

SYLLABUS FOR THE SESSION 2011-2012
CLASS :XI

ENGLISH

- Text Books :** 1. Hornbill - Reader
2. Snapshots – Supplementary Reader

Unit Test I

Comprehension

Functional Grammar

Hornbill : Chapter 1, Poem 1

Unit Test II

Comprehension

Writing Skills

: Application for job

Snapshots

: Chapter 4 , 8

First Quarterly Examination

Hornbill

: Chapter 1, 2 , 8

Poem 1, 2, 4

Snapshots

: Chapter 1, 2, 4, 8

Note Making

Write Skills

- : i) Report writing
ii) Application for job
iii) Complaint letter
a. General
b. Of a Product
iv) Article

Functional Grammar

Half Yearly Examination

Hornbill

: Chapter 1, 2, 3, 5, 8

Poem 1 – 4

Snapshots

: Chapter 1, 2, 4, 5, 7, 8

Note Making

Writing Skills

- : i) Letter of Enquiry
ii) Placement of order
iii) Application for job
iv) Letter of Complaint
v) Report
vi) Article
vii) Speech

Functional Grammar

Annual Examination

Hornbill

: Chapter 1 – 8

Poem 1 – 5

Snapshots

: Chapter 1 – 8

Writing Skills

: Letters, Articles, Report and factual description
Speech

Functional Grammar

MATHEMATICS

Text Book : Mathematics Textbook for Class XI-NCERT

Unit Test I	:	Chapters 4 , 5 , 6
Unit Test II	:	Chapters 1 , 2 , 3
First Quarterly Examination	:	Chapters 1- 6, 7 , 8 ,9
Half Yearly Examination	:	Chapters – 1 – 11, 13
Annual Examination	:	Chapters – 1 - 16

PHYSICS

Text Books : 1. Physics, Textbook for Class XI – Part I (NCERT)
2. Physics, Textbook for Class XI – Part II (NCERT)
3. Comprehensive Practical Physics for Class XI
(Laxmi Publications (P) Ltd.)

Unit Test I
NCERT I : Chapter 1,2,3

Unit Test II
NCERT I : Chapter 4,5

First Quarterly Examination
NCERT I : Chapter 1 to 6
Practical :
(a) to measure diameter of a small spherical/cylindrical body using Vernier Callipers.
(b) To measure internal diameter and depth of a given beaker /calorimeter using Vernier Callipers and hence find its volume.
(c) To measure diameter of a given wire using screw gauge.
(d) To measure thickness of a given sheet using screw gauge.
(e) To measure volume of an irregular lamina using screw gauge.
(f) To determine radius of curvature of a given spherical surface by a spherometer.
(g) Using a simple pendulum, plot L-T and L-T² graphs. Hence find the effective length of second's pendulum using appropriate graph.
(h) To find the force constant of a helical spring by plotting a graph between load and extension.

Activities (For the purpose of demonstration only)

1. To make a paper scale of given least count, e.g.0.2cm, 0.5cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a jet of water with angle of projection.
6. To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

Half Yearly Examination

NCERT I , II

: Chapter 1 to 10

Practical

- : (a) to (h) as above in First Quarterly Examination
- (i) To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface.
 - (j) To determine Young's modulus of elasticity of the material of a given wire.
 - (k) To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
 - (l) To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
 - (m)
 - i) To study the relation between frequency and length of a given wire under constant tension using sonometer.
 - ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.

Activities (For the purpose of demonstration only)

1. To observe change of state and plot a cooling curve for molten wax.
2. To observe and explain the effect of heating on a bi-metallic strip.
3. To note the change in level of liquid in a container on heating and interpret the observations.
4. To study the effect of detergent on surface tension of water by observing capillary rise.

Annual Examination

NCERT I, II

: Full syllabus

Practical

- : (a) to (m) as above in Half Yearly Examination
- (n) To determine the surface tension of water by capillary rise method.
- (o) To find the speed of sound in air at room temperature using a resonance tube by two-resonance positions.

Activities (For the purpose of demonstration only)

1. To study the factors affecting the rate of loss of heat of a liquid.
2. To study the effect of load on depression of a suitably clamped metre scale loaded at
 - i) its end
 - ii) in the middle.

CHEMISTRY

- Text Books :** 1. Chemistry, Textbook for Class XI- Part I, II (NCERT)
2. Laboratory Manual in Chemistry for Class XI (NCERT)

Unit Test I

: Unit 1 , 2

Unit Test II

: Unit 3 , 4

First Quarterly Examination

Theory : Unit 1 to 4 , 7 , 8 , 9

Practical

- i) Volumetric Analysis
- ii) Anion Analysis
- iii) Crystallisation
- iv) Practical record and Viva voce
- v) Investigatory Project

Half Yearly Examination

Theory : Unit 1 to 4 , 7 to 9, 12 , 13

Practical

- i) First Quarterly Syllabus plus
- ii) Cation Analysis – till Group IV

Annual Examination

Theory : Complete Syllabus

Practical : Complete Syllabus

BIOLOGY(Theory)

- Text Books :** 1. Biology, Textbook for Class XI (NCERT)
2. Biology, Laboratory Manual for Class XI
(Arya Publication by S.C. Maheshwari)

Unit Test I : Chapter 1, 2 and 5

Unit Test II : Chapter 4 , 3 , 6

First Quarterly Examination

Theory : Chapter 1 to 10

Practicals : (a) Study and description of flowers
(b) Section cutting of stems and roots
(c) Stomata and Transpiration
(d) Distribution of Stomata on upper and lower surface
(e) Study / observation of Plants, Plant Modification, Animals , Plant tissue Meiosis.

Half Yearly Examination

Theory : Chapter 1 to 15

Practical / Spotting : (a) to (e) (done above)
(f) Osmosis by Potato Osmometer
(g) Study of Plasmolysis in epidermal peels.
(h) Paper Chromatography to separate chlorophyll pigment
(i) Rate of respiration in buds and peels
(j) Study / observation of Animal (Mammalian) tissues.
(k) Study of parts of compound microscope

Annual Examination

Theory : Chapter 1 to 22

Practical / Spotting : (a) to (k) (done above)
(l) Study of diversity in shape and size of cells in different plant and animal tissues.
(m) Study of mitosis in onion root tip cells
(n) Study of modifications in root, stems and leaves.
(o) Test of food stuffs
(p) Action of Salivary amylase on starch
(q) Testing of urine
(r) Study / observation of Inflorescences, Phototropism in plants, Apical bud removal, Human skeleton and Joints.
(s) Study of inflorescence.
(t) Study of imbibition.
(u) Observation and comments on few experimental setup.

ENGINEERING GRAPHICS

Text Books : 1. Engineering Graphics, Part I by V.P. Kumar
2. Engineering Graphics, Published by the CBSE

Unit Test I

Plane Geometry : Lines , angles, Ratio and Proportion
Plane figures in Solid Geometry and Solid questions of chapter no.11

Unit Test II

Plane Geometry : Triangles
Isometric scale and Isometric projection of plane figures of solids.
Solid Geometry : Method of 1st projection angle, Orthographic projections .
Questions on different solids in vertical and lying position .
Chapter no. 12 to 13.

First Quarterly Examination

Plane Geometry : Rhombus and Quadrilaterals
Polygons (regular and irregular figures)
Development of surface – Cube, Prisms
Solid Geometry : Regular solid figures such as cube, prisms , pyramids, tetrahedron
cone cylinder sphere, hemi-sphere drawn at an angle with VP or HP
frustums. Some questions of Chapter No. 14, 15 , 16.
Sectional solids mentioned above . Chapter No. 19

Practical : As prescribed by the CBSE.

Half Yearly Examination

Machine Drawing : Orthographic projections of different Machine Blocks given in the
book.
Plane Geometry : Circles , external – internal tangents, ellipse etc.

Practical : Questions , of Viva – Voce on the subject and CAD (Compnbi added
design) Project File as prescribed by the CBSE Sectional Solids
(Chapter No. 20 to 22)

Annual Examination

: Complete Syllabus

Plane Geometry : Inscribe and describe figures

Solid Geometry : Questions on sectional solids with true shape of the section and
revision chapter no. 23 and 24

Remaining questions of development of Surfaces
Complete Practical Exam (Syllabus as per given in the CBSE
Syllabus)

COMPUTER SCIENCE

Text Book :- Computer Science with C++ text book XI by Sumita Arora.

Unit Test I

Chapter 1	:	Computer Overview
Chapter 2	:	Working with Operating System (upto page 62)
Chapter 6	:	Getting started with c++

Unit Test II

Chapter 5	:	General OOPS concepts
Chapter 7	:	Data Handling
Chapter 8	:	Operators and Expressions in c++

First Quarterly Examination

		In addition to previous topics
Chapter 9	:	Flow of Control
Chapter 10	:	Standard Library Functions
Chapter 3	:	Data Representation

Half Yearly Examination

		In addition to previous topics
Chapter 11	:	User Defined Functions
Chapter 12	:	Structured data type: Array
Chapter 13	:	Structures

Annual Examination : Complete syllabus (Chapters 1 – 14)

Note : Syllabus for Practical Exams will be same as topics covered in theory for that exam.

INFORMATICS PRACTICES

Text Book :- Informatics Practices Class XI by CBSE.

Unit Test I

Chapter 1	:	Hardware Concepts
Chapter 2	:	Software Concepts and Productivity Tools
Chapter 8	:	Introduction to MySQL
Chapter 9	:	MySQL (Create, use, insert, select)
Practicals	:	My SQL

Unit Test II

Chapter 9	:	MySQL
Chapter 10	:	Functions in MySQL
Practical	:	MySQL

First Quarterly Examination

Chapter 1,2,8,9,10		
Chapter 4	:	Getting started with IDE Programming
Chapter 5	:	Programming fundamentals
Practical	:	MySQL and Basics of Netbeans

Half Yearly Examination

Chapter 1,2,4,5,8,9,10

Chapter 6 : Control structure

Practical : MySQL and Netbeans

Annual Examination

Chapter 1,2,4,5,6,8,9,10

Chapter 3 : Information security and social networking

Chapter 7 : Programming Guidelines

Chapter 11 : Sample Applications – Case studies

Practical : MySQL and Netbeans

MULTIMEDIA AND WEB TECHNOLOGY**Textbook :** Multimedia and Web Technology Class XI.**Unit Test I**

Chapter1 : Computer System

Chapter 2 : Getting Started with HTML

Chapter 3 : Formatting HTML

Chapter 4 : Creating Lists with HTML

Practicals : HTML

Unit Test II

Chapter 5 : Linking in HTML

Chapter 6 : Playing with Images and Sound

Chapter 7 : HTML Table Basics

Chapter 8 : HTML Framing

Practical : HTML

First Quarterly Examination

Chapters : 1 to 8

Chapter 9 : Adding Forms

Chapter 10 : Understanding DHTML and DOM

Chapter 11 : Cascading Style Sheets

Chapter 12 : Getting started with XML

Practical : HTML and DHTML

Half Yearly Examination

Chapters : 1 to 12

Chapter 13 : Web Scripting – An Introduction

Chapter 14 : Control Statements

Chapter 15 : Procedures and In-built Functions

Practical : Web Scripting (VBScript) and HTML

Annual Examination

Chapters	:	1 to 15
Chapter 16	:	Event Handling
Chapter 17	:	Multimedia
Chapter 18	:	Image Editing Tool
Practical	:	HTML, VBScript and Photoshop

ACCOUNTANCY

- Text Books:-**
1. Accountancy , Financial Accounting , Part- I - NCERT
 2. Accountancy , Financial Accounting, Part – II - NCERT

Unit Test I : Chapter 1,2 , 3 (upto page no. 55 Accounting Equation only)

Unit Test II : Chapter 3

First Quarterly Examination: Chapter 1 to 6

Half Yearly Examination : Chapter 1 to 6, 9 to 11

Annual Examination : Chapter 1 to 15
Unit 9 : Financial Statements of not-for-Profit Organisations
i) Not-for –profit organizations :concept.
ii) Receipts and payment account: features.
iii) Income and expenditure account: features, preparation of income and expenditure account and balance sheet from the given receipt and payment account with additional information.

BUSINESS STUDIES

Text Book : Business Studies : Text book for Class XI - NCERT

Unit Test I : Chapter 1,2 (till page No. 34)

Unit Test II : Chapter 2 , 3

First Quarterly Examination: Chapter 1 to 4 , 6

Half Yearly Examination : Chapter 1 to 7, 9

Annual Examination : Chapter 1 to 12
Project work

ECONOMICS

Text Books:- Book I : Introduction to Statistics , by NCERT .
Book II : Indian Economic Development – NCERT.

Unit Test I

Book I : Unit I and Unit II (till collection of data)

Unit Test II

Book I : Unit I and Unit II (Organisation of data)

Book II : Unit V

First Quarterly Examination

Book I : Unit I, II and III (Measure of Central Tendency).

Book II : Unit V , VI , VII (till Poverty and Rural development).

Half Yearly Examination

Book I : Unit I, II and III (till Measure of Dispersion).

Book II : Unit V , VI , VII.

Annual Examination

Book I : Unit I to IV

Book II : Unit V to VIII

PHYSICAL EDUCATION

Text Book :- Physical Education and Health by Saraswati Publication.

Unit Test I

Part A : Unit 1, Unit 2 (upto page no. 36)

Unit Test II

Part A : Unit 3, Unit 4

First Quarterly Examination

Part A : Unit 1 to 5

Part B : Unit 1

Practicals :
i) General fitness test
ii) Skill test of any chosen game or sports
iii) Any five Asanas

Half Yearly Examination

Part A : Unit 1 to 6

Part B : Unit 1, Unit 2

Practicals : As mentioned above

Annual Examination

Part A : Unit 1 to 8

Part B : Unit 1 , Unit 2

Practicals : As mentioned above.

ENVIRONMENTAL EDUCATION

Text Book :- Environmental Education for us by Arya Publishing Company

First Quarterly Examination: Chapter 1 to 8
Project (Roll No. 1 to 20) : Environment and its degradation
Project (Roll No. 21 onward): Environment and its development

Half Yearly Examination : Chapter 9 to 16
Project (Roll No. 1 to 20) : Disaster and its management.
Project (Roll No. 21 onward): Pollution and its control.

Annual Examination : Chapter 17 to 19
Project (All students) : Energy and its conservation.

Note : No formal written examination will be held. It will be evaluated on the basis of the Project work.

COMMERCIAL ART

Unit Test I

History of Indian Art :

- a) Indus Valley and Prehistoric art.
 - i) General introduction
 - ii) Study of the following seals and sculpture.
 - 1) Dancing Girl
 - 2) Male Torso
 - 3) Mother Goddess
 - 4) Bull Seal
- b) Jain and Buddhist Art
 - i) General introduction of Kushana and Maurya period.
 - ii) School of Kushana Period

Unit Test II

History of Indian Art :

- a) Jain and Buddhist Art.
 - i) Study of Art sculpture and Architecture.
 - ii) Ajanta Caves'

First Quarterly Examination

History of Indian Art :

- a) Indus Valley and Prehistoric art.
- b) Jain and Buddhist Art
- c) Ajanta Caves
- d) Introduction of South Indian Bronze

Practical :

Drawing from still life and nature Pencil, monochrome, water and pastel colours etc.

Half Yearly Examination

History of Indian Art :

- a) Indus Valley and Prehistoric art.
- b) Jain and Buddhist Art
- c) Temple sculpture and South Indian Bronzes
- d) Ajanta Caves

Practical :

Lettering and layout

Study of lettering of Gothic and Roman Designs.

Annual Examination

History of Indian Art :

- a) Indus Valley and Prehistoric art.
- b) Jain and Buddhist Art
- c) Temple sculpture and South Indian Bronzes
- d) Indo – Persian Art and Architecture

Practical :

- a) Drawing
 - i) Still Life
 - ii) Nature Study
 - b) Lettering and Layouts Posters
 - i) Devnagri scripts
 - ii) Identification of some type faces and their sizes.
 - iii) One copied work (any famous painter)
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