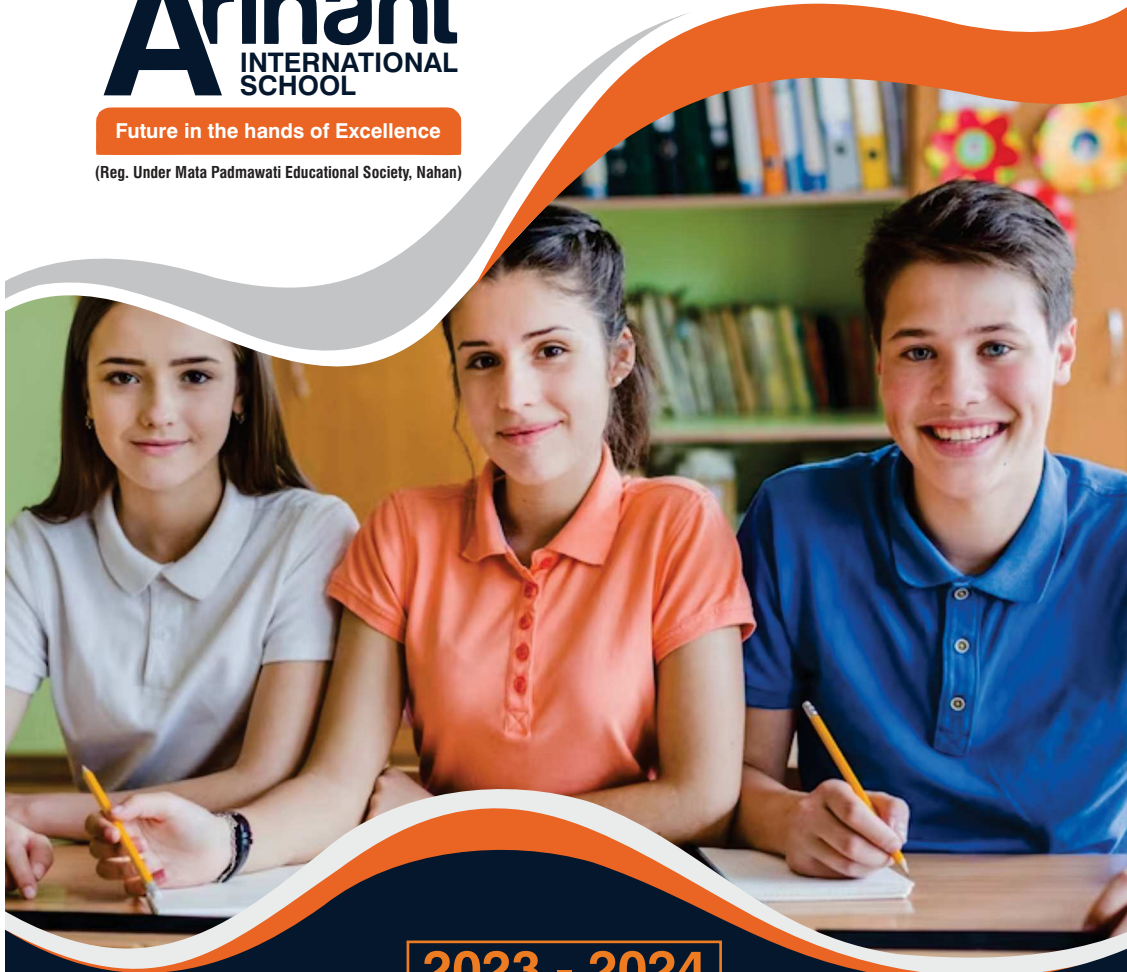




Future in the hands of Excellence

(Reg. Under Mata Padmawati Educational Society, Nahani)



2023 - 2024

SYLLABUS FOR CLASS XII

SCIENCE- MED & NON MED

ARIHANT INTERNATIONAL SCHOOL, NAHAN
DISTRICT SIRMOUR, HIMACHAL PRADESH 173001

AFFILIATED TO CBSE BOARD DELHI

AFFILIATION NO.: 630340

Arihant International School, Nahan
Session: 2023-24
Syllabus for Class-XII (SCIENCE)

Evaluation System: The academic year is divided into two terms viz-April to September and October to March each ending with Terminal Examination. Each term shall also have one periodic test.

Periodic-1	WTG	Term-I	WTG	Periodic-2	WTG	Term-II	WTG	Total
40	10	80	20	40	10	80	60	100

WEIGHTAGE OF SYLLABUS:

Examination	Weightage of Syllabus
Periodic-1	20%
Term-I	55%
Periodic-2	20%
Term-II	100%

Examination Dates :

Term	Exam Dates (Tentative)
Periodic-1	12 June to 22 June
Term-I	11 Sep to 22 Sep
Periodic-2	27 Nov to 8 Dec
Pre-board/Term-II	Jan/March

Arihant International School, Nahan
Split of Syllabus for session 2023-24
Class-XII (SCIENCE)

Sr. No.	Subject	Name of the Book
1	Biology	NCERT For Reference Companion Biology Or Modern ABC
2	English	Flamingo Vistas Writing
3	Chemistry	NCERT For Reference Vinesh Publication Companion Chemistry By Dinesh
4	Physical Education	CBSE Physical Education Text book New light series or saraswati publication
5	Maths	NCERT Book Reference Book Xact Mathematics
6	Computer Science	Computer Science with Python
7	Physics	NCERT, For Reference Modern ABC of Physics Companion Physics - Vinesh Publication

Split of Syllabus for session 2023-24

SUBJECT - ENGLISH CORE (301)

Periodic - 1

Flamingo

Chapter 1 –The Last Lesson

Chapter 2- Lost Spring

Poem- My Mother at Sixty Six

Poem- Aunt Jennifer's Tiger

Vistas

Chapter 1-The Third Level

Chapter 2- The Tiger King

Writing

Notice writing

Letter writing –Job application

Term- I

Flamingo

Chapter 1 –The Last Lesson

Chapter 2- Lost Spring

Chapter 3- Deep Water

Chapter 4-The Rattrap

Poem- My Mother at Sixty Six

Poem- keeping Quit

Poem- Aunt Jennifer's Tiger

Vistas

Chapter 1-The Third Level

Chapter 2- The Tiger King

Chapter3- Journey to the End of the Earth

Writing

Notice writing, invitation,

Letter writing –Job application, Letter to Editor

Article Writing

Periodic 2

Flamingo

Chapter 5 –Indigo

Chapter6 - Poets and Pancakes

Poem- A Thing of Beauty

Poem- A Roadside Stand

Vistas

Chapter 4-The Enemy

Chapter 5- On the Face of It

Writing

Replies to the invitations , Report Writing

Term II/ Pre-Board

(Whole syllabus)

Flamingo

Chapters –

.The Last Lesson

. Lost Spring

. Deep Water

.The Rattrap

.Indigo

.Poets and Pancakes

.The Interview

.Going Places

Poems-

.My Mother at Sixty Six

.keeping Quit

.Aunt Jennifer's Tiger

.A Thing of Beauty

.A Roadside Stand

Vistas

.The Third Level

.The Tiger King

.Journey to the End of the Earth

.The Enemy

.On the Face of It

.Memories of childhood

-The Cutting of My Long Hair

- We Too are Human Beings

Writing

.Notice writing .Formal/informal invitation and replies

.Letter writing –letter to Editor, based on verbal/visual Input, Job application,

.Article Writing, report

Writing

SUBJECT - PHYSICAL EDUCATION (048)

Periodic - 1

Unit-1: MANAGEMENT OF SPORTING EVENTS

Unit-2: CHILDREN AND WOMEN IN SPORTS

Term- I

Unit-1: MANAGEMENT OF SPORTING EVENTS

Unit-2: CHILDREN AND WOMEN IN SPORTS

unit-3: YOGA AS PREVENTIVE MEASURES FOR LIFESTYLE DISEASE

Unit-4: PHYSICAL EDUCATION AND SPORTS OR CWSN

(children with special needs)

Unit-5: SPORTS AND NUTRITION

Unit-6 TEST AND MEASUREMENTS IN SPORTS

. Fitness test - Sai khelo India fitness test in school

. Computing Basal Metabolic Rate (BMR)

Periodic 2

Unit-7: PHYSIOLOGY AND INJURIES IN SPORTS

Unit-8: BIOMECHANICS AND SPORTS

Term II/ Pre-Board

Unit-1: MANAGEMENT OF SPORTING EVENTS

Unit-2: CHILDREN AND WOMEN IN SPORTS

unit-3: YOGA AS PREVENTIVE MEASURES FOR LIFESTYLE DISEASE

Unit-4: PHYSICAL EDUCATION AND SPORTS OR CWSN

(children with special needs)

Unit-5: SPORTS AND NUTRITION

Unit-6 TEST AND MEASUREMENTS IN SPORTS

Unit-7: PHYSIOLOGY AND INJURIES IN SPORTS

Unit-8: BIOMECHANICS AND SPORTS

Unit-9: PSYCHOLOGY AND SPORTS

Unit-10: training in sports

SUBJECT - COMPUTER SCIENCE (083)

Periodic - 1

L1: PYTHON REVISION TOUR-1

L2:PYTHON REV TOUR-2

L3:WORKING WITH FUNCTION

Term- I

- L1: PYTHON REVISION TOUR-1
- L2: PYTHON REV TOUR-2
- L3: WORKING WITH FUNCTION
- L4: USING PYTHON LIBRARY
- L5: FILE HANDLING
- L6: RECURSSION
- L7: IDEA OF ALGORITHM
- L8: DATA STRUCURE-1
- L9: DATA STRUCURE-2

Periodic 2

- L10 COMPUTER NETWORK 1
- L11 COMPUTER NETWORK 2
- L12 RDBMS

Term II/ Pre-Board

- L1: PYTHON REVISION TOUR-1
- L2:PYTHON REV TOUR-2
- L3:WORKING WITHFUNCTION
- L4: USING PYTHON LIBRARY
- L5: FILE HANDLING
- L6:RECURSSION
- L7:IDEA OF ALGORITHM
- L8:DATA STRUCTURE=1
- L9:DATA STRUCTURE-2
- L10 : COMPUTER NETWORK 1
- L11 COMPUTER NETWORK 2
- L12 RDBMS
- L13 SIMPLE QUERIES IN SQL
- L14 TABLE CREATION
- L15 REGROUPING RECORDS
- L16:INTERFACE PYTHON WITH MYSQL

SUBJECT - CHEMISTRY (043)**Periodic - 1**

- Unit-1 solution
- Unit-2 electrochemistry

Term-I

Unit-1 Solution
Unit-2 Electrochemistry
Unit:3 Chemical kinetics
Unit-4 d and f block
Unit-5 Co-ordination compounds

Periodic-2

Unit-6 Haloalkanes and Haloarenes
Unit-7 Alcohol, Phenol and Ether

Term II/ Pre-Board

Unit-1 Solution
Unit-2 Electrochemistry
Unit:3 Chemical kinetics
Unit-4 d and f block
Unit-5 Co-ordination compounds
Unit-6 Haloalkanes and haloarenes
Unit-7 Alcohol,phenol and ether
Unit-8 Aldehydes, Ketones and carboxylic acid
Unit-9 Amines
Unit-10 Biomolecules

SUBJECT - PHYSICS (042)**Periodic - 1**

Unit-1 Electrostatics
Unit-2 Current Electricity

Term- I

Unit-1 Electrostatics
Unit-2 Current Electricity
Unit-3 Magnetic Effects of Current and magnetism
Unit-4 Electromagnetic induction and Alternating Currents
Unit-5 Electromagnetic waves
Unit-6 Optics

Periodic-2

Unit-7 Dual Nature of Radiation and Matter

Unit-8 Atoms and Nuclei
Unit-9 Electronic Devices

Term II/Pre-Board

Complete syllabus (Unit1 to 9)

SUBJECT - BIOLOGY (044)

Periodic - 1

UNIT- 6 Reproduction

Term- I

UNIT- 6 Reproduction

UNIT-7 Genetics and Evolution

Unit - 8 Biology and Human Welfare

Periodic 2

UNIT : 9 Biotechnology and its Applications

UNIT : 10 Ecology and Environment

Term II/ Pre-Board

Complete syllabus (Unit6 to 10)

SUBJECT - MATHEMATICS (041)

Periodic-1

1. Relations and Functions.
2. Inverse Trigonometric Functions.
3. Matrices
4. Determinants

Term-I

1. Relations and Functions.
2. Inverse Trigonometric Functions.
3. Matrices
4. Determinants.
5. Continuity and Differentiability.
6. Application of Derivatives.
- L12. Linear Programming

Periodic-2

7. Integrals
8. Application of Integrals.
9. Differential Equations.


Term II/ Pre-Board

1. Relations and Functions.
2. Inverse Trigonometric Functions.
3. Matrices
4. Determinants.
5. Continuity and Differentiability.
6. Application of Derivatives.
7. Integrals.
8. Application of Integrals
9. Differential Equations
10. Vector Algebra
11. Three Dimensional Geometry
12. Linear Programming
13. Probability



Future in the hands of Excellence

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