

**DAV CENTENARY PUBLIC SCHOOL , PASCHIM ENCLAVE , NEW DELHI-87**

**SYLLABUS (2024-25)**

**CLASS-XII (SCIENCE)**

**MATHEMATICS**

**SYLLABUS OF HALF-YEARLY EXAM (TERM-I)**

**SYLLABUS OF ANNUAL EXAM (TERM-II)**

S.NO.	CONTENT
1.	Matrices
2.	Determinants
3.	Relations and Functions
4.	Inverse Trigonometric Functions
5.	Continuity and Differentiability
6.	Application of Derivatives
7.	Integrals
8.	Application of Integrals
9.	Linear Programming

S.NO.	CONTENT
1.	Differential Equations
2.	Vectors
3.	Three-Dimensional Geometry
4.	Probability
	<b>Note: Annual Examination- CBSE BOARD- Full Syllabus</b>

**SYLLABUS FOR SPECIAL TEST, PERIODIC TEST AND PRE-BOARD**

SPECIAL TEST (APRIL-MAY)	PT-I (JULY)	SPECIAL TEST (NOVEMBER)	PRE-BOARD -1 (DECEMBER)	PRE-BOARD-2 (JANUARY)
Matrices	Relations and Functions	Integrals	Full Syllabus	Full Syllabus
Determinants	Inverse Trigonometric Functions	Application of Integrals		
	Continuity and Differentiability	Differential Equations		

## PHYSICS

### SYLLABUS OF HALF-YEARLY EXAM (TERM-I)

S.NO.	CONTENT
1.	CHARGE & COULOMB'S LAW
2.	ELECTRIC FIELD & FLUX
3.	ELECTRIC POTENTIAL
4.	CAPACITANCE
5.	CURRENT ELECTRICITY
6.	MOVING CHARGE & MAGNETISM
7.	MAGNETISM & MATTER
8.	ELECTROMAGNETIC INDUCTION
9.	ALTERNATING CURRENT
10.	ELECTROMAGNETIC WAVES

### SYLLABUS OF ANNUAL EXAM (TERM-II)

S.NO.	CONTENT
1.	RAY OPTICS
2.	WAVE OPTICS
3.	DUAL NATURE OF RADIATION AND MATTER
4.	ATOM
5.	NUCLIE
6.	ELECTRONIC DEVICES: SEMICONDUCTOR & SIMPLE CIRCUITS

**NOTE: Syllabus of first term also included in the second term examination.**

### SYLLABUS FOR CLASS TEST / SPECIAL TEST AND PERIODIC TEST

SPECIAL / CLASS TEST (APRIL-MAY)	PT-I (JULY)	SPECIAL TEST (OCTOBER/NOVEMBER)	PRE-BOARD-I	PRE-BOARD -II
<ul style="list-style-type: none"><li>➤ Electric charges</li><li>➤ Electric field &amp; flux</li><li>➤ Electric potential</li><li>➤ Capacitance</li></ul>	<ul style="list-style-type: none"><li>➤ Current electricity</li><li>➤ Magnetic effects of current</li><li>➤ Moving charge and magnetism</li></ul>	<ul style="list-style-type: none"><li>➤ Ray optics</li><li>➤ Wave optics</li></ul>	<ul style="list-style-type: none"><li>➤ Entire Syllabus</li></ul>	<ul style="list-style-type: none"><li>➤ Entire Syllabus</li></ul>

## CHEMISTRY

### SYLLABUS FOR CLASS TEST / SPECIAL TEST AND PERIODIC TEST

SPECIAL / CLASS TEST (APRIL-MAY)	PT-I (JULY)	HALF YEARLY EXAM (SEPTEMBER)	SPECIAL TEST (OCTOBER/NOVEMBER)	PRE-BOARD-I	PRE-BOARD-II
ALKYL HALIDE AND ARYL HALIDE	SOLUTION	ALKYL HALIDE AND ARYL HALIDE	AMINES	WHOLE SYLLABUS	WHOLE SYLLABUS
	ALCOHOL, PHENOL AND ETHER	ALCOHOL, PHENOL AND ETHER	CO-ORDINATION COMPOUNDS		
		ALDEHYDE, KETONE AND CARBOXYLIC ACID			
		CHEMICAL KINETICS			
		BIOMOLECULES			
		SOLUTION			
		ELECTROCHEMISTRY			

\* Syllabus of Annual Term includes both TERM I and TERM II

## BIOLOGY

### SYLLABUS OF HALF-YEARLY EXAM (TERM-I)

S.NO.	CONTENT
1.	Sexual Reproduction in Flowering Plants
2.	Human Reproduction
3.	Reproductive Health
4.	Principles of Inheritance
5.	Molecular Basis of Inheritance
6.	Human Health

### SYLLABUS OF ANNUAL EXAM (TERM-II)

S.NO.	CONTENT
1.	Microbes in Human welfare
2.	Biotechnology - principles and processes
3.	Biotechnology and its application
4.	Evolution
5.	Organisms and population
6.	Ecosystem
7.	Biodiversity and conservation
8.	<b>Along with first term chapters</b>

\* Syllabus of Annual Term includes both TERM I and TERM II

### SYLLABUS FOR CLASS TEST / SPECIAL TEST AND PERIODIC TEST

SPECIAL / CLASS TEST (APRIL-MAY)	PT-I (JULY)	PT-II (NOVEMBER)	PT-III (JANUARY)	SPECIAL TEST/ PRE-BOARD
Sexual Reproduction in flowering plants	1. Sexual Reproduction in flowering plants	Full course	Full course	Full course
	2. Human Reproduction			

## COMPUTER SCIENCE

### SYLLABUS OF HALF YEARLY EXAM (TERM -I)

Sno.	CONTENT
1	Relational Databases
2	Simple Queries in SQL
3	Interface Python with MySQL
4	Working with Functions
5	Python Revision Tour-I
6	Python Revision Tour -II
7	Using Python Libraries

### SYLLABUS OF ANNUAL EXAM (TERM -II)

Sno.	CONTENT
1	Relational Databases
2	Simple Queries in SQL
3	Interface Python with MySQL
4	Working with Functions
5	Python Revision Tour-I
6	Python Revision Tour -II
7	Using Python Libraries
8	File Handling
9	Data Structures: Stacks
10	Exception Handling

Special Test/Class Test (April-May)	Pt-1 (July)	Special Test (November)	Special Test (Pre Board)
<ol style="list-style-type: none"><li>1. Relational Databases</li><li>2. Simple Queries in SQL</li></ol>	<ol style="list-style-type: none"><li>1. Relational Databases</li><li>2. Simple Queries in SQL</li><li>3. Interface Python with Mysql</li><li>4. Python Revision Tour -I</li></ol>	** Same as Annual Exam	** Same as Annual Exam

# PHYSICAL EDUCATION

## SYLLABUS

2024-25

### PHYSICAL EDUCATION (048) CLASS XII

<b>Theory</b>	-	<b>70 Marks</b>
<b>Practical</b>	-	<b>30 Marks</b>
<b>Total</b>	-	<b>100 Marks</b>

Unit 1 Management of sporting events

Unit 2 Children and women in sports

Unit 3 Yoga as preventive measure for lifestyle disease

Unit 4 Physical education and sports for CWSN (Children with special needs - Divyang)

Unit 5 Sports and nutrition

Unit 6 Test and measurement in sports

Unit 7 Physiology and Injuries in sports

Unit 8 Biomechanics and sports

Unit 9 Psychology and sports

Unit 10 Training in sports

#### **Special Test (April- May)**

Unit 1 Management of sporting events

Unit 2 Children and women in sports

#### **P.T. I (July)**

Unit 3 Yoga as preventive measure for lifestyle disease

Unit 4 Physical education and sports for CWSN (Children with special needs - Divyang)

#### **Syllabus for Half yearly**

Unit 1 Management of sporting events

Unit 2 Children and women in sports

Unit 3 Yoga as preventive measure for lifestyle disease

Unit 4 Physical education and sports for CWSN (Children with special needs - Divyang)

Unit 5 Sports and nutrition

Unit 6 Test and measurement in sports

Unit 7 Physiology and Injuries in sports

#### **Special Test (November)**

Unit 8 Biomechanics and sports

Unit 9 Psychology and sports

#### **PRE BOARD 1 ( December) Full syllabus**

Unit 1 Management of sporting events

Unit 2 Children and women in sports

Unit 3 Yoga as preventive measure for lifestyle disease

Unit 4 Physical education and sports for CWSN (Children with special needs -

Divyang) Unit 5 Sports and nutrition

Unit 6 Test and measurement in sports

Unit 7 Physiology and Injuries in sports

Unit 8 Biomechanics and sports

Unit 9 Psychology and sports

Unit 10 Training in sports

## ARTIFICIAL INTELLIGENCE

### SYLLABUS OF HALF YEARLY EXAM (TERM -I)

S.NO.	CONTENT
1.	Unit 1: Capstone Project
2.	Unit 2: Model Lifecycle
3.	Employability SKILLS

### SYLLABUS OF ANNUAL EXAM (TERM -II)

S.NO.	CONTENT
1.	Unit 1: Capstone Project
2.	Unit 2: Model Lifecycle
3.	Unit 3: Storytelling Through Data
4.	Employability SKILLS

Special Test (April-May)	PT-1 (July)	Special Test (November)	Pre-Board-1 (December)	Pre-Board-2 (January)
Unit 1: Capstone Project	Unit 2: Model Lifecycle	Unit 3: Storytelling Through Data	Full Syllabus	Full Syllabus

S.NO.	PRACTICAL
1.	<b>Student Capstone Project (PRACTICAL)</b> Student AI project Development & Presentation (Teamwork): Submission of Project Logbook and Video presentation

## ENGLISH

### SYLLABUS OF HALF-YEARLY EXAM (TERM-I)

S.NO.	CONTENT
1.	SECTION A – READING SKILLS: A. One Unseen Passage for comprehension B. One case-based comprehension passage
2.	Writing Skills A. Notice writing B. Invitations(all types) and their replies C. Letter writing (to the editor, job application) D. Article/Report writing
3.	Literature Flamingo: The Last Lesson, My Mother at Sixty-six, Lost Spring, Deep Water, Keeping Quiet, A Thing of Beauty The Rattrap, Indigo, A Roadside Stand Vistas: The Third Level, The Tiger King, Journey to the End of the Earth, The Enemy

### SYLLABUS OF ANNUAL EXAM (TERM-II)

S.NO.	CONTENT
1.	SECTION A – READING SKILLS: One Unseen Passage for comprehension One case-based comprehension passage
2.	Writing Skills A. Notice writing B. Invitations(all types) and their replies C. Letter writing (to the editor, job application) D. Article/Report writing
3.	Literature Flamingo: The Last Lesson, My Mother at Sixty-six, Lost Spring, Deep Water, Keeping Quiet, A Thing of Beauty The Rattrap, Indigo, Poets and Pancakes, A Roadside Stand The Interview, Going Places, Aunt Jennifer’s Tigers Vistas: The Third Level, The Tiger King, Journey to the End of the Earth, The Enemy, On the Face of it, Memories of Childhood

### SYLLABUS FOR CLASS TEST / SPECIAL TEST AND PERIODIC TEST

SPECIAL / CLASS TEST (APRIL-MAY)	PT-I (JULY)	SPECIAL TEST (NOVEMBER)	SPECIAL TEST/ PRE-BOARD
class test: The Last Lesson, My Mother at Sixty-six, notice writing	Third Level, The Tiger King, Keeping Quiet	SECTION A – READING SKILLS: A. One Unseen Passage for comprehension B. One case-based comprehension passage Writing Skills A. Notice writing B. Invitations(all types) and their replies C. Letter writing (to the editor, job application) D. Article/Report writing Literature Flamingo: The Last Lesson, My Mother at Sixty-six, Lost Spring, Deep Water, Keeping Quiet, A Thing of Beauty, The Rattrap, Indigo, Poets and Pancakes, A Roadside Stand Vistas: The Third Level, The Tiger King, Journey to the End of the Earth, The Enemy	SECTION A – READING SKILLS: A. One Unseen Passage for comprehension B. One case-based comprehension passage Writing Skills A. Notice writing B. Invitations(all types) and their replies C. Letter writing (to the editor, job application) D. Article/Report writing Literature Flamingo: The Last Lesson, My Mother at Sixty-six, Lost Spring, Deep Water, Keeping Quiet, A Thing of Beauty, The Rattrap, Indigo, Poets and Pancakes, A Roadside Stand, The Interview, Going Places, Aunt Jennifer’s Tigers Vistas: The Third Level, The Tiger King, Journey to the End of the Earth, The Enemy, On the Face of it, Memories of Childhood