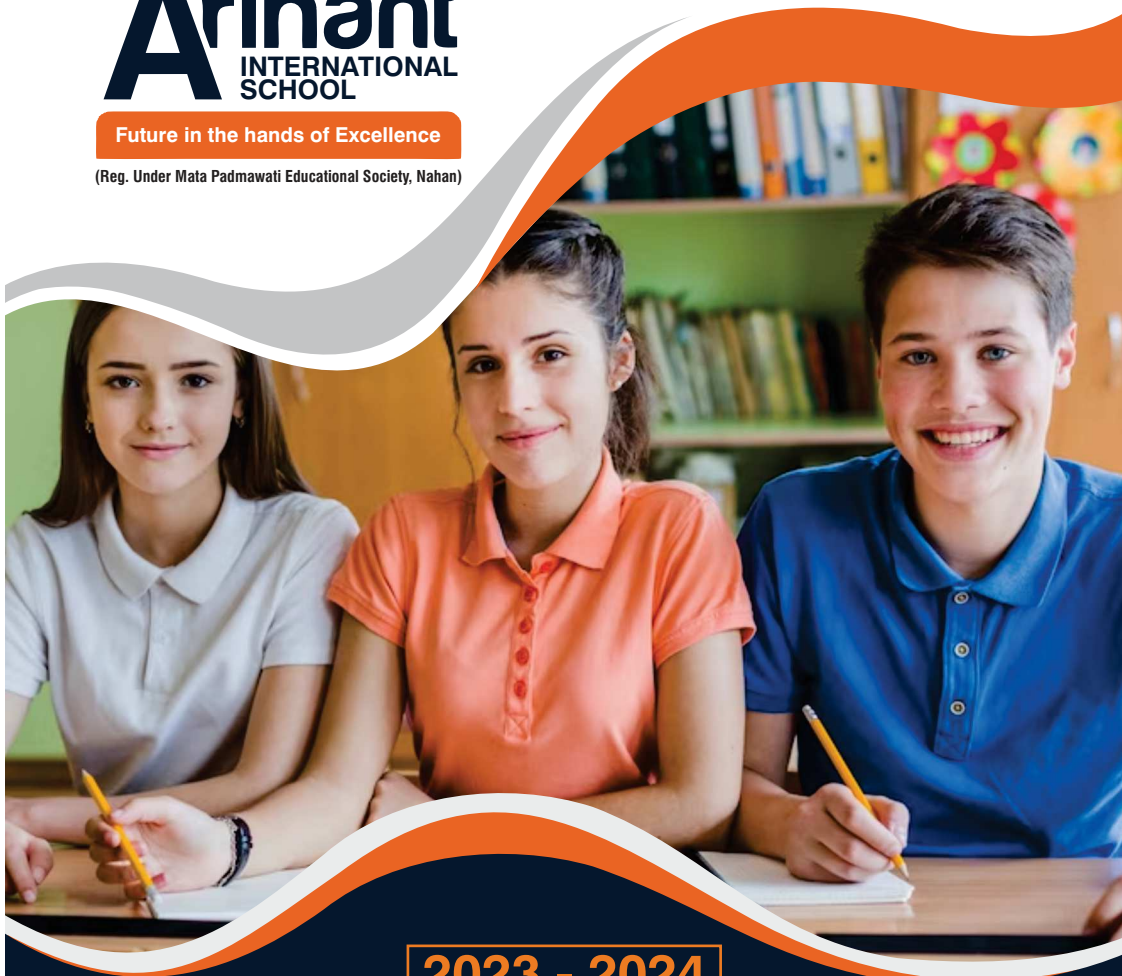




Future in the hands of Excellence

(Reg. Under Mata Padmawati Educational Society, Nahani)



2023 - 2024

SYLLABUS FOR CLASS XI

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-XI (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-1	11 Sep to 22 Sep
Periodic-2	27 Nov to 8 Dec
Term-2	1 March to 15 March

Arihant International School, Nahan
Split of Syllabus for session 2023-24
Class-XI (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 (301)

Periodic 1

Hornbill

Chapter 1 –The Portrait of a Lady

Chapter 2- We're not Afraid to die, If we're together.

Poem- A Photograph, Poem-The Laburnum Top.

Snapshot

Chapter 1-The Summer of a beautiful White Horse

Chapter 2- The Address

Wri ng

Notice writing,

Advertisement.

Grammar- Determiners,

Clauses,

Error Correction.

Term- I

Hornbill

Chapter 1 –The Portrait of a Lady,

Chapter 2- We're not Afraid to Die, If we're together

Chapter 3- Discovering Tut.

Poem- A Photograph

Poem- The Laburnum Top.

Poem- The voice of the Rain.

Snapshot

Chapter 1-The Summer of the Beautiful Horse

Chapter 2- The Address.

Chapter3- The Adventure.

Wri ng

Notice writing, Advertisement, Note-Making,

Speech Writing.

Grammar- Determiners,

Clauses,

Error correction, modals,

Change of voice.

Periodic 2**Hornbill**

Chapter –The Ailing Planet

Chapter- Silk Road

Poem- Childhood

Poem- Father to Son.

Snapshot

Chapter 3- Mother's day

Chapter 4- The Ghat of the only world

Chapter 5-Birth

Writing-

Poster Making, Advertisement.

Grammar- Re ordering of sentences, Transformation of sentences.

Term – II**(Whole syllabus)****Hornbill**

Chapters–

The Portrait of a Lady

We're not afraid to die

Discovering Tut

Ailing planet

Silk Road

The Adventure

Poems-

A Photograph

The Laburnum Top

Voice of the Rain.

Childhood

Father to Son.

Snapshot

The Summer of a Beautiful Horse

The Address

Mother' s Day

The Ghat of the only world

Birth

The Tale of a Melon city.

Writing

Notice writing .Advertisement
Note Making, Speech
Debate.
Poster making
Grammar-
Determiners
Tenses
Modals
Clauses
Change of Voice
Re-ordering of sentences
Transformation of sentences
Error - Correction

SUBJECT - MATHEMATICS (041)**Periodic 1**

1. Sets.
2. Relations and Functions.
3. Trigonometric Functions.

Term- I

1. Sets.
2. Relations and Functions.
3. Trigonometric Functions.
4. Complex Numbers and Quadratic Equations.
5. Linear Inequalities.
6. Permutations and Combinations.
7. Binomial Theorem.
8. Sequence and Series

Periodic 2

9. Straight Lines
10. Conic Sections
11. Introduction to Three-dimensional Geometry
12. Limits and Derivatives

Term – II

1. Sets.
2. Relations and Functions.
3. Trigonometric Functions.
4. Complex Numbers and Quadratic Equations.
5. Linear Inequalities.
6. Permutations and Combinations.
7. Binomial Theorem.
8. Sequence and Series
9. Straight Lines
10. Conic Sections
11. Introduction to Three-dimensional Geometry
12. Limits and Derivatives
13. Statistics
14. Probability

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

- Unit-1 Physical world & Measurement
- Unit-2 Kinematics

Term- I

- Unit-1 Physical world & Measurement
- Unit-2 Kinematics
- Unit-3 Laws of Motion
- Unit-4 Work, Energy and Power
- Unit-5 Motion of System of Particles & Rigid Body
- Unit-6 Gravitation

Periodic 2

- Unit-7 Properties of Bulk Matter
- Unit-8 Thermodynamics

Term – II

- Unit 1 to 8 and
- Unit-9 Behavior of Perfect Gas and Kinetic Theory
- Unit-10 Oscillation and Waves

SUBJECT - COMPUTER SCIENCE (083)

Periodic 1

- L1: COMPUTER SYSTEM OVERVIEW
- L2: DATA REPRESENTATION
- L3: BOOLEAN LOGIC

Term- I

- L1: COMPUTER SYSTEM OVERVIEW
- L2: DATA REPRESENTATION
- L3: BOOLEAN LOGIC
- L5: INTRODUCTION TO PROBLEM SOLVING
- L6: GETTING STARTED WITH PYTHON
- L7:PYTHON FUNDAMENTAL
- L8: DATA HANDLING
- L9: FLOW OF CONTROL

Periodic 2

- L10 : STRING MANILULATION
- L11 : LIST MANIPULATION
- L12 : TUPLES
- L13: DICT

Term – II

- L1: COMPUTER SYSTEM OVERVIEW
- L2: DATA REPRESENTATION
- L3: BOOLEAN LOGIC
- L5: INTRODUCTION TO PROBLEM SOLVING
- L6: GETTING STARTED WITH PYTHON
- L7:PYTHON FUNDAMENTAL
- L8: DATA HANDLING
- L9: FLOW OF CONTROL
- L10 : STRING MANILULATION
- L11 : LIST MANIPULATION
- L12 : TUPLES
- L13: DICT
- L15 CYBER SAFTEY
- L16 ONLINE SECURITY
- L17 SOCITEY LAW AND ETHICS

SUBJECT - CHEMISTRY (043)

Periodic 1

Unit 1- Some basic concept of chemistry

Unit 2- Structure of atom

Term- I

Unit1: Some basic concept of chemistry

Unit2: Structure of atom

Unit3: Classification of elements and periodicity in properties

Unit4: Chemical bonding and molecular structure

Unit5: Thermodynamics

Periodic 2

Unit 6: Equilibrium

Unit 7: Redox reactions

Term – II

Unit 1 Some basic concept of chemistry

Unit 2 Structure of atom

Unit 3 Classification of elements and periodicity in properties

Unit 4 Chemical bonding and molecular structure

Unit 5 Thermodynamics

Unit 6 Equilibrium

Unit 7 Redox reactions

Unit 8 Organic chemistry-Some basic principles and techniques

Unit 9 Hydrocarbon

SUBJECT - PHYSICAL EDUCATION (048)

Periodic 1

Unit 1: Changing Trends and Careers in Physical Education.

Unit 2: Olympism Value Education.

Term- I

Unit 1: Changing Trends and Careers in Physical Education.

Unit 2: Olympism Value Education.

Unit 3: Yoga.

Unit 4 : Physical Education and Sports for Children with Special Needs.

Unit 5 : Physical Fitness, Wellness, and Lifestyle.

Unit 6: Test, Measurement & Evaluation.

(a) Define Test, Measurements and Evaluation.

(b) Importance of Test, Measurements and Evaluation in Sports.

Periodic 2

Unit :6 Test, Measurement & Evaluation

(a) Calculation of BMI, Waist – Hip Ratio, Skinfold measurement (3-site).

(b) Somato Types(Endomorphy, Mesomorphy & Ectomorphy) .

(c) Measurements of health-related fitness.

Unit 7: Fundamentals of Anatomy, Physiology in Sports.

Unit 8: Fundamentals Of Kinesiology And Biomechanics in Sports

Term – II

Unit 1: Changing Trends and Careers in Physical Education.

Unit 2: Olympism Value Education.

Unit 3: Yoga.

Unit 4 : Physical Education and Sports for Children with Special Needs.

Unit 5 : Physical Fitness, Wellness, and Lifestyle.

Unit 6: Test, Measurement & Evaluation.

Unit :6 Test, Measurement & Evaluation

Unit 7: Fundamentals of Anatomy, Physiology in Sports.

Unit 8: Fundamentals Of Kinesiology And Biomechanics in Sports.

Unit 9: Psychology and Sports.

Unit 10 :Training & Doping in Sports.

SUBJECT - BIOLOGY (044)

Periodic 1

Unit-I Diversity of Living Organisms

Term- I

Unit-I Diversity of Living Organisms

Unit:2 Structural Organization in Plants and Animals

Unit: 3 Cell: Structure and Function

Periodic 2

Unit-4 Plant Physiology

Term – II


Unit: 1 to 4 and

Unit-5 Human Physiology



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