TEXT- BOOK

- 1.Indigo
  - 2.Poets and Pancakes
- ### SUPPLEMENTARY- BOOK
3. Journey to the End of the Earth
  - 4.The Enemy

### WRITING:-

Advertisement

Note - Making

### GRAMMAR:

Reflexive Pronouns

Conjunctions

Prepositions

## **SEPTEMBER:-**

### **TEXT- BOOK**

1. Going Places
2. Keeping Quiet ( Poem)

### **SUPPLEMENTARY:**

1. On the Face of It
2. Memories of Childhood

### **WRITING:**

1. Resume
2. Speech
3. Formal Letter

### **GRAMMAR:**

1. Prepositions
2. Change of Voice

## **OCTOBER:-**

### **TEXT- BOOK:**

1. A Thing of Beauty ( Poem)
2. A Roadside Stand ( Poem)
3. The Interview Part I & II
4. Aunt Jennifer's Tigers ( Poem)

### **WRITING:**

1. Persuasive & Humorous Writing
2. Formal & Informal Invitation
3. Informal Letter

### **GRAMMAR:**

1. Tenses
2. Change of Voice

## **NOVEMBER TO FEBRUARY:-**

**Tests, Recapitulation & Writing Skills**

# COMPUTER

<b>Month</b>	<b>Topic</b>
<b>May</b>	<b>Object oriented programming in C ++</b>
<b>June</b>	<b>Object oriented programming in C ++</b>
<b>July</b>	<b>Constructors and destructor</b>
<b>August</b>	<b>Inheritance</b>
<b>September</b>	<b>Pointers</b>
<b>October</b>	<b>Data structures</b>
<b>November</b>	<b>Project Work &amp; Project File</b>
<b>December</b>	<b>Boolean logic</b>
<b>January</b>	<b>Networking and. Cyber security</b>
<b>February</b>	<b>Revision &amp; Project Work</b>

# Biology

<b>Month</b>	<b>Topic</b>
<b>May</b>	<ul style="list-style-type: none"><li>• <b>Sexual Reproduction in Flowering Plants</b></li><li>• <b>Human Reproduction</b></li></ul>
<b>June</b>	<ul style="list-style-type: none"><li>• <b>Reproductive Health</b></li><li>• <b>Principles of Inheritance and Variation</b></li></ul>
<b>July</b>	<ul style="list-style-type: none"><li>• <b>Molecular Basis of Inheritance</b></li><li>• <b>Evolution</b></li></ul>
<b>August</b>	<ul style="list-style-type: none"><li>• <b>Human Health and Disease</b></li><li>• <b>Microbes in Human Welfare</b></li></ul>
<b>September</b>	<ul style="list-style-type: none"><li>• <b>Biotechnology : Principles and Processes</b></li><li>• <b>Biotechnology and its Applications</b></li></ul>
<b>October</b>	<ul style="list-style-type: none"><li>• <b>Organisms and Populations</b></li><li>• <b>Ecosystem</b></li><li>• <b>Biodiversity and Conservation</b></li></ul>
<b>November</b>	<ul style="list-style-type: none"><li>• <b>Preboards, 11th revisions, Neet papers, Practice</b></li></ul>
<b>December</b>	<ul style="list-style-type: none"><li>• <b>Preboards, 11th revisions, Neet papers, Practice</b></li></ul>
<b>January</b>	<ul style="list-style-type: none"><li>• <b>Preboards, 11th revisions, Neet papers, Practice</b></li></ul>
<b>February</b>	<ul style="list-style-type: none"><li>• <b>Preboards, 11th revisions, Neet papers, Practice</b></li></ul>

# Physics

<b>Month</b>	<b>Topic</b>
<b>May</b>	<ul style="list-style-type: none"><li>• Electric Charges and fields</li><li>• Electrostatic Potential and Capacitance</li></ul>
<b>June</b>	<ul style="list-style-type: none"><li>• Current Electricity</li></ul>
<b>July</b>	<ul style="list-style-type: none"><li>• Moving Charges and Magnetism</li></ul>
<b>August</b>	<ul style="list-style-type: none"><li>• Magnetism and Matter</li></ul>
<b>September</b>	<ul style="list-style-type: none"><li>• Electromagnetic and Induction</li><li>• Alternating Current</li></ul>
<b>October</b>	<ul style="list-style-type: none"><li>• Electromagnetic waves</li><li>• Ray Optics and Optical Instruments</li></ul>
<b>November</b>	<ul style="list-style-type: none"><li>• Wave Optics</li><li>• Dual Nature of Radiation and Matter</li></ul>
<b>December</b>	<ul style="list-style-type: none"><li>• Atom</li><li>• Nuclei</li><li>• Semiconductor Electronics ; Materials, Devices and simple circuits</li></ul>
<b>January</b>	<ul style="list-style-type: none"><li>• Revision</li></ul>
<b>February</b>	<ul style="list-style-type: none"><li>• Revision</li></ul>

## HOLIDAY CALENDAR 2024-25

MONTH	HOLIDAY	DATE	DAY
APRIL	EID-UL-FITR	11-4-2024	THURSDAY
	BAISAKHI	13-4-2024	SATURDAY
	RAM NAVMI	17-4-2024	WEDNESDAY
MAY	BUDH POORNIMA	23-5-2024	THURSDAY
JULY	ASHOORA	17-7-2024	THURSDAY
AUGUST	INDEPENDENCE DAY	15-8-2024	THURSDAY
	RAKSHABANDHAN	19-8-2024	MONDAY
	JANAMASHTAMI	26-8-2024	MONDAY
SEPTEMBER	EID-I-MILAD-UL-NABI	16-9-2024	MONDAY
	EID-I-MILAD-UL-NABI	20-9-2024	FRIDAY
	BIRTHDAY OF MAHARAJA HARI SINGH	23-9-2024	MONDAY
OCTOBER	GANDHI JAYANTI	02-10-2024	WEDNESDAY
	MAHANAVMI	11-10-2024	FRIDAY
	DUSSEHRA	12-10-2024	SATURDAY
	ACCESSION DAY	26-10-2024	SATURDAY
NOVEMBER	DIWALI	01-11-2024	FRIDAY
	GURU NANAK DEV JI'S BIRTHDAY	15-11-2024	FRIDAY
DECEMBER	CHRISTMAS	25-12-2024	MONDAY
JANUARY	GURU GOBIND JAYANTI	17-01-2025	WEDNESDAY
	LOHRI	13-01-2025	MONDAY
	REPUBLIC DAY	26-01-2025	SUNDAY
FEBRUARY	MAHASHIVRATRI	26-02-2025	WEDNESDAY
MARCH	HOLI	14-03-2025	FRIDAY
	EID-UL-FITR	31-03-2025	MONDAY

### HOLIDAY SCHEDULE:

Summer Break	Starts From 3rd June 2024
School Reopens	22nd July 2024
Diwali Break	Starts From 30th October To 3rd November
School Reopens On	4th Nov.2024
Winter Break	Starts 28th Dec. To 14th Jan.2025
School Reopens On	15th January 2025

**Note: The School Reserves Right To Make Any Change In The Schedule / Date Of Any Event, Holiday Etc. With Prior Information .**

# PARENT TEACHER MEETING SCHEDULE 2024-25

Parent Teacher Meet (AN OPEN HOUSE) is a short meeting or conference between the parents and teachers of students to discuss a child's progress at school and find remedial measures. It supplements the information conveyed by focusing on student's strengths and weaknesses and generalizing the level of inter curricular skills and competences.

<b>Schedule</b>	<b>Ptm-Open House</b>
<b>Unit Test - I</b>	<b>Last Week of July 2024</b>
<b>Unit Test - II</b>	<b>Last week of August 2024</b>
<b>Half Yearly</b>	<b>Starting October 2024</b>
<b>Unit Test - III</b>	<b>Mid. of November 2024</b>
<b>Pre- Board - I</b>	<b>Ending December 2024</b>

# ACTIVITY AND COMPETITION CALENDAR 2024-25

Competition	Date	Day	Grade
Fireless Cooking	29th May	Wednesday	Grade 5,6,7,8
Inter House Yoga Competition	31st May	Friday	Grade 8th To 12th
Poem Recitation	26th July	Friday	Grade 1,2
Story Narration	27th July	Saturday	Grade 3,4,5
Intr House Debate Competition - Live	31st July	Wednesday	Grade 6,7
Essay Writing On Current Affairs	3rd August	Saturday	Grade 8,9,10
Independence Day Dress Parade	14th August	Wednesday	Grade 1,2
Ind. Day Role Play	14th August	Wednesday	Grade 3,4
Independence Day Slogan Writing	14th August	Wednesday	Grade 5,6
Inter House Patriotic Song Competition	14th August	Wednesday	7,8,9
Hindi Saptah (Inter House)	9th Sept - 14th	Mon-Sat	Grade 1-10
Inter House Natak Pratiyogita	13th September	Friday	3 To 9
Dandiya Celebration	10th October	Thursday	All Grades
Best Out Of Waste	19th October	Saturday	Grade 3 To 7
Diwali Utsav	29th October	Tuesday	Grade 1-10
Inter House Dance Drama Compt.	14th November	Thursday	Grade 4 To 9
(Show & Tell)	15th November	Friday	Grade 1,2,3
Christmas Fair	25th December	Wednesday	School

## CELEBRATION DATES

CELEBRATION	DATE	DAY
BAISAKHI CELEBRATION	12 <sup>th</sup> April	FRIDAY
EID- UL-FITR	11 <sup>th</sup> April	THURSDAY
EARTH DAY	22 <sup>nd</sup> April	MONDAY
MAY DAY	1 <sup>st</sup> May	WEDNESDAY
MOTHERS DAY	18 <sup>th</sup> May	SATURDAY
INVESTITURE CEREMONY (TENTATIVE)	30 <sup>th</sup> May	THURSDAY
NELSON MANDELA DAY	18 <sup>th</sup> July	TUESDAY
INDEPENDENCE DAY	14 <sup>th</sup> August	WEDNESDAY
RAKSHABANDHAN	17 <sup>th</sup> August	SATURDAY
JANAMASHTAMI	24 <sup>th</sup> August	SATURDAY
TEACHERS DAY	5 <sup>th</sup> September	THURSDAY
BIRTHDAY MAHARAJA HARI SINGH	21 <sup>st</sup> September	SATURDAY
GANDHI JAYANTI	1 <sup>st</sup> October	TUESDAY
DANDIYA CELEBRATION	10 <sup>th</sup> October	THURSDAY
HALLOWEEN	31 <sup>st</sup> October	THURSDAY
DIWALI UTSAV	29 <sup>th</sup> October	TUESDAY
CHILDREN'S DAY	14 <sup>th</sup> November	THURSDAY
ANNUAL DAY (TENTATIVE)	29 <sup>th</sup> November	FRIDAY
CHRISTMAS CELEBRATION (KISAN DIWAS)	24 <sup>th</sup> December	TUESDAY
REPUBLIC DAY	25 <sup>th</sup> January ' 25	SATURDAY
BASANT PANCHAMI	3 <sup>rd</sup> February' 25	MONDAY
MAHASHIVRATRI	25 <sup>th</sup> February'25	TUESDAY
HOLI	14 <sup>th</sup> March'25	FRIDAY
EID-UL-FITR	31 <sup>st</sup> March'25	MONDAY