

ECONOMICS SYLLABUS

CLASS XII

2017-18

SEMESTER I

DATE**TOPICS**

APRIL 1 – APRIL 15

MICRO ECONOMICS -INTRODUCTION

MACRO ECONOMICS -TWO SECTOR MODEL

BASIC CONCEPTS IN NIA

APRIL 15 – APRIL 30

MACRO – NIA – PRODUCTION METHOD AND INCOME METHOD

MAY 1 – MAY 19

MACRO – NIA - EXPENDITURE METHOD AND ITS NUMERICALS

GOVERNMENT BUDGET

FIRST TERMINAL SYLLABUS OF ACCOUNTANCY FOR CLASS 12-C

1-15 April	Meaning of Financial Analysis, Comparative and Common Size Statements
16 April -30 April	Ratio Analysis, Cash Flow Statements(Operating Activity)
1 May -18 May	Cash Flow Statements(Investing Activity, Financing Activity), Presentation of Financial statements as per Companies Act 2013,Fundamentals of Partnership, Goodwill Valuation
3 July-15 July	Admission of Partner
16 July-31 July	Retirement of a partner
1 Aug-15 Aug	Death of a partner and Change in Profit Sharing Ratio
16 Aug-4 Sept	Dissolution of a Partnership (Introduction)

BUSINESS STUDIES SYALLABUS**SEMESTER I**

1April -15 April 2017	Nature and significance of management
16April-30 April 2017	Principles of Management
1 May-12 May 2017	Business Environment
15 May-19 May 2017	Financial Management &Project Discussion
3 July- 15 July 2017	Financial Markets
16 July -14 Aug. 2017	Marketing Management
16 August-31 August 2017	Consumer Protection &Project Discussion
1 Sept-10 Sept 2017	Revision

CLASS XII (SUBJECT- COMPUTER SCIENCE)**SEM 1****Unit 1-** Object Oriented Programming in C++ (Complete)**Unit 3-** Databases and SQL(Complete)**Unit 4-** Boolean Algebra(Complete)

PHYSICAL EDUCATION / CLASS XII A,B AND C / 2017

UNIT 1 PLANNING IN SPORTS

- Meaning and Objectives of Planning .
- Various committees and its responsibilities.(pre during and post)
- Tournaments –Knock outs ,League or Round Robin and Combination.
- Procedure to draw fixtures---Knock out (Bye and seeding) and League (staircase and cyclic)
- Intramurals and Extramurals—Meaning and objectives and its significance
- Specific sports programmes (sports day , health run , Run for Fun , Run for specific cause and Run for Unity)

UNIT 2 SPORTS NUTRITION

- Balanced diet and Nutrition ---Macro and Micro nutrients
- Nutritive and Non- Nutritive components of diet
- Eating for weight control- A healthy weight , the pitfalls of dieting , Food intolerance and Food myths)
- Sports Nutrition and its effects on performance (fluid and meal intake , pre, during ,and post competition)
- Food supplements for children

UNIT 3 YOGA AND LIFESTYLE

- Asanas as preventive measures
- Obesity : Procedures , benefits and Contraindications for Vajrasana .Hastasana ,Trikonasana ,Ardh Matsyendrasana.
- Diabetes: Procedures , benefits . contraindications for Bhujangasana, Paschimottasana , Pavan muktasana ,Ardh matsyendrasana.
- Asthma: Procedures , benefits and contraindications for Sukhasana , Chakrasana, Gomukhasana , Parvatasana ,Bhujangasana , Paschimottasana ,Matsyasana.
- Hypertension: Tadasana , Vajrasana , Pavan muktasana , Ardh chakrasana ,Bhujangasana ,Sharasana
- Back Pain : : Tadasana , Ardh matsyendrasana , Vakrasana , Shalabhasana ,Bhujangasana.

UNIT 4 PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY –ABLED

- Concept of Disability and Disorder
- Types of Disability , its causes and nature (cognitive disability , intellectual disability , physical disability)
- Types of Disorder , its cause and nature (ADHD ,SPD, ASD , ODD ,OCD)
- Disability Etiquettes
- Advantage of physical Activities assessable for children with special need.
- Strategies to make physical activities assessable for children with special need.

UNIT 5 CHILDREN AND SPORTS

- Motor development and factors affecting it.
- Exercise Guidelines at different stages of growth and development.
- Advantages and disadvantages of weight training.
- Concept and advantages of correct posture
- Causes of Bad postures
- Common postural deformities—Knock Knee , Flat foot , Round shoulders , Lordosis , Kyphosis Scolioses , Bow legs .

- Corrective measures for postural deformities.

UNIT 6 WOMEN AND SPORTS

- Sports participation of women in India.
- Special consideration (Menarch and Menstrual disfunction)
- Female Athlete Triad (Osteoporosis , Amenorrhea , Eating disorders)
- Psychological aspects of women athlete
- Sociological aspect of sports participation.

ENGLISH SYLLABUS

Term I

1-15th April

Keeping Quiet

Going Places

16-30th April

Report writing

-Factual report

-Newspaper report

1-12th May

Long writing skills

-Speech

-Debate

Article writing - Revision

1-15th July

Notice +Poster (revision)

Reading comprehension

Deep Water

Mother at Sixty six

16-31st July

Should wizard hit mommy

The Tiger king

Short writing skills:

-Advertisements

-Invitation(formal and informal)

1-14th August

Lost spring

Elementary classroom in a slum

Letter of enquiry and complaint

16-31st August

Invisible Man (chp. 1 to 12)

Letter of order and to the editor

1-10th September

Notemaking

Reading comprehension

Literature + Invisible Man revision

SOCIOLOGY SYLLABUS

1st April - 15th April	Book 1 Ch. 1 - Introducing Indian Society Book 1 Ch.2 - Demographic Structure & Indian Society	Intro First half Individual Research files discussions
16th April - 30th April	Book 1 Ch.2 - Demographic Structure & Indian Society Book 1 Ch.3 - Social Institutions- Continuity & Change	Complete First half Individual Research files discussions
1st May - 18th May	Book 1 Ch. 3 - Social Institutions - Continuity & Change Book 1 Ch. 4- Market as a Social Insritution	Complete Complete Individual Research files discussions
3rd July - 15th July	Book 1 Ch.5 - Patterns of Social Inequality & Exclusion	Complete Individual Research files discussions
15th July - 31st July	Book 1 Ch.6- Patterns of Cultural Diversity	Complete Individual Research files discussions
1st Aug - 15th Aug	Book 2 Ch.1- Structural Change	Complete Individual Research files discussions
15th Aug - 4th Sept	Book 2 Ch.2 - Cultural Change	Complete Individual Research files discussions

Class – XII / Chemistry Syllabus / 2017 -18

Date	Theory	Practical
1-15 April	Unit-10 : Haloalkanes and Haloarenes Unit - 16 : Chemistry in everyday life	Functional gp analysis
16-30 April	Unit-11 : Alcohols, Phenols and ethers Unit-15 : Polymers	Food tests, Sol preparation
1-15 May	Unit-12 : Aldehydes, Ketones and Carboxylic acids	Food test, Chromatography
16-20 May	Unit-13 : Organic Compounds containing Nitrogen	
1-15 July	Unit-6 : General Principles- Isolation and Extraction of Metals	Double salt preparation, KMnO ₄ – Mohr's salt titration
16-31 July	Unit-7 : The p-block elements	Salt analysis, DBA preparation
1-15 Aug	Unit-2 : Solutions	Revision of salts
16-30 Aug	Unit-4 : Chemical Kinetics	Revision of titration and core experiments

Holiday Homework – Prepare a rough copy of project report

Physical Education / Class XII D / 2017-18

Unit I : Planning in Sports

- Meaning & objectives of planning
- Various committees & its responsibilities
- Tournament – Knock out, league or Round Robin & combination.
- Procedures to draw fixtures – Knock out (bye and seeding) & league (staircase and cyclic)
- Intramurals and Extramural – Meaning, objectives and its significance.
- Specific sports programme (Sports day, Health Run, Run for fun, Run for specific cause & run for Unity)

Unit II : Sports and Nutrition

- Balanced diet & Nutrition: Macro & Micro Nutrients.
- Nutritive and Non-nutritive components of diet.
- Eating Disorders- Anorexia Nervosa & Bulimia
- Effects of diet on performance.
- Eating for weight control – A healthy weight, the pitfalls of dieting, Food Intolerance and Food myths.
- Sports Nutrition (fluid & meal intake pre, during and post competition.)

UNIT III : YOGA AND LIFESTYLE

- Asanas as preventive measures
- Obesity : Procedures , benefits and Contraindications for Vajrasana ,Hastasana ,Trikonasana ,Ardh Matsyendrasana.
- Diabetes: Procedures , benefits . contraindications for Bhujangasana, Paschimottasana , Pavan muktasana ,Ardh matsyendrasana
- Asthma: Procedures , benefits and contraindications for Sukhasana , Chakrasana, Gomukhasana , Parvatasana ,Bhujangasana , Paschimottasana ,Matsyasana.
- Hypertension: Tadasana, Vajrasana , Pavan muktasana , Ardh chakrasana , Bhujangasana Sharasana
- Back Pain : : Tadasana , Ardh matsyendrasana , Vakrasana , Shalabhasana ,Bhujangasana.

UNIT IV : PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY –ABLED

- Concept of Disability and Disorder
- Types of Disability , its causes and nature (cognitive disability , intellectual disability , physical disability)
- Types of Disorder , its cause and nature (ADHD ,SPD, ASD , ODD ,OCD)
- Disability Etiquettes
- Advantage of physical Activities assessable for children with special need.
- Strategies to make physical activities assessable for children with special need.

UNIT V : CHILDREN AND SPORTS

- Motor development and factors affecting it.
- Exercise Guidelines at different stages of growth and development
- Advantages and disadvantages of weight training.
- Concept and advantages of correct posture
- Causes of Bad postures
- Common postural deformities—Knock Knee , Flat foot , Round shoulders, Lordosis, Kyphosis Scolioses, Bow legs
- Corrective measures for postural deformities.

Unit VI : Women and Sports

- Sports participation of Women in India
- Special consideration (Menarch , Menstrual Disfunction, Pregnancy, Menopause)
- Female Athlete Triad (Anaemia, Osteoporosis & Amenoria)
- Psychological aspects of Women athlete.
- Sociological Aspects of sports participation
- Ideology

HISTORY SYLLABUS/ CLASS 12/ 2017-18

1 ST APRIL -15 TH APRIL	-	CH 1 BRICK, BEADS AND BONES CH 2 KINGS, FARMERS AND TOWNS
15 TH APRIL- 30 TH APRIL	-	CH 3 KINSHIP, CASTE AND CLASS CH 4 THINKERS, BELIEFS AND BUILDINGS
1 ST MAY TO 12 TH MAY		CH 5 THROUGH THE EYES OF TRAVELLERS
3 RD JULY – 20 TH JULY		CH 6 BHAKTI AND SUFI TRADITIONS CH 7 AN IMPERIAL CAPITAL VIJAYNAGARA
20 TH JULY- 5 TH AUG		CH 7- VIJAYNAGARA (CONTD) CH8 PEASANTS, ZAMINDARS AND STATE
5 TH AUG- 20 TH AUG		CH 9 KINGS AND CHRONICLES CH 10 COLONIALISM AND COUNTRYSIDE
20 TH AUG – 1 ST SEPT		CH 11 REBELS AND THE RAJ

CLASS XII-PHYSICS 2017-18

01 APRIL'17-15 APRIL'17

Syllabus introduction and marks wise breakup.

Unit I: Electrostatics

Chapter-1: Electric Charges and Fields

Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.

16 APRIL-30 APRIL'17

Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.

Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).

Chapter-2: Electrostatic Potential and Capacitance

Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.

1 MAY-19 MAY'17

Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.

Unit II: Current Electricity

Chapter-3: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance.

Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge.

Potentiometer - principle and its applications to measure potential difference and for comparing emf of two cells; measurement of internal resistance of a cell.

1 JULY-15 JULY'17

Unit III: Magnetic Effects of Current and Magnetism

Chapter-4: Moving Charges and Magnetism

Concept of magnetic field, Oersted's experiment.

Biot - Savart law and its application to current carrying circular loop.

Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids, Force on a moving charge in uniform magnetic and electric fields. Cyclotron.

Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.

16 JULY-31 JULY'17

Chapter-5: Magnetism and Matter

Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements.

Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths. Permanent magnets.

Unit IV: Electromagnetic Induction and Alternating Currents

Chapter-6: Electromagnetic Induction

Electromagnetic induction; Faraday's laws, induced emf and current; Lenz's Law, Eddy currents.

Self and mutual induction.

1 AUGUST-15 AUGUST'17

Chapter-7: Alternating Current

Alternating currents, peak and rms value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, wattless current.

AC generator and transformer.

Unit V: Electromagnetic waves

Chapter-8: Electromagnetic Waves

Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative ideas only).

Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

16 AUGUST-30 AUGUST'17

Unit VI: Optics

Chapter-9: Ray Optics and Optical Instruments

Ray Optics:: Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula. Magnification, power of a lens, combination of thin lenses in contact combination of a lens and a mirror. Refraction and dispersion of light through a prism.

REVISION FOR SEMESTER I

HOME SCIENCE/CLASS 12/1st TERM SYLLABUS (15 Day BREAKUP)

1 st - 30 th April	Unit 2- Nutrition for self, family and community
1 st - 12 th May	Unit 2 - Nutrition for self, family and community + Practical (cont.)
3 rd July - 18 th July	Unit 3 - Money Management and Consumer Education+ Practical
19 th July - 2 nd August	Unit 3 - Money Management and Consumer Education+ Practical (cont.)
3 rd August - 18 th August	Unit 6 - Career Options after Home Science + Practicals
19 th August - 31 st August	Unit 5 - Income generating schemes+ Practical (cont.)
September	Practical exam + Revision

FIRST TERMINAL SYLLABUS OF MATHS FOR CLASS 12	
1-15 April	Chapter 5 started Continuity Differentiability Introduction to Exponential, Logarithmic and inverse trigonometric function (graph, domain, range and their derivatives)
16 April -30 April	Chapter 5 continued Differentiation Rules Stress on chain rule for composition of functions which explicit Differentiation of implicit functions. Differentiation using inverse trig substitution Differentiation using logarithms Differentiation of parametric functions Higher order derivatives
30 th April -18 th May	Chapter 6 Mean Value theorem Rate of change using derivatives. Increasing and Decreasing functions. Maxima and minima Approximations using derivatives Tangent and normals using Derivatives.
3 July- 18 th July	Chapter 7 started Integration as anti derivative Substitution Method Special Integrals
19 th July - 4 th Aug	Chapter 7 continued Integration by partial fractions Integration By parts Area under a curve and definite integral
5 th Aug - 19 th Aug	Chapter 7 continued Definite integrals and their Properties Chapter 8 Application of integral for finding area under curve
20 th Aug – 4 th Sept	Chapter 9 Degree and order of DE Forming a DE Verifying solution of a DE 3 types of DE and finding their solutions.

Political Science Syllabus / Class XII / Sem I

Part A : Contemporary World Politics

1. Cold War Era
2. The End of Bipolarity
3. U.S. Hegemony in World Politics
4. Alternative Centres of Power
5. Environment and natural resources
6. Globalisation

Part B : Politics in India since Independence

1. Challenges of Nation-Building
2. Era of one-party dominance
3. Politics of Planned Development
4. India's External Relations