

CLASS XI (SCIENCE & COMMERCE)

Syllabus - Chemistry

April – 2017

I Week	: Introduction and Revision to check knowledge of Class –X
II Week	: Discuss about atoms, molecules and ions.
III Week	: Unit 1 some basic concept of chemistry
IV Week	: Unit 2 atomic structure

May – 2017

I Week	: Unit 2 atomic structure
II Week	: Revision
III Week	: Unit 3 classification of Elements and Periodicity in properties
IV Week	: Unit 3 classification of Elements and Periodicity in properties

June – 2017

Summer Vacation (1st June to 30th June - 2017)

July - 2017

I Week	: Unit 4 Chemical bonding and Molecular structure
II Week	: Pre-mid term
III Week	: Unit 5 states of Matter
IV Week	: Unit 6 Thermodynamics

August – 2017

I Week	: Unit 6 Revision and Test
II Week	: Unit 7 Equilibrium I
III Week	: Unit 7 Equilibrium II
IV Week	: Unit 8 Redox Reaction

September – 2017

I Week	: Unit 9 Hydrogen
II Week	: Revision for mid-term

III & IV Week :	Conduction of mid-term
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October – 2017

I Week :	Unit 10 S Block elements
II Week :	Unit 10 S Block elements
III Week :	Unit 11 P Block elements
IV Week :	Unit 11 P Block elements

November – 2017

I Week :	Unit 12 Introduction of organic chemistry
II Week :	Unit 12 Organic chemistry-some basic principle & Techniques
III Week :	Unit 13 Post-mid term
IV Week :	Unit 13 Hydrocarbons

December – 2017

I Week :	Unit 13 Hydrocarbons
II Week :	Unit 14 Chemistry (Half) Environmental
III Week :	Unit 14 Chemistry (Complete) Environmental
IV Week :	Unit 14 Revision

January – 2018

I Week :	Winter Break
II Week :	Revision of 1 st unit to 4 th unit
III Week :	Revision of 4 th unit to 8 th unit
IV Week :	Revision of 9 th unit to 14 th unit

February – 2018

Revision of whole syllabus and conduction of final practicals

March – 2018

Final Exam

Chemistry Practical

May – 2017

1. Basic Laboratory Techniques

- a. To cut a glass rod/tube and round off it's edges
- b. To bent a glass tube
- c. To bore a clock and fit and glass tube into it

2. Content Based Experiment

- a. To prepare crystal of copper sulphate form a given impure sample of blue vitrol
- b. To prepare crystal of potash alum from a commercial sample

3. Volumetric Analysis:

- a. To prepare a standard solution of O.IN oxalic acid solution.
- b. Determine the normality and strength of given solution of sodium hydroxide. Provided N/10 Hcl.

4. Determine the pH-values

- a. To determine the pH-value of vegetable and fruit juice and some household samples.
- b. To study the effect of change of pH value of $\text{NH}_4 \text{OH}$ by addition of $\text{NH}_4 \text{Cl}$.

5. Qualitative Analysis

Determine one cation and one anion in given salt

Cation $\text{Fe}^{3+}, \text{Mn}^{2+}, \text{Ni}^{2+}, \text{NH}_4^+, \text{Al}^{3+}, \text{Ba}^{2+}$

Anion $\text{CO}_3^{2-}, \text{I}^-, \text{Br}^-, \text{Cl}^-, \text{SO}_4^{2-}, \text{NO}_3^-$

Syllabus - Mathematics

April – 2017

I Week :	Revision as check pre-requisite knowledge about
II Week :	X Class
III Week :	Unit V complex Numbers
IV Week :	Unit I Sets (Half)

May – 2017

I Week :	Unit I Sets (Complete)
II Week :	Unit IV principle of Mathematical Induction
III Week :	Unit XII Three Dimensional Geometry
IV Week :	Unit VI Linear inequality (Half)

June – 2017

Summer Vacations (1st June to 30th June – 2017)

July – 2017

I Week :	Holiday Home-work correction, revision of pre-mid term
II Week :	Conduction of pre-mid term
III Week :	Unit VI Linear inequality (Complete) Unit XIII Limit and Derivatives (Half)
IV Week :	Unit XIII Limit and Derivatives (Complete)

August – 2017

I Week :	Unit III Trigonometry (Half)
II Week :	Unit III Trigonometry (Complete)
III Week :	Unit XV Statistics + unit XIV Mathematical Reasoning
IV Week :	Unit XVI Probability + Unit II Relations and functions (Half)

September – 2017

I Week :	Unit II Relations and function (Complete)
II Week :	Revision of Mid-Term
III & IV Week :	Conduction of Mid-Term

October – 2017

I Week	: Unit IX Sequence and series (Half)
II Week	: Unit IX Sequence and series (Complete)
III Week	: Unit VII Permutation and Combination
IV Week	: Unit VIII Binomial Theorem

November – 2017

I Week	: Unit X Straight lines (Complete)
II Week	: Revision of Post Mid-Term
III Week	: Conduction of Post Mid-Term
IV Week	: Unit XI conic sections (Half)

December – 2017

I Week	: Unit XI Conic Sections (Complete) + Revision of limits and derivatives
II Week	: Revision of unit I, II, III & IV
III Week	: Revision of unit IX & X
IV Week	: Revision of unit XI, XIII, XVI

January – 2018

Winter – Break
Revision of Full Syllabus

February – 2018

Revision of annual exam

March – 2018

Final Exam

Syllabus - Physics

April – 2017

I Week	: Unit 1 Physical world and measurement 1 (a) Introduction 1 (b) System of units
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II Week	: 1 (c) Measurement of Length, Mass & Time
III Week	: 1 (d) Dimensional analysis
IV Week	: 1 (e) Errors of measurement

May – 2017

I Week	: Unit 2 Kinematics 2 (a) Uniform motion 2 (b) Uniform accelerated motion
II Week	: 2 (c) Vectors
III Week	: 2 (d) Motion in Plane
IV Week	: Revision of 1 & 2 unit

June – 2017

Summer Vacations (1st June to 30th June – 2017)

July – 2017

I Week	: Unit 3 laws of motion + Revision of pre-mid term.
II Week	: Pre-mid term
III Week	: 3 (b) friction and Dynamics of Circular motion
IV Week	: Unit 4 work, energy and power

August – 2017

I Week	: Unit 5 System of particles and rotational motion 5 (a) Centre of mass and rotational motion
II Week	: 5 (b) Moment of inertia (Half)
III Week	: 5 (b) Moment of inertia (Complete)
IV Week	: Gravitation

September – 2017

I Week	: Unit 7 Properties of Bulk matter 7 (a) Solids
II Week	: Revision for mid-term
III & IV Week	: Conduction of mid-term

October – 2017

I & II	: 7 (b) Hydrostatics
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Week :	
III Week :	7 (c) Hydrodynamics
IV Week :	7 (d) Thermal Properties of matter

November – 2017

I Week :	7 (e) Transfer of Heat + Unit 8 Thermo dynamics (half)
II Week :	Unit 8 Thermodynamics + Revision of 7, 8 unit
III Week :	Post mid-term
IV Week :	Unit 9 Behaviour of perfect gas and kinetic theory.

December – 2017

I Week :	Unit 10 Oscillation and Waves 10 (a) Oscillations
II Week :	10 (b) Waves
III & IV Week :	Revision of Unit 1 to 5

January – 2018

Winter Break + Revision

February – 2018

Revision of whole syllabus and practicals

March – 2018

Final Exam

Physics Practical

May – 2017

1. To measure diameter of a small body using vernier callipers.

2. To measure internal diameter and depth of given calorimeter using vernier callipers and hence find it's volume.

July - 2017

3. To measure diameter of a given wire using screw guage.
4. To measure volume of irregular lamina using screw guage.
5. To determine radius of curvature of a given spherical body surface by spherometer.

August - 2017

6. To find the weight of a given body by using parallelogram law of vectors.
7. To find the force constant of a helical spring by plotting a graph between load and extension.
8. Using simple pendulum, plot L-T and L-T² graph. Hence find the effective length of second's pendulum using appropriate graph.

September - 2017

9. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and horizontal surface.

October - 2017

10. To find the downward force, along a inclined plane, acting on a roller due to gravitational pull of earth and

study its relationship with angle of inclination (θ) by plotting graph between force and $\sin \theta$.

Syllabus - Accountancy **April – 2017**

I & II Week :	Unit 1 Financial Accountancy
III & IV Week :	Unit 2 Basic Accounting terms

May – 2017

I & II Week :	Unit 3 Recording of transactions
III & IV Week :	Unit 4 Preparation of ledger

June – 2017

Summer Vacations (1st June to 30th June – 2017)

July – 2017

I Week :	Repetition of unit 1,2,3,4
II Week :	Pre-mid term
III & IV Week :	Unit 4 (Trial Balance, Depreciation)

August – 2017

I & II Week :	Depreciation Unit 5 Provision and Reserves
III & IV Week :	Accounting for Bill of Exchange

September – 2017

I & II Week :	Revision of mid-term
III & IV Week :	Mid Term Exam

October – 2017

I & II Week :	Unit 7 Rectification of Error
III & IV Week :	Unit 8 Financial Statements

November – 2017

I Week :	Unit 5 Financial Statements with adjustments
II Week :	Post Mid Term
III & IV Week :	Unit 9 Financial Statements of Not for profits organization (½)

December – 2017

I & II Week :	Unit 9 Financial Statements of Not for profits organization (½)
III & IV Week :	Unit 10 Accounts for incomplete Accounting

January – 2018

I, II, III & IV Week :	Unit 11 Computers in Accounting Revision of whole syllabus for S.A. II
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February – 2018 (Revision of Full Syllabus)

March – 2018 Annual Examination

Syllabus - Business Studies **April – 2017**

I & II Week :	Business (An Introduction)
III & IV Week :	Classification of Business Organization

May – 2017

I Week :	Business Risk – Nature and Causes
II Week :	Form of Business (Sole Trade)
III & IV Week :	Joint Hindu Family Business

June – 2017

Summer Vacations (1st June to 30th June – 2017)

July – 2017

I Week :	Repetition of Ch. 1 to 5
II Week :	Pre-mid term
III & IV Week :	Partnership organization, Cooperative Organization

August – 2017

I Week :	Choice of Form of Business Organization Private Sector & Public Sector
II Week :	Multinational Company
III Week :	Business Services + Banking
IV Week :	Insurance (Life, Fire and Marine Insurance)

September – 2017

I & II Week :	Revision for Mid Term
III & IV Week :	Mid Term Exam

October – 2017

I Week :	Postal & telecom services E-Business and outsourcing of services
II Week :	Social Responsibility of Business and Business ethics
III Week :	Sources of business finance
IV Week :	Small Business- An Introduction

November – 2017

I Week :	Internal Trade – Meaning and types Wholesale Trade – Meaning and services
II & III Week :	Post Mid Term
IV Week :	Retail Trade (meaning and types)

December – 2017

I & II Week :	International Business
III & IV Week :	Export Trade (Procedure & Documents) World Trade Organization (Meaning and Role)

January – 2018

I & II Week :	Winter Break
III & IV Week :	Revision for Annual Exam

February – 2018 **(Revision for Annual Exam)**

March – 2018 **Annual Examination**

Syllabus - Economics

April – 2017

I Week :	Introduction and revision to check knowledge of class X
II Week :	Concept of Economics & Significance of Statistics in Economics
III Week :	Collection of Data
IV Week :	Census and Sample Method of collection of Data

May – 2017

I Week	: Organization of Data
II Week	: Presentation of Data- Textual & Tabular Presentation
III Week	: Diagrammatic Presentation of Data Bar Diagrams and Pie-Diagrams
IV Week	: Arithmetic line, Graphs or Time series Graphs

June – 2017

Summer Vacations (1st June to 30th June – 2017)

July – 2017

I Week	: Measures of Central Tendency – Arithmetic Mean
II Week	: Pre-Mid Term Exam
III Week	: Median and Mode Measures of Dispersion
IV Week	: Correlation

August – 2017

I Week	: Index Numbers
II Week	: Some mathematical tools used in economics- Slope of line, slope of a curve and equation of a line
III Week	: Uses of statistical tools- Developing projects in Economics
IV Week	: Revision for mid-term

September – 2017

I & II Week	: Revision for Mid-Term
III & IV Week	: Conduction of Mid -Term

October – 2017

I Week	: Indian Economy on the Eve of Independence
II Week	: Five year plans in India- Goal and Achievements
III Week	: Features, Problems and Policies of Agriculture
IV Week	: Indian foreign Trade, Poverty

November – 2017

I Week	: Strategy of Industrial Growth (1947-1990), Economic Reforms since 1991 or New Economic Policy
II Week	: Post Mid Term Exam
III Week	: Rural Development, Human Capital formation
IV Week	: Employment and unemployment

December – 2017

I Week	: Inflation – Problems and Policies, Infrastructure
II Week	: Environment and Sustainable Development
III Week	: Development Experience of India, Pakistan and China – A Comparative Study.
IV Week	: Revision of Unit - I

January – 2018

I Week	: Winter Break
II Week	: Revision of Unit – II & III
III Week	: Revision of Unit – IV
IV Week	: Revision of Unit – V & VI

February – 2018

Revision of Whole Syllabus

March – 2018

Final Exam

Syllabus - Physical Education

Prescribed Book – Saraswati (Health & Physical Education)

April – 2017

I Week	: Basics of Phy. Edu.
II Week	: Basics of Phy. Edu.
III Week	: Unit I Concept of Phy. Edu., Definition, Need and Importance
IV Week	: Laws of Motion, Force of Friction and Projectiles

May – 2017

I Week	: Unit II Carrier aspects in Phy. Edu., Phy. Edu. as a profession
II Week	: Unit II professional ethics carrier option (Half)
III Week	: Unit II professional ethics carrier option (Complete)
IV Week	: Unit II Carrier Choices Preparation

June – 2017

Summer Vacations (1st June to 30th June – 2017)

July – 2017

I Week	: Checking of Holiday's Homework + Revision of unit I & II
II Week	: Pre Mid Term
III Week	: Unit III Health concept of Phy. Edu., Program on individual and family
IV Week	: Unit III Community Health Program, Effects of Alcohol, Tobacco and Drugs.

August – 2017

I Week	: Unit IV Olympic Movement, Ancient Olympics and Modern Olympics
II Week	: Unit IV Ideals and objective and friendship
III Week	: Unit IV Solidarity fair play and free of discrimination
IV Week	: Unit IV Olympic Symbol

September – 2017

I & II Week	: Revision for Mid Term Exam
III IV Week	: Conduction of Mid Term Exam

October – 2017

I Week	: Unit V Sociology aspects of Phy. Edu.
II Week	: Unit V Measurements in sports, Importance of Kroweber test, calculation of BMI

III Week :	Unit VI Fitness test, Heart rate and wellness
IV Week :	Unit VI Physiological aspects of Phy. Edu. , Skeltal System, Respiratory system, Circulatory system etc

November – 2017

I Week :	Unit VIII Changing trends in Phy. Edu. and sports
II Week :	Unit VIII components of Occupational health relation fitness
III Week :	Conduction of Post Mid Term
IV Week :	Unit VIII Adapted Phy. Edu. and sports for all

December – 2017

I Week :	Unit I Games and sports history
II Week :	Unit I Latest Rules
III Week :	Unit I Specification of play field and related sports, tournaments and venues
IV Week :	Unit II Skills of games and sports, warm up, sports injuries and its prevention

January – 2018

Winter Break + Pre-board Exams (Tentative)

February – 2018

Revision of Whole syllabus + Practicals

March – 2018

Annual Examinations

- Syllabus for Pre-mid - Unit I & II
- Syllabus for Mid - Unit I, II, III, & IV
- Syllabus for Post-mid - Unit V & VI
- Syllabus for Pre-board - Unit I, II, III, IV, V, VI,
VII & VIII

Syllabus - Hindustani Music Vocal

अप्रैल 2017

परिभाषा	संगीत, ध्वनि, नाद, सप्तक, श्रुति, स्वर, सितार व तानपूरा
जीवन परिचय	पं. भातखण्डे जी
गायन-वादन	अंलकार

मई 2017

परिभाषा	थाट, राग, राग की जाति, अनिबद्ध व निबद्ध गान
ताल	तीनताल, कहरवा
जीवन परिचय	तानसेन जी

जून 2017

‘श्रीष्मकालीन अवकाश’

जुलाई 2017

जीवन परिचय	पं. विष्णु दिगम्बर पलुस्कर
राग	जौन पुरी संगीत का इतिहास
	पूर्व अर्द्ध वार्षिक परीक्षा (10 जुलाई से 15 जुलाई, 2017)

अगस्त 2017

परिभाषा	घुपद, ख्याल
ताल	दादरा, एकताल
राग	राग वृंदावनी सारंग

सितम्बर 2017

स्वर लिपि पद्धति	पं. भातखण्डे जी, पं. विष्णु दिगम्बर पलुस्कर
ताल	चौताल
	अर्द्ध वार्षिक परीक्षा (15 सितम्बर से 27 सितम्बर 2017)

अक्टूबर 2017

	प्रैक्टिकल फाईल बनवानी
राग	भैरवी

नवम्बर 2017

राग	विहाग
	राग व तालों का गायन-वादन

दिसम्बर 2017

	राग व तालों का गायन-वादन
	पाठ्य क्रम के उपविषयों को दोहराना

जनवरी 2018

	राग व तालों का गायन-वादन
	पाठ्य क्रम के उपविषयों को दोहराना

फरवरी 2018

वार्षिक परीक्षा की तैयारी

मार्च 2018

वार्षिक परीक्षा

Syllabus - English Core

April	Hornbill	Ch-1 .The Portrait of a Lady
I Week :		
II Week :	Snapshots Novel	The Summer of the Beautiful White Horse.
III Week :	Reading/Writing Skills/Poem	Reading Comprehension Note-Making & Summarizing
IV Week :	Grammar	Determiners
May	Hornbill	Ch-2.We're not afraid to Die ...
I Week :		
II Week :	Snapshots Novel	Ch- 1. The Address. Introduction to the novel "The Canterville Ghost"

III Week :	Reading/Writing Skills/Poem	Notice /poster/Advertisements Poem-A Photograph
IV Week :	Grammar	Tenses and Modals
June – 2017		
Summer Vacation (1st June to 30th June - 2017)		
July I Week :	Hornbill	Ch-3. Discovering Tut.....
II Week :	Pre Mid-Term Examinations	
III Week :	Snapshots Novel	Ch-3. Ranga's Marriage. Discussion of Ch-1 & 2 of the novel
IV Week :	Reading/Writing Skills/Poem	Letter Writing: Business & Official Letters (for Making Enquiries, Registering Complaints, Asking for and giving information) P.- The Voice of the Rain.
August I Week :	Grammar	Voice and Clauses
II Week :	Hornbill	Ch-4. The Ailing Planet.
III Week :	Snapshots Novel	Ch-4. Albert Einstein at School. Ch-3 & 4 of Novel
IV Week :	Reading/Writing Skills/Poem	Report Writing Letter to the Editor P-Childhood
September I Week :	Revision for Mid-Term Examinations	
II Week :	Mid-Term Examinations	
III Week :		
IV Week :	Snapshots	Ch-5. Mother's Day.
October I Week :	Reading/Writing Skills/Poem	Application for a job Article Writing P-Father to son. Revision
II Week :	Grammar	Editing passages and Re arranging Jumbled Words and Phrases.
III Week :	Hornbill	Ch-5. The Browning Version.
IV Week :	Snapshots Novel	Ch-6. Birth. Ch-5. of the Novel
November I Week :	Reading/Writing Skills/Poem	Speech writing Factual Description

II Week :	Grammar	Error Correction
III Week :	Post Mid-Term Examinations	
IV Week :	Snapshots Novel	Ch-7. The Tale of Melon City. Ch-6. of the novel
December I Week :	Reading /Writing Skills/Poem	Process Writing Creative Writing.
II Week :	Grammar	Grammar Revision
III Week :	Snapshots Novel	Ch- 7. of the novel. Discussion of theme, Plot and Characters.
IV Week :	Reading/Writing Skills/Poem	Letter Placing Order and Sending Replies. Revision

January & February – 2018

Revision of whole syllabus

March – 2018

Final Exam

Syllabus - Biology

April – 2017

I Week :	Basic Introduction of biology Theory
II Week :	Basic Introduction of biology Practical
III Week :	The Living World
IV Week :	Biological Classification

May – 2017

I Week :	Biological Classification
II Week :	Revision
III Week :	Plant Kingdom
IV Week :	Plant Kingdom

June – 2017

Summer Vacation (1st June to 30th June - 2017)

July - 2017

I Week	: Animal Kingdom
II Week	: Pre-Mid Term
III Week	: Animal Kingdom
IV Week	: Morphology of flowering plants

August - 2017

I Week	: Anatomy of flowering plants
II Week	: Structural organisation in animals
III Week	: Morphology & anatomy of few animal types
IV Week	: Cell: The unit of life

September - 2017

I Week	: Biomolecule
II Week	: Revision for Mid-Term
III & IV Week	: Conduction of Mid-Term

October - 2017

I Week	: Transport in plant
II Week	: Mineral nutrition
III Week	: Photosynthesis
IV Week	: Respiration

November - 2017

I Week	: Plant growth & development
II Week	: Digestion and absorption
III Week	: Post Mid-Term
IV Week	: Breathing and Respiration

December - 2017

I Week	: Body fluids and circulation
II Week	: Excretory products and their elimination
III Week	: Locomotion and movement
IV Week	: Neural control and co-ordination

January - 2018

I Week	: Winter Break
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II Week :	Chemical Co-ordination and regulation
III Week :	Revision
IV Week :	Revision

February – 2018

**Revision of whole syllabus and conduction of final
practicals**

March – 2018

Final Exam