

CLASS XII (SCIENCE & COMMERCE)

Syllabus - Chemistry

April – 2017

I Week	: Introduction and Revision to check knowledge of Class –XI
II Week	: Unit 1 solid state (Half)
III Week	: Unit 1 solid state (Complete)
IV Week	: Unit 2 Solution (Half)

May – 2017

I Week	: Unit 2 Solution (Complete)
II Week	: Revision
III Week	: Unit 3 Electrochemistry (Half)
IV Week	: Unit 3 Electrochemistry (Complete)

June – 2017

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

July - 2017

I Week	: Unit 4 Chemical Kinetics
II Week	: Pre-mid term
III Week	: Unit 4 Chemical Kinetics
IV Week	: Unit 5 Surface Chemistry

August – 2017

I Week	: Unit 6 (General principle and process of isolation)
II & III Week	: Unit 7 P-block Elements
IV Week	: Unit 8 D & F-block Elements

September – 2017

I Week	: Unit 8 D & F-block Elements
II Week	: Revision for mid-term
III & IV Week	: Conduction of mid-term

October – 2017

I Week :	Unit 9 Co-ordination compounds
II Week :	Unit 10 Haloalkanes and Haloarenes
III & IV Week :	Unit 11 Alcohols, Phenols and ethers

November – 2017

I Week :	Unit 12 Aldehyde, ketones and carboxylic acid
II Week :	Unit 13 Organic compound containing nitrogen
III & IV Week :	Unit 14 Biomolecules

December – 2017

I Week :	Unit 15 Polymer
II Week :	Unit 16 Chemistry in everyday life
III & IV Week :	Revision of Pre-board exams

January – 2018

Winter Break

Pre-board exam (Tentative)

February – 2018

Revision of whole syllabus and final practicals

March – 2018

Final Exam

Chemistry Practical

May – 2017

1. Content Based Experiment

- a. To prepare a pure sample of ferrous ammonium sulphate
- b. To prepare crystal of potash alum

July – 2017

2. Volumetric analysis

- a. Prepare 250 ml of M/10 oxalic acid solution
- b. To prepare 250 ml of N/10 Mohr's salt
- c. To prepare N/10 KMnO_4 solution and stander size it against N/10 oxalic acid

August – 2017

3. Test for the functional group present in organic compounds:

- a. Alcoholic group
- b. Test for amine (I^0 group)
- c. Test for aldehyde & ketones
- d. Test for phenolic group

October – 2017

4. Prepare of organic compound

- a. Acetanilide
- b. Iodoform

November – 2017

5. Determine one cation and one anion in a given salt

Cation $\text{Pb}^{2+}, \text{As}^{3+}, \text{Al}^{3+}, \text{Fe}^{3+}, \text{Co}^{2+}, \text{NH}_4^+, \text{Ba}^{2+}$

Anion $\text{CO}_3^{2-}, \text{SO}_4^{2-}, \text{Cl}^-, \text{Br}^-, \text{I}^-, \text{CH}_3\text{COO}^-, \text{C}_2\text{O}_4^{2-}$

Syllabus - Mathematics

April – 2017

I Week	:	Revision as check pre-requisite knowledge about Class XI
II Week	:	Unit I Relations and functions (Half)
III Week	:	Unit I Relations and functions (Complete)

IV Week :	Unit II Inverse Trigonometry Functions + Unit III Matrices
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May – 2017

I Week :	Unit IV Determinants
II Week :	Unit V Matrices (continued) (Half)
III Week :	Unit V Matrices (Complete)
IV Week :	Unit VI Continuity and Differentiability

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 VII Differentiation
IV Week :	Unit VIII Application of derivative

August – 2017

I Week :	Unit IX Integrals (Half)
II Week :	Unit IX Integrals (Complete)
III Week :	Unit X Application of integrals (Half)
IV Week :	Unit X Application of integrals (Complete) Unit XIV Linear Programming Problem

September – 2017

I & II Week :	Revision of mid-term
III & IV Week :	Conduction of mid-term

October – 2017

I Week :	Unit XI Differential Equations (Half)
II Week :	Unit XI Differential Equations (Complete)
III Week :	Unit XII Vectors (Half)
IV Week :	Unit XII Vectors (Complete)

November – 2017

I Week :	Unit XIII Three Dimensional Geometry
II Week :	Revision of Post-Mid Term
III Week :	Conduction of Post-Mid Term
IV Week :	Unit XV Probability (Complete)

December – 2017

Revision for Examination

January – 2018

I Week :	Winter Vacation
II Week :	Pre-board exam
III & IV Week :	Revision for board exam

February – 2018

Revision for board exam

March – 2018

Board Examination

Syllabus - Physics

April – 2017

I Week :	Unit 1 Electrostatics Ch. 1 (a) Electrostatics charges
II Week :	Ch. 1 (b) Electric Field
III Week :	Ch. 1 (c) Electrostatic Potential
IV Week :	Ch. 1 (d) Capacitance

May – 2017

I Week :	Unit 2 Current Electricity Ch. 2 (a) Electric current and resistance
II Week :	Ch. 2 (b) Electric Measurement Ch. 2 (c) Heating effects of current

III Week :	Revision of unit 1, 2
IV Week :	Unit 3 Magnetic effect of current and magnetism Ch.- 3 (a) Magnetic field due to current Ch.- 3 (b) Force on charged particle

June – 2017

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

July – 2017

I Week :	Revision of Pre-Mid Term
II Week :	Pre-Mid Term Exam
III Week :	Ch. 3 (c) Magnets and Earth's magnetism Ch. 3 (d) classification of magnetic material
IV Week :	Unit 4 Electromagnetic Induction and Alternating Current Ch. 4 (a) Electromagnetic Induction Ch. 4 (b) Alternating Current

August – 2017

I Week :	Ch. 4 (c) Electrical Devices Unit 5 Electromagnetic waves
II Week :	Unit 6 Optics Ch. 6 (a) Reflection of Light Ch. 6 (b) Refraction of Light
III Week :	Ch. 6 (c) Dispersion of Light Ch. 6 (d) Optical instruments
IV Week :	Ch. 6 (e) Huygens's principle and interference

September – 2017

I Week :	Ch. 6 (f) Diffraction and Polarization
II Week :	Unit 7 Dual Nature of Matter and Radiation
III & IV Week :	Revision + Conduction of mid-term exam

October – 2017

I Week :	Unit 8 Atoms and Nuclei Ch. 8 (a) Atoms
II Week :	Ch. 8 (b) Nuclei

III Week :	Unit 9 Electronic devices Ch. 9 (a) Conductor, insulators and semi-conductors
IV Week :	Ch. 9 (b) Semi-conductor devices Ch. 9 (c) Logic Gates

November – 2017

I Week :	Unit 10 Communication System Ch. 10 (a) Analog and digital communication
II Week :	Ch. 10 (b) Space Communication
III Week :	Post-Mid Term
IV Week :	Revision of unit 1, 2, 3

December – 2017

I Week :	Revision of unit 4, 5
II Week :	Revision of unit 6, 7
III Week :	Revision of unit 8, 9
IV Week :	Revision of unit 9, 10

January – 2018

Winter Break + Pre-Board Exam

February – 2018

Revision of whole syllabus and practicals

March – 2018

Final Exam

Physics Practical

May – 2017

1. To find the resistance per cm. of a given wire by plotting a graph of potential difference vs. current.
2. To find the resistance of a given wire using meter bridge and determine the resistivity of its material

July - 2017

3. To Verify the laws of combination (series/parallel) of a resistances using a meter bridge.
4. To compare the E.M.F. of two primary cells using potentiometer.
5. To determine the internal resistance of a given primary cell using potentiometer.

August - 2017

6. To determine the resistance of a galvanometer by half deflection method and to find figure of merit.
7. To convert a galvanometer into a voltmeter.
8. To find the focal length of a convex lens by plotting graphs between u and v .

September - 2017

9. To find the focal length of a concave lens using a convex lens.

October - 2017

10. To find the focal length of a concave mirror.
11. To find the focal length of a convex mirror using convex lens.
12. To find the refractive index of water using concave mirror.

November – 2017

13. To determine the angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
14. To study the I – V characteristics curve of P-N junction in forward bias.
15. To study the I – V characteristics curve of P-N junction in reverse bias.

Syllabus - Accountancy **April – 2017**

I to IV Week :	Unit 1 (Accounting for Partnership)
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May – 2017

I Week :	Unit 2 Change in profit sharing ratio among the existing partners
III & IV Week :	Unit 3 Admission of Partner

June – 2017

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

July – 2017

I Week :	Revision of Unit 1 to 3
II Week :	Pre-Mid Term (10/07/17 to 15/07/2017)
III & IV Week :	Retirement or Death of a partner

August – 2017

I & II Week :	Unit 5 Dissolution of partnership firm
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III & IV Week :	Unit 6 Company issue of shares
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September – 2017

I & II Week :	Unit 6 Issue of Debenture, Redemption of Debenture
III & IV Week :	Mid Term Exam

October – 2017

I & II Week :	Part II (Ch. - 1,2) Financial statement of companies
III & IV Week :	Ch. 3,4,5 Comparative statement common size statement, Accounting Ratio (½)

November – 2017

I Week :	Ch. 5 Accounting Ratio (½)
II Week :	Post Mid Term
III & IV Week :	Cash Flow Statement

December – 2017

Revision for Pre-board Exam

January – 2018

I Week :	Winter Vacation
II Week :	Pre-board Exam
III & IV Week :	Revision for board practical

February – 2018

(Revision of Full Syllabus)

March – 2018

Annual Examination

Syllabus - Business Studies

April – 2017

I Week	: Ch. 1 Nature and significance of Mgt.
II Week	: Ch. 2 Mgt. is science and Art
III Week	: Ch. 3 Level of Management
IV Week	: Ch. 4 Co-ordination

May – 2017

I Week	: Ch. 5 Principal of Management
II Week	: Ch. 6 Scientific Management
III Week	: Ch. 7 Business Environment
IV Week	: Ch. 8 Planning

June – 2017

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

July – 2017

I Week	: Revision of Pre-Mid Term
II Week	: Pre-Mid Term
III Week	: Ch. 9 Organisation
IV Week	: Ch. 10 Organisation structure

August – 2017

I Week	: Ch. 12 Staffing
II Week	: Ch. 13, 14 Recruitment, Selection
III Week	: Ch. 15, 16 Directing, Supervision
IV Week	: Ch. 17, 18, 19 Motivation, Leadership Ch. 20 Communication

September – 2017

I Week	: Ch. 21 Controlling
II Week	: Mid Term Exam

October – 2017

I Week	: Part II Ch. 22 Financial Management
II Week	: Ch. 23, 24 Capital Structure fixed and working capital

III & IV Week :	Ch. 25, 26 Financial market, Stock exchange
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November – 2017

I Week :	Ch. 27 Marketing and marketing mix
II Week :	Post-Mid Term
III & IV Week :	Ch. 30,31 Sales promotion of public relations consumer protection (importance & ways)

December – 2017

I & II Week :	Revision for Pre-board Exam
III & IV Week :	Revision of whole syllabus

January – 2018

I & II Week :	Pre-board Exam
III & IV Week :	Revision of whole syllabus

February – 2018
(Revision for Board Exam)

March – 2018
Board Examination

Syllabus - Economics

April – 2017

I Week :	Economics, Economy and central problems of an economy
II Week :	Consumer's equilibrium (Utility Approach)
III Week :	Consumer's Equilibrium and indifference curve analysis
IV Week :	Theory of demand & price elasticity of demand

May – 2017

I Week :	Production function and Returns to a factor
II Week :	Concept of costs
III Week :	Concept of Revenue, Producer's Equilibrium
IV Week :	Theory of supply forms of market

June – 2017

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

July – 2017

I Week :	Revision for Pre-Mid Term
II Week :	Pre-Mid Term Exam
III & IV Week :	Market Equilibrium under perfect competition and effects of shifts in demand & supply

August – 2017

I Week :	Some Basic concept of macro economics
II Week :	National Income and related Aggregates
III Week :	Methods of calculating National Income
IV Week :	Money and supply of money

September – 2017

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

October – 2017

I Week :	Banking commercial Bank and the central Bank
II Week :	Aggregate demand and its components
III Week :	Short run equilibrium output
IV Week :	Problem of deficient demand and excess demand, govt. budget and the economy

November – 2017

I Week :	Foreign exchange rate, balance of payments
II Week :	Revision of Post-Mid Term

III Week :	Post-Mid Term (15/11/2017 to 21/11/2017)
IV Week :	Revision of full syllabus

December – 2017

Revision of full syllabus for Pre-board Exams

January – 2018

I & II Week :	Winter Break (Tentative)
III & IV Week :	Pre-board Exams

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. , Skeletal 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	अलंकार, वर्ण, कण, मींड, खटका मुर्की, सितार व तानपूरा
जीवन परिचय	उस्ताद बड़े गुलाम अली खाँ
गायन-वादन	अलंकार

मई 2017

परिभाषा	गमक, ग्राम, मूर्च्छना, लय व ताल
ताल	एक ताल, झपताल
जीवन परिचय	उस्ताद फयाज खाँ

जून 2017

‘ब्रीष्मकालीन अवकाश’

जुलाई 2017

जीवन परिचय	राग वर्गीकरण, रागों का समय सिद्धांत
राग	भैरव
	पूर्व अर्द्ध वार्षिक परीक्षा (10 जुलाई से 15 जुलाई, 2017)

अगस्त 2017

परिभाषा	संगीत रत्नाकर, संगीत पारिजात
ताल	रूपक, तिलवाडा

सितम्बर 2017

जीवन परिचय	पं. कृष्ण राव शंकर, उस्ताद अबदुल करीम खाँ
ताल	घमार
राग	भीमप्लासी
	अर्द्ध वार्षिक परीक्षा (15 सितम्बर से 27 सितम्बर 2017)

अक्टूबर 2017

	प्राैक्टिकल फाईल बनवानी
परिभाषा	तान, आलाप, स्वर लिपि पद्धति

नवम्बर 2017

राग	बागेश्री
	राग व तालों का गायन-वादन

उत्तर अर्द्ध वार्षिक परीक्षा
15 नवम्बर से 21 नवम्बर 2017

दिसम्बर 2017

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

जनवरी 2018

पाठ्य क्रम के उपविषयों को दोहराना
वार्षिक परीक्षा की तैयारी

फरवरी 2018

वार्षिक परीक्षा की तैयारी

मार्च 2018

वार्षिक परीक्षा

Syllabus - English Core

April I Week :	Flamingo	L-1.The Last Lesson
II Week :	Vistas	L-1. The Tiger King
III Week :	Novel & Poetry	Introduction to the novel (The Invisible Man) P-1.My Mother at Sixty- Six
IV Week :	Reading and Writing Skills	Poster Designing. (Social issues , general awareness, commercial issues) Letter to Editor, Article writing
May I Week :	Flamingo	L-2. Lost Spring
II Week :	Vistas	L-2. The Enemy.
III Week :	Novel & Poetry	Thorough Discussion of chapters 1-4 P-2. An Elementary School Classroom In A Slum
IV Week :	Reading and Writing Skills	Recapitulation of Note- Making and summarizing
June – 2017		
Summer Vacation (1st June to 30th June - 2017)		

July I Week :	Flamingo	L-3. Deep Water
II Week :	Pre Mid-Term Examinations	
III Week :	Novel & Poetry	Thorough Discussion of chapters 5,6 P-3. Keeping Quiet
IV Week :	Reading and Writing Skills	Advertisement (classified & display-To-Let, for sale, Matrimonial, Situation Vacant, etc)
August I Week :	Flamingo	L-4. The Rattrap
II Week :	Vistas	L-3. Should Wizard Hit Mommy?
III Week :	Novel & Poetry	Discussion of chapters 7to 12 of the novel P-4. A Thing of Beauty
IV Week :	Reading and Writing Skills	Speech Writing Debate Writing Notice Writing
September I Week :	Revision for Mid-Term Examinations	
II Week :	Mid-Term Examinations	
III Week :		
IV Week :	Vistas	L-4. On The Face Of It.
October I Week :	Novel & Poetry	Discussion Of Chapters 13to18 P-5. Aunt Jennifer's Tigers
II Week :	Reading and Writing Skills	Invitation Writing - Formal & Informal & Replies (acceptance & Decline) Reading comprehension
III Week :	Flamingo	L-5. Indigo
IV Week :	Vistas	L-5. Evans Tries An O-Level.
November I Week :	Novel & Poetry	Discussion Of Chapters 19 to 24
II Week :	Reading and Writing Skills	Letter Of Complaint Letter of Placing Orders & Cancellation
III Week :	Post Mid-Term Examinations	
IV Week :	Flamingo	L-6.Going Places.
December I Week :	Vistas	L-6. Memories of Childhood
II Week :	Novel & Poetry	Discussion of Chapters 25 to 28

III Week :	Reading and Writing Skills	Letter of Enquiry Job Application
IV Week :	Flamingo	Revision

January & February – 2018

Revision of whole syllabus

March – 2018

Final Exam

Syllabus - Biology

April – 2017

I Week :	Reproduction in Organisms
II Week :	Reproduction in Organisms
III Week :	Sexual Reproduction in flowering plants
IV Week :	Sexual Reproduction in flowering plants

May – 2017

I Week :	Human Reproduction
II Week :	Revision
III Week :	Human Reproduction
IV Week :	Reproductive Health

June – 2017

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

July - 2017

I Week :	Principles of Inheritance and Variation
II Week :	Pre Mid-Term
III Week :	Molecular basis of Inheritance
IV Week :	Molecular basis of Inheritance

August – 2017

I Week :	Molecular basis of Inheritance
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II Week :	Evolution
III Week :	Evolution
IV Week :	Human Health and Disease

September – 2017

I Week :	Human Health and Disease
II Week :	Strategies for enhancement in food production
III & IV Week :	Mid-Term

October – 2017

I Week :	Strategies for enhancement in food production
II Week :	Microbes in human welfare
III Week :	Biotechnology-Principles and processes
IV Week :	Biotechnology-Principles and processes

November – 2017

I Week :	Biotechnology and its application
II Week :	Organism and population
III Week :	Post Mid-Term
IV Week :	Organism and population

December – 2017

I Week :	Organism and population
II Week :	Biodiversity and its conservation
III Week :	Biodiversity and its conservation
IV Week :	Environment Issues

January – 2018

Winter Break

Pre-board exam (Tentative)

February – 2018

Revision of whole syllabus and conduction of final practicals

March – 2018

Final Exam