



# S G PUBLIC SR. SEC. SCHOOL

Vasundhara, Ghaziabad

CLASS – XII, SCI Syllabus (2024-25)

SUBJECT: ENGLISH

NAME OF THE BOOKS: NCERT

MONTH	CHAPTER NUMBER	CHAPTER NAME	EXAMS
April	<b>Flamingo</b>  <b>Vistas</b>	<b>Prose-</b> The Last Lesson Lost Spring <b>Poem-</b> My Mother at sixty-six The Third Level <b>Writing-</b> Notice Writing <b>Reading-</b> Comprehension (Factual, Descriptive)	
May	<b>Flamingo</b>  <b>Vistas</b>	<b>Prose-</b> Deep Water The Rattrap <b>Poem-</b> Keeping Quiet The Tiger King <b>Writing-</b> Invitation replies (Formal and Informal), Application for Job with Resume/ Bio-Data <b>Reading-</b> Comprehension (Factual, Descriptive)	<b>UT-1</b> <b>Flamingo-</b> The last Lesson, Lost Spring <b>Poem-</b> My Mother at sixty-six  <b>Vistas-</b> The Third Level <b>Writing-</b> Notice <b>Reading-</b> Comprehension (Factual, Descriptive or literary or data inputs etc.)
July	<b>Flamingo</b>  <b>Vistas</b>	<b>Prose-</b> Indigo Poets and Pancakes <b>Poem-</b> A thing of beauty Journey to the end of the earth <b>Writing-</b> Report Writing <b>Reading-</b> Comprehension (Factual, Descriptive)	<b>UT-2</b> <b>Flamingo-</b> Deep waters, The Rattrap <b>Poem-</b> Keeping quiet <b>Vistas-</b> The Tiger King <b>Writing-</b> Invitation replies <b>Reading-</b> Comprehension (Factual, Descriptive or literary or data inputs etc.)
August	<b>Flamingo</b>  <b>Vistas</b>	<b>Prose-</b> The Interview Going Places <b>Poem-</b> A Roadside stand The Enemy	

		On the face of it <b>Writing-</b> Speech writing <b>Reading-</b> Comprehension (Factual, Descriptive)	
September	Anything left out in above months will be completed.	<b>REVISION for half-yearly Examination</b>	<b>Flamingo-</b> Lost Spring, Rattrap, The Interview, Going Places <b>Poem-</b> Keeping Quiet, A thing of Beauty, a roadside Stand <b>Vistas-</b> The Enemy, On the face of it, Journey to the End of the earth. <b>Writing-</b> Notice, Invitation, Speech, Report <b>Reading-</b> Comprehension (Factual, Descriptive or literary or data inputs etc.)
October	<b>Flamingo</b>  <b>Vistas</b>	<b>Prose-</b> Revision of previously taught chapter <b>Poem-</b> Aunt Jennifer's tigers Memories of childhood <b>Writing-</b> Formal Letters <b>Reading-</b> Comprehension (Factual, Descriptive)	
November	Anything left out in above months will be completed	Revision	<b>PRE-BOARD - 1</b>
December	Revision	Board Preparations Revision with sample papers	<b>PRE-BOARD - 2</b>
January		PRACTICALS	
February	CBSE Boards		<b>ANNUAL EXAM</b> Whole Book As Per CBSE Syllabus

## Syllabus of the Session 2024-25

**Class:XII**

**Subject** : **Biology**  
**Name of the Books** : **Ncert**  
**Ncert Exemplar**

<b>MONTH</b>	<b>CHAPTERNUMBER</b>	<b>CHAPTERNAME</b>	<b>EXAMS</b>
April	Chapter 1 Chapter 2	Sexual Reproduction in Flowering Plants Human Reproduction	
May	Chapter 3 Chapter 7 Chapter 8	Reproductive Health Human Health and Diseases Microbes in Human Welfare	UT-1 TOPICS-  Chapter - 1 Chapter – 2 Chapter - 3
July	Chapter 4 Chapter 5 Chapter-6	Principles of Inheritance and Variation Molecular Basis of Inheritance Evolution	
August	Chapter- 9 Chapter 10	Biotechnology – Principles and Processes Biotechnology and its Applications	UT-2 TOPICS- Chapter - 4 Chapter - 5 Chapter- 6
September	Chapter 11 Chapter-12 Chapter 13	Organisms and Populations Ecosystem Biodiversity and Its Conservation	<b>HALFYEARLYEXAM</b> TOPICS- Highlight repeated topics from UT1/UT2 Chapter- 1,2,3,4,5,6,7,8,9,10
October	Revision		
November	Revision		<b>PB 1</b>
December			Pre Board - 2
January		Practicals	

**PHYSICAL EDUCATION (048), SYLLABUS (2024-25)**

<b>MONTH</b>	<b>CHAPTER NAME</b>	<b>EXAMS</b>
APRIL	CHAPTER-1 MANAGEMENT OF SPORTS EVENT	
MAY	CHAPTER-2 CHILDREN AND WOMEN IN SPORTS	<b>UNIT TEST – 1</b>
JUNE	HOLIDAY HOME WORK PRACTICAL-1 FITNESS TESTS ADMINISTRATION SAI KHELO INDIA TEST. PRACTICAL-2 PROCEDURE FOR ASANAS, BENEFITS & CONTRAINDICATION FOR ANY TWO ASANAS FOR EACH LIFESTYLE DISEASE.	PRACTICAL- 1 &2
JULY	CHAPTER-3 YOGA AS PREVENTIVE MEASURE FOR LIFESTYLE DISEASE CHAPTER-4 PHYSICAL EDUCATION AND SPORTS FOR CWSN(CHILDREN WITH SPECIAL NEED-DIVYANG) CHAPTER-5 SPORTS AND NUTRITION	
AUG	CHAPTER-6 TEST & MEASUREMENT IN SPORTS CHAPTER-7 PHYSIOLOGY & INJURIES IN SPORTS CHAPTER-8 BIOMECHANICS & SPORTS	<b>UNIT TEST – 2</b>
SEP	<b>HALF YEARLY EXAM</b> CHAPTER-1 TO CHAPTER -5	PRACTICAL-3 Anyone game of your choice. Labeled diagram of field & equipment (Rules, Terminologies & Skills).
OCT	CHAPTER-9 PSYCHOLOGY IN SPORTS CHAPTER-10 TRAINING IN SPORTS	
NOV	REVISION OF WHOLE SYLLABUS	PRE BOARD - 1
DEC	REVISION OF WHOLE SYLLABUS	PRE BOARD 2
JAN		
FEB		PRACTICALS

## Syllabus of the Session 2024-25,

### Class: XII

**Subject** : COMPUTER SCIENCE (083)  
**Name of the Books** : COMPUTER SCIENCE WITH PYTHON  
( Preeti Arora )

<b>MONTH</b>	<b>CHAPTER NUMBER</b>	<b>CHAPTER NAME</b>	<b>EXAMS</b>
March	Chapter -1	Review of Python Basics	
April	Chapter -1 Chapter-2	Review of Python Basics Functions	
May	Chapter-8 Chapter-9	Relational Database and SQL Interface Python with SQL	<b>UT-1</b> : Ch-1 : Review of Python Basics Ch-2 : Functions Ch-8: Relational Database and SQL
July	Chapter-3	Using Python Libraries	
August	Chapter-7	Computer Network	<b>UT-2</b> : Ch-3 : Using Python Libraries Ch-7: Computer Network Ch-9: Interface Python with SQL
September	Chapter -4	Data file Handling	<b>HALF YEARLY EXAM</b> Ch-1 : Review of Python Basics Ch-2 : Functions Ch-3 : Using Python Libraries Ch-7 : Computer Network Ch-8 : Relational Database and SQL Ch-4 : Data file Handling Ch-9 : Interface Python with SQL
October	Chapter-6	Data Structure in Python	
November	Revision		<b>Preboard-1</b> <b>Whole Syllabus</b>
December	Revision		<b>Preboard-2</b> <b>Whole Syllabus</b>
January			<b>Practicals</b>

## Syllabus of the Session 2024-25, Class : XII

**Subject** : **INFORMATION TECHNOLOGY(802)**  
**Name of the Books** : **INFORMATION TECHNOLOGY-**  
**( By Preeti Saxena)**

<b>MONTH</b>	<b>CHAPTER NUMBER</b>	<b>CHAPTER NAME</b>	<b>EXAMS</b>
March	Unit-3 (Part B)	Database Concepts– RDBMS Tool	
April	Unit-3 (Part B) Unit-2 (Part B)	Database Concepts– RDBMS Tool Unit-2:OperatingWebBased Applications	
May	Unit-1 (Part B) Unit-3 (Part A)	Fundamentals of java  ICT Skills-IV	<b>UT 1:</b> 1. Database Concepts– RDBMS Tool 2.OperatingWebBased Applications
July	Unit-3 (Part B)  Unit-2 (Part A)	JAVA - Fundamentals of Java programming, Introduction to Java, Object Oriented Programming, Java Language Elements Self-Management Skills-IV	
August	Unit-3 (Part B)  Unit-1 (Part A)	JAVA – Fundamentals : Operators, Control Flow, Array, Class Design, Exception Handling, Communication Skills- IV	<b>UT-2</b> 1. Fundamentals of java 2. Self-Management Skills- IV 3. Communication Skills- IV
September	Unit- 3 (Part B)  Unit (Part A)	JAVA - Fundamentals : Assertions, Threads, Wrapper Classes, String Manipulation  Entrepreneurial Skills - IV	<b>HALF YEARLY EXAM</b> 1. ICT Skills-IV 2. Entrepreneurial Skills- IV 3. Database Concepts– RDBMS Tool 4. Fundamentals of java 5. Self-Management Skills- IV 6. Communication Skills- IV 7. Entrepreneurial Skills - IV
October	Unit-5 (Part A) Unit-4 (Part B)	Green Skills-IV  Work Integrated Learning IT– DMA	
November	Revision		PREBOARD 1 Whole syllabus
December	Revision		PREBOARD 2 Whole syllabus
January	Revision		Practicals

## Syllabus of the Session 2024 – 25, MATHEMATICS

Name of the Books

NCERT, NCRT EXAMPLAR, R D SHARMA

MONTH	CHAPTER NUMBER	CHAPTER NAME	EXAMS
April	Ch. – 2 Ch. - 3 Ch. - 4	Inverse Trigonometry Matrices Determinants	
May	Ch. – 01 Ch. – 12	Relations and Functions Linear Programming	UT-1 TOPICS Inverse Trigonometry Matrices Determinants
July	Ch. – 05 Ch. – 06	Continuity and Differentiability Applications of Derivatives	
August	Ch. – 07 Ch. – 08	Integration Application of Integrals	UT-2 TOPICS Relations and Functions Linear Programming, Determinants
September	Ch. – 09 Ch. - 10	Differential Equations Vectors	HALF YEARLY EXAM TOPICS Continuity and Differentiability Applications of Derivatives, Integration, Application of Integrals
October	Ch. – 11 Ch. – 13	Three Dimensional Geometry Probability	
November		Revision of whole syllabus	Pre board - 1
December		Revision of whole syllabus	Pre Board – 2

### MATH ACTIVITIES TO BE DONE CLASS XII (2024 – 25)

**Activity 1:** To verify that the relation R in the set L of all lines in a plane, defined by  $R = \{(l, m) : l \perp m\}$  is symmetric but neither reflexive nor transitive.

**Activity 2:** To verify that the relation R in the set L of all lines in a plane, defined by  $R = \{(l, m) : l \parallel m\}$  is an equivalence relation.

**Activity 3:** To demonstrate a function which is not one-one but is onto.

**Activity 4:** To demonstrate a function which is one-one but not onto.

**Activity 5:** To draw the graph of  $\sin^{-1} x$ , using the graph of  $\sin x$  and demonstrate the concept of mirror reflection (about the line  $y = x$ ).

**Activity 6:** To explore the principal value of the function  $\sin^{-1} x$  using a unit circle.

**Activity 7:** To sketch the graphs of  $a^x$  and  $\log_a x$ ,  $a > 0$ ,  $a \neq 1$  and to examine that they are mirror images of each other.

**Activity 8:** To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base e) of the number x.

**Activity 9:** To find analytically the limit of a function  $f(x)$  at  $x = c$  and also to check the continuity of the function at that point.

**Activity 10:** To verify that for a function f to be continuous at given point  $x_0$ ,  $\Delta y = |f(x_0 + \Delta x) - f(x_0)|$  is arbitrarily small provided.  $\Delta x$  is sufficiently small.

## Syllabus of the Session 2024 – 25, CHEMISTRY

**NAME OF BOOK :**

**: NCERT**

MONTH	CHAPTER NUMBER	CHAPTER NAME	EXAM	REMARKS
APRIL	CHAPTER-1 CHAPTER-2	SOLUTION Electro chemistry		
MAY	CHAPTER-3	Chemical kinetics	UT-1 TOPICS :- 1.SOLUTION 2.Electrochemistry 3. Chemical kinetics	
JULY	CHAPTER-4 CHAPTER-5	D and f block elements Coordination compounds		
AUGUST	CHAPTER-6 CHAPTER-7	Haloalkanes and haloarenes Alcohols , phenols and ethers	UT-2, TOPICS :- 1. D and f block elements 2. Coordination compounds 3. Haloalkanes and haloarenes	
SEPTEMBER	CHAPTER-8	Aldehyde, ketone and carboxylic acid	HALF YEARLY EXAM TOPICS :- 1. Solution 2. Electro chemistry 3. Chemical kinetics 4. D and f block elements 5. Coordination compounds 6. Haloalkanes and haloarenes 7. Alcohols phenols and ethers	
OCTOBER	CHAPTER-9 Chapter -10	Amines Biomolecules		
NOVEMBER	REVISION and practice		PRE – BOARD - 1	
DECEMBER			PRE – BOARD - 2	



## PRACTICALS

Month	chapter	Topic
April-May	Surface chemistry	<p>a. Preparation of one lyophobic and one lyophilic sol Lyophilic sol – starch,egg albumin and gum Lyophobic sol- aluminium hydroxide,ferric hydroxide,arsenous sulphide.</p> <p>b. Dialysis of sol prepared in (a) above</p> <p>c. Study of the role of emulsifying agents in stabilizing the emulsion of different oils.</p>
July-August	Titration,salt analysis	
September	Salt analysis, chemical analysis of organic compounds	

## Syllabus of the Session 2024 – 25, PHYSICS

**NAME OF BOOK :**

**: NCERT**

MONTH	CHAPTER NUMBER	CHAPTER NAME	EXAM	REMARKS
April	Chapter - 1	Electric Charges and Fields		
MAY	Chapter -11 Chapter -12	Dual Nature of Radiation and Matter Atoms	U T -1, TOPICS 1. Electric Charges and Fields 2. Dual Nature of Radiation and Matter	
JULY	Chapter -2 Chapter – 3	Electrostatic Potential and Capacitance Current Electricity		
AUGUST	Chapter -4 Chapter -5 Chapter -6	Moving Charges and Magnetism Magnetism and Matter Electromagnetic Induction	U T -2, TOPICS 1. Electrostatic Potential and Capacitance 2. Current Electricity 3. Moving Charges and Magnetism 4. Magnetism and Matter	
SEPT	Chapter -7 Chapter–8	Alternating Current Electromagnetic Waves	Half Yearly Exam Topics 1. Electric Charges and Fields. 2. Electrostatic Potential and Capacitance 3. Current Electricity 4. Moving Charges and Magnetism 5. Magnetism and Matter. 6. Electromagnetic Induction 7. Alternating Current 8. Electromagnetic Waves. 9 . Dual Nature of Radiation and Matter 10. Atoms	

MONTH	CHAPTER NUMBER	CHAPTER NAME	EXAM	REMARKS
OCT	Chapter -9 Chapter- 10 Chapter -13 Chapter-14	Ray Optics and Optical Instruments Wave Optics Nuclei Semiconductor		
NOV		REVISION	First Pre board Topics Whole syllabus	
DEC		REVISION	Second Pre board Topics Whole syllabus	
JAN		Revision Board practical		
FEB			Practicals	