BISHOP SCOTT BOYS' SCHOOL

GRADE XI / ECONOMICS/ SYLLABUS (2024-25)

MONTH	NAME OF THE UNIT
APRIL	PART – A : STATISTICS FOR ECONOMICS **UNIT 1 : INTRODUCTION** What is Economics? Meaning, scope, functions and importance of statistics in Economics PART-B: INTRODUCTORY MICROECONOMICS **UNIT 4 : INTRODUCTION** Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of Production Possibility Frontier and Opportunity Cost
MAY	PART – A : STATISTICS FOR ECONOMICS **UNIT-2: COLLECTION, ORGANISATION AND PRESENTATION OF DATA** **COLLECTION OF DATA:** - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation **ORGANISATION OF DATA**: Meaning and types of variables; Frequency Distribution
JUNE	PART – A : STATISTICS FOR ECONOMICS **UNIT-2: COLLECTION,ORGANISATION AND PRESENTATION OF DATA** **PRESENTATION OF DATA**: Tabular Presentation and Diagrammatic Presentation of Data : (i) Geometric forms (bar diagrams and pie diagrams) (ii) Frequency diagrams (histogram, polygon and ogive) and (iii) Arithmetic line graphs (time series graph)
JULY	PART-B : INTRODUCTORY MICROECONOMICS **UNIT-5 CONSUMER'S EQUILIBRIUM AND DEMAND** Consumer's equilibrium - meaning of utility, Marginal Utility, Law of Diminishing Marginal Utility, conditions of consumer's equilibrium using marginal utility analysis Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium
AUGUST	PART-B : INTRODUCTORY MICROECONOMICS **UNIT-5 CONSUMER'S EQUILIBRIUM AND DEMAND** Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand – factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method and total expenditure method

SEPTEMBER	REVISION
OCTOBER	PART – A : STATISTICS FOR ECONOMICS **UNIT-3 STATISTICAL TOOLS AND INTERPRETATION** For all the numerical problems and solutions, the appropriate economic interpretations may be attempted. This means, the students need to solve the problems and provide interpretation for the results derived. **Measures of Central Tendency**- Arithmetic mean, Median and Mode **Correlation** – meaning and properties, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation (Non-Repeated Ranks and Repeated ranks) **Introduction to Index Numbers** - meaning, types - Wholesale Price Index, Consumer Price Index and index of industrial production, uses of index numbers; Inflation and Index numbers**.** Simple Aggregative Method PART-B: INTRODUCTORY MICROECONOMICS **UNIT-6 PRODUCER BAHAVIOUR AND SUPPLY** Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product Returns to a Factor Cost: Short run costs - Total Cost, Total Fixed Cost, Total Variable Cost; Average Cost; Average Fixed Cost, Average Variable Cost and Marginal Cost-meaning and their relationships
NOVEMBER	PART-B: INTRODUCTORY MICROECONOMICS **UNIT-6 PRODUCER BAHAVIOUR AND SUPPLY** Revenue – Total Revenue, Average Revenue and Marginal Revenue - meaning and their relationship Producer's equilibrium-meaning and its conditions in terms of Marginal Revenue- Marginal Cost Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.
DECEMBER	PART-B: INTRODUCTORY MICROECONOMICS **UNIT-7 PERFECT COMPETITION – PRICE DETERMINATION AND SIMPLE APPLICATIONS** Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.(Short Run Only) Simple Applications of Demand and Supply: Price ceiling, Price floor
JANUARY	REVISION
FEBRUARY-MARCH	REVISION

BISHOP SCOTT BOYS' SCHOOL

GRADE XI / ENGLISH/ SYLLABUS (2024-25)

MONTH	HORNBILL	SNAPSHOTS	GRAMMAR/WRITING/READING COMPREHENSION
APRIL	LESSON 1 : THE PORTRAIT OF A LADY	LESSON 1: THE SUMMER OF THE BEAUTIFUL WHITE HORSE	➢ TENSES ➢ READING COMPREHENSION
MAY	POEM 1 : A PHOTOGRAPH	LESSON 2 : THE ADDRESS	➢ NOTE MAKING BASED ON A PASSAGE ➢ READING COMPREHENSION
JUNE	LESSON 2 : WE'RE NOT AFRAID TO DIE…	LESSON 3 : MOTHER'S DAY	➢ POSTER MAKING ➢ REORDERING OF SENTENCES ➢ READING COMPREHENSION
JULY	POEM 2 : THE LABURNUM TOP LESSON 3 : DISCOVERING TUT	LESSON 3 : MOTHER'S DAY (Contd.)	➢ CLAUSES ➢ PASSAGE SUMMARIZATION ➢ READING COMPREHENSION
AUGUST	POEM 3 : THE VOICE OF THE RAIN	LESSON 4 : BIRTH	➢ CLASSIFIED ADS ➢ SPEECH WRITING ➢ TRANSFORMATION OF SENTENCES ➢ READING COMPREHENSION
SEPTEMBER	REVISION		
OCTOBER	LESSON 4 : THE ADVENTURE POEM 4 : CHILDHOOD	LESSON 5 : THE TALE OF MELON CITY LESSON 1: THE SUMMER OF THE BEAUTIFUL WHITE HORSE (REVISION)	➢ DEBATE WRITING ➢ TENSES (REVISION) ➢ REORDERING OF SENTENCES (REVISION)
NOVEMBER	LESSON 5 : SILK ROAD	LESSON 2 : THE ADDRESS (REVISION) LESSON 3 : MOTHER'S DAY (REVISION) LESSON 4 : BIRTH (REVISION)	➢ CLAUSES (REVISION) ➢ TRANSFORMATION OF SENTENCES (REVISION)
DECEMBER	POEM 5 : FATHER TO SON	LESSON 5 : THE TALE OF MELON CITY (REVISION)	➢ NOTE MAKING BASED ON PASSAGE (REVISION) ➢ PASSAGE SUMMARIZATION (REVISION)
JANUARY	ASL PRACTICE		
FEBRUARY-MARCH	REVISION		

BISHOP SCOTT BOYS' SCHOOL

GRADE XI / GEOGRAPHY / SYLLABUS (2024-25)

MONTH	CHAPTERS
APRIL	Lesson 1: Geography as a Discipline (Part A) Lesson 1: India- Location (Part B) Lesson 1: Introduction to Maps (Practical)
MAY	Lesson 2 : The Origin and Evolution of the Earth (Part A)
JUNE	Lesson 3 : Interior of the Earth (Part A) Lesson 4 : Distribution of Oceans and Continents (Part A) Lesson 2 : Structure and Physiography (Part B) Lesson 2 : Map Scale (Practical)
JULY	Lesson 5 : Geomorphic Processes (Part A) Lesson 6 : Landform and their Evolution (Part A) Lesson 3 : Drainage System (Part B) Lesson 3 : Latitude, Longitude and Time (Practical)
AUGUST	Lesson 7 : Composition and Structure of Atmosphere (Part A) Lesson 8 : Solar Radiation, Heat balance and Temperature (Part A) Lesson 4 : Climate (Part B) Lesson 4 : Map Projections (Practical)
SEPTEMBER	Lesson 9 : Atmospheric Circulations and Weather Systems (Part A) Lesson 5 : Natural Vegetation (Part B) Lesson 5 : Topographical Maps (Practical) REVISION
OCTOBER	Lesson 10 : Water in the Atmosphere (Part A) Lesson 11 : World Climate and Climate Change (To be tested through internal assessments in the form of project and presentation) (Part A) Lesson 6 : Natural Hazards and Disasters (To be tested through internal assessment in the form of projects and presentation) (Part B) Lesson 6 : Introduction to Remote Sensing (Practical)
NOVEMBER	Lesson 12 : Water (Oceans) (Part A)
DECEMBER	Lesson 13 : Movements of Ocean Water (Part A)
JANUARY	Lesson 14 : Biodiversity and Conservation (To be tested through internal assessments in the form of project and presentation) (Part A)
FEBRUARY – MARCH	REVISION

THE MAP WORK RELATED TO VARIOUS THEMES IS INCLUDED.

BISHOP SCOTT BOYS' SCHOOL

GRADE XI / HISTORY/ SYLLABUS (2024-25)

MONTH	CHAPTER
APRIL	SECTION I : EARLY SOCIETIES INTRODUCTION TIMELINE I (6 MYA TO 1 BCE)
MAY	THEME 1 : WRITING AND CITY LIFE
JUNE	SECTION II : EMPIRES INTRODUCTION TIMELINE II (c. 100 BCE TO 1300 CE)
JULY	THEME 2 : AN EMPIRE ACROSS THREE CONTINENTS THEME 3 : NOMADIC EMPIRES
AUGUST	SECTION III : CHANGING TRADITIONS INTRODUCTION TIMELINE III (c. 1300 TO 1700)
SEPTEMBER	THEME 4 : THE THREE ORDERS REVISION
OCTOBER	THEME 5 : CHANGING CULTURAL TRADITIONS
NOVEMBER	SECTION IV : TOWARDS MODERNISATION INTRODUCTION TIMELINE IV (c. 1700 TO 2000) THEME 6 : DISPLACING INDIGENOUS PEOPLE
DECEMBER	THEME 7 : PATHS TO MODERNISATION
JANUARY	REVISION
FEBRUARY	REVISION
MARCH	REVISION

THE MAP WORK RELATED TO VARIOUS THEMES IS INCLUDED.

BISHOP SCOTT BOYS' SCHOOL

GRADE XI/INFORMATICS PRACTICES/ SYLLABUS (2024-25)

MONTH	CHAPTERS
APRIL	**LESSON 1 : COMPUTER SYSTEM** • Introduction to computer and computing: evolution of computing devices • Components of a computer system and their interconnections • Input/output devices • Computer Memory: Units of memory, types of memory – primary and secondary • Data deletion, its recovery and related security concerns • Software: purpose and types – system and application software, generic and specific purpose software
MAY	**LESSON 2 : GETTING STARTED WITH PYTHON** • Basics of Python programming • Execution modes: - interactive and script mode, the structure of a program, indentation • Identifiers, keywords, constants, variables
JUNE	**LESSON 3 : PYTHON PROGRAMMING FUNDAMENTALS** • Types of operators, precedence of operators • Data types, mutable and immutable data types • Statements, expressions, evaluation and comments, input and output statements • Data type conversion • Debugging
JULY	**LESSON 4 : CONDITIONAL AND LOOPING CONSTRUCTS** • Control Statements: if-else, if-elif-else, while loop, for loop **LESSON 5 : LISTS IN PYTHON** • Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()
AUGUST	**LESSON 6 : DICTIONARY** • Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del, clear()
SEPTEMBER	Revision
OCTOBER	**LESSON 7 : DATABASE CONCEPTS** • Database Concepts: Introduction to database concepts and its need, Database Management System • Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key

NOVEMBER	**LESSON 8 : STRUCTURED QUERY LANGUAGE (SQL)** • Advantages of using Structured Query Language • Data Definition Language, Data Query Language and Data Manipulation Language • Introduction to MySQL • Creating a database using MySQL, Data Types • Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER • Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, • Logical operators, IS NULL, IS NOT NULL • Data Manipulation: INSERT, DELETE, UPDATE
DECEMBER	**LESSON 9 : INTRODUCTION TO THE EMERGING TRENDS** • Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics • Big data and its characteristics • Internet of Things (IoT), Sensors, Smart cities • Cloud Computing and Cloud Services (SaaS, IaaS, PaaS) • Grid Computing • Block chain technology
JANUARY	Revision
FEBRUARY - MARCH	Revision

BISHOP SCOTT BOYS' SCHOOL

GRADE XI / PHYSICS/ SYLLABUS (2024-25)

MONTH	CHAPTER
APRIL	**LESSON 2 : UNITS AND MEASUREMENTS** Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications
MAY	**LESSON 3 : MOTION IN A STRAIGHT LINE** Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion
JUNE	**LESSON 3 : MOTION IN A STRAIGHT LINE** Uniform and non- uniform motion, and instantaneous velocity, uniformly accelerated motion, velocity -time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment)
JULY	**LESSON 4 : MOTION IN A PLANE** Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion **LESSON 5 : LAWS OF MOTION** Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road)
AUGUST	**LESSON 6 : WORK, ENERGY AND POWER** Work done by a constant force and a variable force; kinetic energy, work energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions **LESSON 9 : MECHANICAL PROPERTIES OF SOLIDS** Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy
SEPTEMBER	**LESSON 7 : SYSTEM OF PARTICLES AND ROTATIONAL MOTION** Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation)

	LESSON 8 : GRAVITATION Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite **REVISION**
OCTOBER	**LESSON 10 : MECHANICAL PROPERTIES OF FLUIDS** Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise
NOVEMBER	**LESSON 11 : THERMAL PROPERTIES OF MATTER** Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv -calorimetry; change of state - latent heat capacity Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law **LESSON 12 : THERMODYNAMICS** Thermal equilibrium and definition of temperature, zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes
DECEMBER	**LESDON 13 : KINETIC THEORY** Equation of state of a perfect gas, work done in compressing a gas Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number **LESSON 14 : OSCILLATIONS** Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their application Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period
JANUARY	**LESSON 15 : WAVES** Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats
FEBRUARY-MARCH	REVISION

BISHOP SCOTT BOYS' SCHOOL

GRADE XI / POLITICAL SCIENCE / SYLLABUS (2024-25)

MONTH	CHAPTER
APRIL	Lesson – 1 : Constitution: Why and How? (Part-A) Lesson – 1: Political Theory: An Introduction (Part-B)
MAY	Lesson – 2 : Rights in the Indian Constitution (Part-A) Lesson – 2 : Freedom (Part-B)
JUNE	Lesson – 3 : Election and Representation (Part-A) Lesson – 3 : Equality (Part-B)
JULY	Lesson – 4 : Executive (Part-A) Lesson – 5 : Legislature (Part-A) Lesson – 4: Social Justice (Part-B)
AUGUST	Lesson – 6 : Judiciary (Part-A) Lesson – 5: Rights (Part-B)
SEPTEMBER	REVISION
OCTOBER	Lesson – 7 : Federalism (Part-A) Lesson – 6: Citizenship (Part-B)
NOVEMBER	Lesson – 8 : Local Governments (Part-A) Lesson – 7 : Nationalism (Part-B)
DECEMBER	Lesson – 9 : Constitution as a Living Document (Part-A) Lesson – 8 : Secularism (Part-B)
JANUARY	Lesson – 10 : The Philosophy of the Constitution (Part-A)
FEBRUARY	REVISION
MARCH	REVISION

THE MAP WORK RELATED TO VARIOUS THEMES IS INCLUDED.