# ST. COLUMBA'S SCHOOL CONTINUOUS LEARNING PLAN CLASS XI 2020-2021

## **SUBJECT - PHYSICS**

## LEARNING OUTCOMES

## Students will be able to

- 1. Understand the basic concepts
- 2. Apply the concepts taught in solving numerical problems
- 3. Apply the concepts in solving conceptual questions
- 4. Recognize importance of physics in real life situations
- 5. Solve higher order thinking skill questions

#### APRIL

Chapter's name: Units and Measurement Contents: Units of measurements, fundamental and derived units, SI units, errors in measurements, significant figures, Dimensions of physical quantities, dimensional analysis and its applications.

Learners will be able to understand Scope and application of Physics for the betterment of society. Learners will be able to understand the Need of measurement along with basics of fundamental and derived units. Learners will be able to understand the significance and importance of dimensional analysis of any physical quantity

#### JULY

Chapter's name: Motion in a plane: Scalar and vector quantities, position and displacement vectors, addition and subtraction of vectors, multiplication of vectors by a real number, relative velocity, Unit vector, Resolution of a vector in a plane, Rectangular components, Dot and cross product of vectors. Projectile motion and uniform circular motion.

Learners will be able to understand basics of Scalar and Vector quantities along with its Mathematical analysis (Addition, subtraction, Product, Resolution, Projection) Learners will be able to understand the concept of Projectile and it mathematical analysis (Parabolic path, Maximum height attained, Range, Time of flight, Resultant velocity)

#### MAY

Chapter's name: Motion in a straight line Contents: Position-time graph, speed and velocity. Uniform and non uniform motion, Average speed and instantaneous velocity. Uniformly accelerated motion, velocity- time, position- time graphs, relations for uniformly accelerated motion ( algebraic, graphical and calculas method). Elementary concepts of differentiation and integration for describing motion.

Learners will be able to understand the term motion as a relative term and classification of motion. Learners will be able to understand the significance of three equations of motion in our daily life along with it mathematical calculus analysis.

## AUGUST

Chapter's name: Work, power and energy Contents: Work done by a constant and variable force, kinetic energy, work- energy theorem and power. Potential energy, Gravitational and elastic potential energy, conservative and non conservative forces, conservation of mechanical energies, Elastic and inelastic collision. Learners will be able to understand the Basic concept of work done along with its mathematical analysis and Classification of work. Learners will be able to understand the Concept of mechanical energy, different forms energy and its conservation with necessary mathematical analysis. Learners will be able to understand the Mechanical power along with its Practical and SI

Chapter's name: Laws of motion Contents: Newton's laws, momentum, Impulse, law of conservation of linear momentum, equilibrium of concurrent forces, static and kinetic friction, laws of friction, rolling friction, dynamics of circular motion, centripetal force, examples of circular motion: vehicles on level circular road, banked road. Learners will be able to understand the Concept of force along all the three Newton's laws of motion. Learners will be able to understand the Concept of concurrent forces and dynamics of circular motion	units. Chapter's name: Gravitation Contents: Universal law of gravitation, acceleration due to gravity and it's variation with altitude and depth. Gravitational potential and potential energy, escape velocity, motion and types of satellites, Kepler's laws. Learners will be able to understand Concept of gravitational force between two bodies and its conservative nature. Learners will be able to understand the Concept of variation of acceleration due to gravity with height and depth.
SEPTEMBER Revision	OCTOBER Chapter's name: system of particles and rotational motion Contents: Centre of mass of a two particle system, equations of rotational motion. Learners will be able to understand the concept of centre of mass and centre of gravity of a body. Learners will be able to understand the Concept of Rotational Dynamics and equations of motion for rotating body. Learners will be able to understand the Analogy between Kinematics and Rotational Dynamics.
NOVEMBER	DECEMBER
Chapter's name: Rotational motion (continued) Contents: Rotational K.E, torque, angular momentum, moment of inertia, law of conservation of angular momentum, pure rolling motion on an inclined plane. Learners will be able to clear the concept of different parameters of rotating body (Torque, Angular momentum, moment of inertia) and applying different theorems to find the moment of inertia of simple geometrical objects.	Chapter's name: Properties of solids Contents: elasticity, stress, strain, elastic modulus, Hooke's law. Learners will be able to understand Practicality of different types of Elastic modulli and Relation between stress and strain. Chapter's name: Properties of liquids Contents: surface tension, viscosity, streamline and turbulent motion, equation of continuity and Bernoullie's theorem. Learners will be able to understand Practicality of Fluid dynamics in real life (Pascal's Law, Bernoulli's theorem, Magnus Effect) Learners will be able to understand Concept of surface Tension and Surface energy and will be able to relate it with a daily life.
JANUARY Chapter's name: Oscillation and waves Contents: Simple harmonic motion, it's equation and application in simple pendulum and spring. Forced and damped oscillation and resonance. Wave motion, Transverse and longitudinal waves, displacement equation of progressive waves, Principle of superposition of waves, stationary	FEBRUARY Chapter's name: Heat and thermodynamics Contents: Zeroth law and first law of thermodynamics, applications of first law, isothermal and adiabatic process, second law of thermodynamics, heat engine and refrigerator. Learners will be able to understand the Concept of Heat, work and Internal energy of the system.

waves. Learners will be able to understand the basic concept	Learners will be able to understand the Principle of Heat Engine and Refrigerator
of generation of waves along with its Classification	Chapter's name: Kinetic theory of gases
and Mathematical analysis and SHM. Learners will be	Learners will be able to understand the Pressure
able to understand the Concept of Different forms of	exerted by a gas on the walls of the container.
energy possessed by a body executing SHIVI with its	Learners will be able to understand the Concept
mathematical analysis. Learners will be able to	and relation between different specific heat
oscillations	capacities
Learners will be able to understand the	Contents: assumptions, concept of pressure and
Mathematical analysis of waves along its basic	kinetic interpretation of temperature
parameters (Amplitude , Frequency and Phase)	Revision
Learners will be able to understand the concept of	
reflection of waves along with concept of harmonics.	
Chapter's name: Thermal properties of matter	
Learners will be able to understand the Different	
methods of heat transfer, Concept of thermal	
expansion and Laws of cooling.	
Contents: Thermal expansion, specific heat, latent	
heat, Transfer of heat- conduction, thermal	
conductivity, convection and radiation.	

## ASSESSMENT PLANNER

Periodic Test - 1	SYLLABUS
	Motion in a straight line
40 Marks	Measurement, dimensions and errors
Periodic Test - 2	SYLLABUS
	Rotational motion
40 Marks	Properties of Solids
Half Yearly Exam	SYLLABUS
	Motion in a straight line
Theory / Prac	Motion in a plane
70/30	Measurement, dimensions and errors
80/20	Laws of motion
60/40	Work, power and energy
	Gravitation.
Theory	
100 Marks	
Annual Exam	SYLLABUS
	Motion in a straight line,
Theory / Prac	Motion in a plane
70/30	Measurement, dimensions and errors
80/20	Laws of motion
60/40	Work, power and energy
	Gravitation.
Theory	Rotational motion
100 Marks	Properties of solids, properties of liquids, thermal properties of matter
	Oscillation and waves
	Heat and thermodynamics
	Kinetic theory of gases
Theory 100 Marks Annual Exam Theory / Prac 70/30 80/20 60/40 Theory 100 Marks	Gravitation. SYLLABUS Motion in a straight line, Motion in a plane Measurement , dimensions and errors Laws of motion Work, power and energy Gravitation. Rotational motion Properties of solids, properties of liquids, thermal properties of matter Oscillation and waves Heat and thermodynamics Kinetic theory of gases

\*\*\*\*\*\*

## **SUBJECT - Chemistry**

## **LEARNING OUTCOMES**

- To promote understanding of basic facts and concepts in chemistry.
- Make students capable of studying chemistry in academic and professional courses at tertiary levels.
- To expose students to various emerging new areas of chemistry and apprise them with their relevance in future studies and their application in various spheres of chemical sciences and technology.
- To equip students to face various challenges related to health, nutrition, environment, population, weather, industries and agriculture.
- To develop problem solving skills in students.

• To expose s	To expose students to different processes used in industries and their technological		
applications	applications.		
<ul> <li>To apprise students with interface of chemistry with other disciplines of science such as physics, biology, geology ets.</li> </ul>			
<ul> <li>To acquaint students with different aspects of chemistry used in daily life.</li> </ul>			
Integrate life skills and values in context of chemistry.			
	APRIL	MAY	
Some B	asic Concepts of Chemistry	Classification of elements and	
	SDG – 13 ; 14 & 15	periodicity in properties	
	Structure of Atom	5DG-0; 10 & 12 Environmental Chemistry ( not in	
	SDG- 4	Syllabus)	
	556 4	SDG- 13	
To study the	various laws of chemical combination	IUPAC nomenclature of organic	
To understa	nd and apply mole concept in solving	compounds.	
numericals		SDG-4	
Differentiat	e between empirical formula and	To study the properties of	
molecular fo	ormula	elements in s,p d &f block	
<ul> <li>to study the</li> </ul>	various methods to express the	To state the modern periodic law	
concentratio	on of a solution	and understand the classification	
To study the	Rutherford and Bohr's model of	of elements in the modern	
Atom and th	neir limitations	periodic table	
differentiate	e between orbit and orbitals	<ul> <li>to predict the group, period and block of an element in the</li> </ul>	
<ul> <li>Study the quantum and the four</li> </ul>	antum mechanical model of Atom	periodic table	
To write the	electronic configurations of various	• to study the variation of periodic	
elements ar	d their ions	properties like radii, ionisation	
to understa	nd the stability of half and fully filled	enthalpy, electron gain enthalpy,	
orbitals		properties down the group and	
		across the period	
		• to name the various organic	
		compounds according to the	
		IUPAC nomenclature	
		to study the harmful effects of	
		pollution on living systems	
	JULY	AUGUST	
Chemical Bo	onding and Molecular Structure	Hydrogen	
	SDG- 17	SDG-6;8;9 & 13	
		The s-block elements SDG-6;8;9 &13	
	States of Matter	To justify the position of	
	SDG-16	hydrogen In the periodic table by	
to develop u	Inderstanding about the different	comparing its properties with	
types of bor	IOS	Group 1 and group 17 elements	
to familiaris	e with the directional properties of	to study the preparation and     proportion of it's evides	
covalent bo	rus and to predict the geometry of	properties of it's oxides	
To evoluin +	he honding in molecules using valence	<ul> <li>content of the physical and chemical properties of water and</li> </ul>	
bond theory	and hybridization	it's types	

- To study the factors which help in the formation of an ionic bond
- Define dipole moment and state the Fazan's rule of polarisation
- Understand the formation of coordinate bonds
- to study the types of intermolecular forces dispersion forces and hydrogen bond and their consequences
- understand the formation of covalent bond using MOT in simple molecules
- to state an understand the significance of various gas laws
- understand the difference between an ideal gas and a real gas using kinetic molecular theory of gases

## **SEPTEMBER**

## Thermodynamics

## SDG-9 ; 16

- To understand the concept of system and it's types
- To distinguish between intensive and extensive properties
- to study the various types of processes
- understand and apply the various laws of thermodynamics
- to state Hess's law of constant heat summation and it's application
- to define various forms of enthalpies
- To measure the enthalpy change and internal energy change in various processes
- To study the terms- enthalpy, entropy, internal energy, Gibb's free energy and heat capacity

## **NOVEMBER**

## **Redox Reactions**

SDG- 13

- to study the concept of oxidation and reduction, Oxidising agent and reducing agent
- to balance the redox equations using ion- electron method
- find the oxidation state of element in a given species

- To compare the physical and chemical properties of Group One and group 2 elements
- to study the diagonal relationship between lithium magnesium and beryllium aluminium
- To study the abnormal behaviour of lithium and beryllium

## **OCTOBER**

## Thermodynamics (Continued)

- To know the relation between equilibrium constant and Gibb's free energy
- To find the relation between the spontaneity and ^ G

## DECEMBER Equilibrium

SDG- 3;14 &15

- to study the characteristics of different types of physical equilibria
- to state law of mass action and law of equilibrium
- To study the characteristics of the equilibrium constant
- To state and use the Le Chatelier's principle
- To study the ionic equilibrium,

	<ul> <li>pH and ionic and solubility product and apply the concept learnt to solve numericals</li> <li>To compare the acidic and basic strength using Ka and Kb along with degree of ionization</li> <li>To understand the function of buffer</li> <li>To learn the significance of common ion effect in cation analysis</li> </ul>
JANUARY	FEBRUARY
Organic Chemistry (some basic principles and techniques)	I he p – block elements
300-3,3,12 010	To study the general trends in the
Hydrocarbons	properties of group 13 and 14 elements
SDG -3;9;12 &16	To understand the anomalous
<ul> <li>To understand the various electron movement in</li> </ul>	behaviour of the first element in a
organic compounds – I, R, M E effects and their	group and inert pair effect
applications	To study the various forms of carbon
• To study the various types of isomerism in organic	and the bonding in them
compounds	compounds of B. C. Si and Al
• To classify and study the various types of reactions in organic chemistry (in detail)	
<ul> <li>To study the various types of bond fission. carbon</li> </ul>	
ions and attacking reagents	
• To learn the preparation, properties and	
distinguishing tests of different hydrocarbons-	
alkanes, alkenes, alkynes and aromatic	
compounds	

## ASSESSMENT PLANNER

Periodical	SYLLABUS
Assessment 1	
40 Marks	Some Basic Concepts of Chemistry + Atomic Structure + Classification of Elements
40 Walks	and renounity in properties + iorAC Nomenciature of organic compounds.
Periodical	SYLLABUS
Assessment 2	
	Thermodynamics + Redox Reactions + Hydrogen + s – block elements
40 Marks	

Half Yearly	SYLLABUS
Exam	
Theory / Prac 70/30	Some Basic Concepts of Chemistry + Atomic Structure + Classification of Elements and Periodicity in properties + IUPAC Nomenclature of Organic Compounds + Chemical Bonding and Molecular Structures + States of Matter.
	Practical Syllabus:
	Neutralization Titration and Anion Analysis
Annual Exam	SYLLABUS
	Some Basic Concepts of Chemistry + Atomic Structure + Classification of Elements
Theory / Prac	and Periodicity in properties + Chemical Bonding and Molecular Structures + States
70/30	of Matter + Thermodynamics + Redox Reactions + Hydrogen +The s – block
	elements + Equilibrium + The p-block elements +organic chemistry + Hydrocarbons.
	Practical Syllabus:
	Neutralization Titration and Salt Analysis

\*\*\*\*\*\*

## LEARNING OUTCOMES

On completion of the prescribed CBSE syllabus, the students shall be able to		
<ul> <li>Understand and differentiate between various concepts taught &amp; apply them to solve the problems.</li> </ul>		
<ul> <li>Develop investigative skills &amp; improve their logi</li> </ul>	cal and analytical skills	
<ul> <li>Stimulate the interest among students by going</li> </ul>	from LOTS to HOTS	
• Enable them to comprehend, analyze, synthesize, evaluate, and make generalizations so as		
to solve mathematical problems.		
<ul> <li>Co-relate mathematics into their lives outside the second s</li></ul>	he school i.e. at home and in community	
Generate new knowledge with the information	imparted	
Develop a positive attitude towards learning M	athematics	
<ul> <li>Help them recognize the importance of mathem</li> </ul>	natics for future professional courses.	
Perform mathematical operations and manipulation     Think and reason presidely logically and evitical	ations with confidence, speed and accuracy	
<ul> <li>Think and reason precisely, logically and critical mathematical ideas</li> </ul>	iy in any given situation & communicate	
<ul> <li>Identify, concretize, symbolize and use mathem</li> </ul>	atical relationships in everyday life	
<ul> <li>Collect, organize, represent, analyze, interpret (</li> </ul>	data and make conclusions and predictions	
from its results.		
<ul> <li>Apply mathematical knowledge and skills to familiar and unfamiliar situations</li> </ul>		
<ul> <li>Develop willingness to work collaboratively</li> </ul>		
APRIL	MAY	
COMPLEX NUMBERS & QUADRATIC	TRIGONOMETRY CONTD	
EQUATIONS		
TRIGONOMETRY		
JULY	AUGUST	
• STRAIGHT LINES	PERMITATION AND	
3D GEOMETRY	COMBINATIONS	
	LINEAR INEQUALITIES	
SEPTEMBER	OCTOBER	
LINEAR INEQUALITIES CONTD	CONIC SECTION	
	• SETS	
NOVEMBER	DECEMBER	
RELATION & FUNTIONS	• STATISTICS	
PROBABILITY		

## <u>JANUARY</u>

- LIMITS & DERIVATIVES
- SEQUENCE & SERIES

#### **FEBRUARY**

- SEQUENCE & SERIES CONTD
- LOGARITHMS

<u>Periodic Test - 1</u> 40 Marks	<u>SYLLABUS</u> <ul> <li>COMLEX NUMBERS &amp; QUADRATIC EQUATIONS</li> <li>TRIGONOMERTY</li> </ul>
<u>Periodic Test – 2</u> 40 Marks	<u>SYLLABUS</u> CONIC SECTION  SETS  RELATIONS AND FUNCTIONS
<u>Half Yearly Exam</u> Theory / Practicles 80/20 Total	SYLLABUS ALL TOPICS OF PA1 AND STRAIGHT LINES 3-DIMENTIONAL GEOMETRY PERMUTATIONS & COMBINATIONS LINEAR INEQUALITIES
100 Marks	
<u>Annual Exam</u> Theory / Practicles 80/20 Total 100 Marks	SYLLABUS • TERM 1 SYLLABUS • PA2 SYLLABUS AND • PROBABILITY • STATISTICS • LIMIT & DERIVATIVES • SEQUENCE & SERIES • LOGARITHMS

## ASSESSMENT PLANNER

## **SUBJECT - WEB APPLICATIONS (803)**

## ITDC-311 Digital Content Creation- Adding Styles to Web Pages (CSS).

## **APRIL 2020**

Students will be able to :

- Understand and Define HTML.
- Understand and Define the different types of Tags and attributes in HTML.
- Design and Code Web pages using Basic HTML.

## MAY 2020

Students will be able to :

- Understand the need for and Define Cascading Style Sheets (CSS).
- Understand and Describe the Advantages of CSS.
- Understand and Define the Syntax of a CSS Rule.
- Understand and define the different Selectors in CSS

## JUNE 2020

Students will be able to :

- Understand and Design Web pages using the different style sheet locations (External, Internal, Inline).
- Understand and define the Style Rule Over-riding / Cascade
- Understand and apply different CSS properties and values.

## JULY 2020

Students will :

- Recap the concepts learnt in HTML and CSS
- Design and write web pages using HTML and CSS
- Prepare their Practical File

ITDC – 312 Web Scripting – Java Script.

## **AUGUST 2020**

Students will be able to :

- Understand and describe the features and applications of Javascript.
- Explain the advantages of using Javascript.
- Understand and demonstrate the different ways to write Javascript.
- Define variables and understand the need for variables.
- Differentiate between different types of Operators.
- Design and code scripts using Operators.
- Design and Code scripts using popup boxes (alert / confirm / prompt).

## SEPTEMBER 2020

Students will be able to :

- Recognize the importance of decision constructs or selection statements.
- Define and design code using different types of selection statements (if-else / switch-case).
- Recognize the importance of iterations / loops.
- Define and design code using different types of loop statements (while / do-while / for).

## OCTOBER 2020

Students will be able to :

• Understand and Describe the DOM (Document Object Model) and the different Objects in the DOM.

ITDC–313 Work Integrated Learning IT – WA-I.

Students will be able to :

- Understand the various work areas where they can fit themselves after having working knowledge of various software development tools.
- Understand various domains in which they can use their acquired programming skills for the development of different software applications specially web applications to cater the needs of the Business.
- Explore various projects in different domains which can be developed by them using Multimedia Authoring Tools, HTML, CSS and Javascript.

ITDC – 310 Multimedia Authoring- Animation Tools.

## NOVEMBER 2020

Students will be able to :

- Understand and Define Animation.
- Understand and Define Key Terms in Animation.
- Identify and Describe different Animation Tools.
- Understand and design Frames and Key Frames.
- Create an Animation using Tweening and Actionscripts.

## DECEMBER 2020

Students will be able to :

- Understand and Import Audio/Video Files.
- Understand and Define Lossy / Lossless Audio File Formats
- Understand and Define Digital Video / DV Encoders.
- Understand and Describe the Tools for Multimedia Publishing.

JANUARY 2021 RECAP

## **SUBJECT - PHYSICAL EDUCATION (048)**

## **APRIL 2020**

UNIT 1 - Changing Trends & Career in Physical Education

Students will be able to :

- Understand and define the meaning of Physical Education.
- Understand and define the Aims and Objectives of Physical Education.
- Understand and describe the various Career Options in Physical Education.
- Understand and describe the Competitions in various sports at national and international level.
- Understand and describe the Khelo-India Program.

## MAY 2020

**UNIT 2 - Olympic Value Education** 

Students will be able to :

- Understand and describe the Olympics, Paralympics and Special Olympics.
- Understand, define and describe the Olympic Symbols, and Olympic Ideals,
- Understand, define and describe the Objectives & Values of Olympism.
- Understand and describe the International Olympic Committee.
- Understand and describe the Indian Olympic Association.

## JULY 2020

UNIT 3 - Physical Fitness, Wellness & Lifestyle

Students will be able to :

- Understand and describe the Meaning & Importance of Physical Fitness, Wellness & Lifestyle.
- Understand and describe the Components of physical fitness and Wellness.
- Understand and describe the Components of Health related fitness.

## **AUGUST 2020**

UNIT 4 - Physical Education & Sports for CWSN (Children With Special Needs- Divyang)

Students will be able to :

- Understand the need for Inclusion in sport.
- Understand and define the Aims & objectives of Adaptive Physical Education.
- Understand and define the Vision, Mission and Goals of Organizations promoting Adaptive Sports (Special Olympics Bharat; Paralympics, Deaflympics)
- Understand, define and describe the Concept of Inclusion, its need and Implementation.
- Understand, define and describe the Role of various professionals for children with special needs. (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator).

SEPTEMBER 2020 UNIT 5 - YOGA

Students will be able to :

• Understand, define and describe the Meaning & Importance of Yoga.

- Understand, define and describe the Elements of Yoga.
- Understand the basics of various Asanas: Pranayam, Meditation & Yogic Kriyas.
- Understand the meaning and classification of various Asanas.
- Understand Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana, Naukasana, Vrikshasana (Tree pose), Garudasana (Eagle pose)
- Understand Relaxation Techniques for improving concentration Yoganidra

## OCTOBER 2020

**UNIT 6 - Physical Activity & Leadership Training** 

Students will learn the following :

- Leadership Qualities & Role of a Leader
- Creating leaders through Physical Education
- Meaning, objectives & types of Adventure Sports (Rock
- Climbing, Tracking, River Rafting, Mountaineering, Surfing and Para Gliding)
- Safety measures to prevent sports injuries

NOVEMBER 2020

UNIT 7 - Test, Measurement & Evaluation

Students will learn the following :

- Define Test, Measurement & Evaluation
- Importance of Test, Measurement & Evaluation In Sports
- Calculation of BMI & Waist Hip Ratio
- Somato Types (Endomorphy, Mesomorphy & Ectomorphy)
- Measurement of health related fitness

## DECEMBER 2020

UNIT 8 - Fundamentals of Anatomy, Physiology & Kinesiology in Sports

Students will learn the following :

- Definition and Importance of Anatomy, Physiology & Kinesiology.
- Function of Skeleton System, Classification of Bones & Types of Joints
- Properties and Functions of Muscles
- Function & Structure of Respiratory System and Circulatory System
- Equilibrium Dynamic & Static And Centre of Gravity and its application in sports

JANUARY 2020 UNIT 9 - Psychology & Sports

Students will learn the following :

- Definition & Importance of Psychology in Physical Education & Sports
- Define & Differentiate Between Growth & Development
- Developmental Characteristics At Different Stages of Development
- Adolescent Problems & Their Management

FEBRUARY 2020 UNIT 10 - Training and Doping in Sports Students will learn the following :

- Meaning & Concept of Sports Training
- Principles of Sports Training
- Warming up & limbering down
- Skill, Technique & Style
- Concept & classification of doping
- Prohibited Substances & their side effects
- Dealing with alcohol and substance abuse

RECAP

## **SUBJECT - ENTREPRENEURSHIP**

APRIL	MAY	
	<u>UNIT – 2</u>	
<u>UNIT -1</u>	AN ENTREPRENEUR	
ENTREPRENEURSHIP - WHAT, WHY AND HOW	After going through this lesson the students will be	
	able to :	
<ul> <li>After studying this lesson the students should be able to : <ul> <li>Understand the concept of Entrepreneurship.</li> <li>Explain the functions of Entrepreneurship.</li> <li>Appreciate the need for Entrepreneurship in our economy.</li> <li>State the myths, advantages and disadvantages of Entrepreneurship.</li> <li>Describe the process of Entrepreneurship</li> </ul> </li> </ul>	<ul> <li>Differentiate between various types of Entrepreneurs.</li> <li>Explain the competencies of an Entrepreneur.</li> <li>Understand the meaning of Ethical Entrepreneurship</li> <li>Appreciate the importance of Ethical Entrepreneurship</li> <li>Highlight the value of Ethics to an Entrepreneur.</li> <li>Differentiate between Entrepreneur and Employee</li> <li>State the meaning and describe the importance of Intrapreneurship in an Organisation.</li> </ul>	
	• Project work during Summer Break	
JULY	<u>AUGUST</u>	
JULY UNIT- 3	<u>AUGUST</u> UNIT – 4	
<u>JULY</u> <u>UNIT- 3</u> ENTREPRENELIRSHIP JOURNEY	<u>AUGUST</u> <u>UNIT – 4</u> ENTREPRENEURSHIP AS INNOVATION AND PROBLEM	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u>	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> SOLVING	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u>	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u>	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to :	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : • Understand the concept of Business Plan.	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to :	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : • Understand the concept of Business Plan. • Understand the role of society and family in	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : • Understand the concept of Business Plan. • Understand the role of society and family in the growth of an Entrepreneur.	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : Understand the concept of Business Plan. Understand the role of society and family in the growth of an Entrepreneur. Differentiate between Feasibility Study and	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society • Appreciate the role of innovations in	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : Understand the concept of Business Plan. Understand the role of society and family in the growth of an Entrepreneur. Differentiate between Feasibility Study and Business Plan.	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society • Appreciate the role of innovations in Entrepreneurial ventures.	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : • Understand the concept of Business Plan. • Understand the role of society and family in the growth of an Entrepreneur. • Differentiate between Feasibility Study and Business Plan. • Understand the reason for success and failure	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society • Appreciate the role of innovations in Entrepreneurial ventures. • Explain the concept and importance of Social	
<u>JULY</u> <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : Understand the concept of Business Plan. Understand the role of society and family in the growth of an Entrepreneur. Differentiate between Feasibility Study and Business Plan. Understand the reason for success and failure of Business Plan	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society • Appreciate the role of innovations in Entrepreneurial ventures. • Explain the concept and importance of Social Entrepreneurship.	
JULY         UNIT- 3 ENTREPRENEURSHIP JOURNEY         After studying this unit students will be able to :         • Understand the concept of Business Plan.         • Understand the role of society and family in the growth of an Entrepreneur.         • Differentiate between Feasibility Study and Business Plan.         • Understand the reason for success and failure of Business Plan.         • Understand the reason for success and failure of Business Plan	<u>AUGUST</u> <u>UNIT - 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society • Appreciate the role of innovations in Entrepreneurial ventures. • Explain the concept and importance of Social Entrepreneurship. • Differentiate between internal and external	
JULY UNIT- 3 ENTREPRENEURSHIP JOURNEY After studying this unit students will be able to : Understand the concept of Business Plan. Understand the role of society and family in the growth of an Entrepreneur. Differentiate between Feasibility Study and Business Plan. Understand the reason for success and failure of Business Plan Understand the organization and direction of activities in a Business Venture	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : • Understand the role of Entrepreneurs as problem solvers in Society • Appreciate the role of innovations in Entrepreneurial ventures. • Explain the concept and importance of Social Entrepreneurship. • Differentiate between internal and external risk	
JULYUNIT- 3ENTREPRENEURSHIP JOURNEYAfter studying this unit students will be able to :0 Understand the concept of Business Plan.Understand the role of society and family in the growth of an Entrepreneur.Differentiate between Feasibility Study and Business Plan.Understand the reason for success and failure of Business Plan.Understand the organization and direction of activities in a Business Venture.	AUGUST UNIT – 4 ENTREPRENEURSHIP AS INNOVATION AND PROBLEM SOLVING After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk.	
JULY         UNIT- 3         ENTREPRENEURSHIP JOURNEY         After studying this unit students will be able to :         • Understand the concept of Business Plan.         • Understand the role of society and family in the growth of an Entrepreneur.         • Differentiate between Feasibility Study and Business Plan.         • Understand the reason for success and failure of Business Plan.         • Understand the reason for success and failure activities in a Business Venture.	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in croation of new forms of huminess	
JULY         UNIT- 3 ENTREPRENEURSHIP JOURNEY         After studying this unit students will be able to :         OUNDERSENT         After studying this unit students will be able to :         OUNDERSENT         After studying this unit students will be able to :         0       Understand the concept of Business Plan.         0       Understand the role of society and family in the growth of an Entrepreneur.         0       Differentiate between Feasibility Study and Business Plan.         0       Understand the reason for success and failure of Business Plan         0       Understand the organization and direction of activities in a Business Venture.	<u>AUGUST</u> <u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in creation of new forms of business.	
JULY         UNIT- 3 ENTREPRENEURSHIP JOURNEY         After studying this unit students will be able to :         OUNDERSTOR         After studying this unit students will be able to :         OUNDERSTOR         After studying this unit students will be able to :         OUNDERSTOR         OUNDERSTOR <td colspan<="" td=""><td>AUGUST UNIT – 4 ENTREPRENEURSHIP AS INNOVATION AND PROBLEM SOLVING After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in creation of new forms of business. Explain the different barriers of</td></td>	<td>AUGUST UNIT – 4 ENTREPRENEURSHIP AS INNOVATION AND PROBLEM SOLVING After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in creation of new forms of business. Explain the different barriers of</td>	AUGUST UNIT – 4 ENTREPRENEURSHIP AS INNOVATION AND PROBLEM SOLVING After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in creation of new forms of business. Explain the different barriers of
JULY UNIT- 3 ENTREPRENEURSHIP JOURNEY After studying this unit students will be able to : Understand the concept of Business Plan. Understand the role of society and family in the growth of an Entrepreneur. Differentiate between Feasibility Study and Business Plan. Understand the reason for success and failure of Business Plan Understand the organization and direction of activities in a Business Venture.	AUGUST UNIT – 4 ENTREPRENEURSHIP AS INNOVATION AND PROBLEM SOLVING After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in creation of new forms of business. Explain the different barriers of Entrepreneurship.	
JULY <u>UNIT- 3</u> <u>ENTREPRENEURSHIP JOURNEY</u> After studying this unit students will be able to : Understand the concept of Business Plan. Understand the role of society and family in the growth of an Entrepreneur. Differentiate between Feasibility Study and Business Plan. Understand the reason for success and failure of Business Plan Understand the organization and direction of activities in a Business Venture.	<u>UNIT – 4</u> <u>ENTREPRENEURSHIP AS INNOVATION AND PROBLEM</u> <u>SOLVING</u> After studying this lesson the students should be able to : Understand the role of Entrepreneurs as problem solvers in Society Appreciate the role of innovations in Entrepreneurial ventures. Explain the concept and importance of Social Entrepreneurship. Differentiate between internal and external risk. Describe the role played by technology in creation of new forms of business. Explain the different barriers of Entrepreneurship. Understand the term Business Incubator.	

<u>SEPTEMBER</u>	OCTOBER
UNIT – 5 UNDERSTANDING THE MARKET After studying this unit students will be able to : • Understand the concept of market and its evolution over time. • Understand the meaning and concept of E- Business and E- Commerce. Its role in the	<ul> <li>Understand the strategy of market expansion and development.</li> <li>Understand the elements of Trade and Commerce</li> <li>Explain the concept of Marketing mix and the 4 P'S Of Marketing</li> </ul>
<ul> <li>modern day business community.</li> <li>Analyze the Market Environment at Micro</li> </ul>	<u>UNIT – 6</u> BUSINESS ARITHMETIC
and Macro level.	After studying this lossen the students should be able
<ul> <li>Explain the techniques of Market Research and instruments used in the same.</li> </ul>	to :
(CONTINUED IN OCTOBER)	<ul> <li>Understand the importance and technique of preparing a Cash Register.</li> </ul>
	<ul> <li>Understand the meaning and concept of the term Cash Inflow and Cash Outflow</li> <li>Understand the concept of COST and its components - Start up , Fixed and Variable</li> </ul>
	Cost • Explain the terms – Unit Cost, Unit Of Sale Unit Price
	(CONTINUED IN NOVENBER)
NOVEMBER	DECEMBER UNIT – 7
	<b>RESOURCE MOBILIZATION</b>
<ul> <li>Calculate per unit cost of a Single Product.</li> </ul>	
<ul> <li>Explain the concept of Profit, its calculation and the impact of direct and indirect expenses on the profit.</li> </ul>	After studying this lesson the students should be able to :
Understand the concept of Break Even	• Identify the different types of resources.
<ul> <li>Analysis.</li> <li>Understand the meaning and importance of</li> </ul>	<ul> <li>Understand the selection process of Human Resources</li> </ul>
Taxes.	<ul> <li>Describe the role and importance of a Mentor</li> <li>State the meaning of Fixed and Working capital</li> </ul>
	<ul> <li>Explain the factors affecting working capital</li> <li>Describe the meaning of capital structure ( CONTINUED IN JANUARY)</li> </ul>
JANUARY	FEBRUARY
<ul> <li>Understand the concept of Mentorship</li> <li>Highlight the Role and importance of Mentor</li> <li>Classify the Business and Industry</li> <li>Identify the various sources for an</li> </ul>	Revision for Final Term
Entrepreneur	
*****	******

# SUBJECT- Information Technology (802)

APRIL	LEARNING OUTCOMES
UNIT 1 -COMPUTER ORGANIZATION UNIT 2 - NETWORKING AND INTERNET	<ul> <li>Understand and appreciate fundamentals of Computer and its characteristics</li> <li>Understand the components of computer</li> <li>Understand Operating System</li> <li>Understand the importance of Utilities</li> <li>Understand Computer Networking</li> <li>To understand Internet and its terminology</li> </ul>
MAY	LEARNING OUTCOMES
UNIT 2 -NETWORKING AND INTERNET (Contd.)	<ul> <li>Internet Devices to be used and the protocols</li> <li>Networking Security Measures</li> <li>Network safety concerns</li> </ul>
<u>JULY</u> UNIT 2 -NETWORKING AND INTERNET (Contd.)	LEARNING OUTCOMES • Understand what is cybercrime and the need of Cyber Security • Cyber Safety Laws for safe practices
<u>AUGUST</u> UNIT 3 - Office Automation Tools - Spreadsheet.	<ul> <li><u>LEARNING OUTCOMES</u></li> <li>Know the office automation concepts</li> <li>Apply software application to the office work using OpenOffice Calc</li> <li>Electronic Spreadsheets (Entering data in worksheet, Navigating with worksheet, Insert,/ delete cell, using various formulae, format the data in worksheet, define and apply styles, enhance worksheets using charts etc.)</li> </ul>
SEPTEMBER UNIT 3 - Office Automation Tools - Word processing. (Contd)	<ul> <li><u>LEARNING OUTCOMES</u></li> <li>Know the office automation concepts</li> <li>Apply software application to the office work using OpenOffice Writer</li> <li>Basic functionalities of word processing tools (Creating, saving, copy, move, text formatting, Page layout, Mail merge etc.)</li> </ul>

OCTOBER	LEARNING OUTCOMES
UNIT 3 - Office Automation Tools – Presentation. (Contd)	<ul> <li>Know the office automation concepts</li> <li>Apply software application to the office work using OpenOffice Impress</li> <li>Electronic presentation tools (Anatomy of application window, basic functions with applying designs, using animation, slide transitions, Insert clip art, insert sound/movies etc.)</li> </ul>
NOVEMBER	LEARNING OUTCOMES
UNIT 4 - RDBMS	<ul> <li>Understand Relational Database Management System</li> <li>Introduction to MYSQL</li> <li>DML Commands</li> </ul>
DECEMBER	LEARNING OUTCOMES
UNIT 5 - FUNDAMENTALS TO JAVA PROGRAMMING	<ul> <li>Understand Integrated Development Environment (NETBEANS)</li> <li>JAVA Programming</li> </ul>
JANUARY	LEARNING OUTCOMES
SECTION A - EMPLOYABILITY SKILLS Unit 1 Communication Skills –III Unit 2 Self-management Skills –III Unit 3: Information & Communication Technology – III	<ul> <li>Demonstrate knowledge ofvarious methods of communication</li> <li>Identify specific Communication styles</li> <li>Demonstrate basic writing skills</li> <li>Demonstrate impressive appearance and grooming</li> <li>Demonstrate team work skills</li> <li>Apply time management strategies and techniques</li> <li>Create a document on word processor</li> <li>Edit, save and print a document in word processor</li> </ul>
FEBRUARY	LEARNING OUTCOMES
SECTION A - EMPLOYABILITY SKILLS (Contd.) Unit 4: Entrepreneurial Skills – III	<ul> <li>Describe the significance of entrepreneurial</li> <li>Demonstrate the knowledge of attitudinal changes required to become an entrepreneur</li> </ul>

Unit 5: Green Skills – III	<ul> <li>Describe importance of main sector of green economy</li> <li>Describe the major green Sectors/Areas and the role of various stakeholder in green economy</li> </ul>

Г

\*\*\*\*\*\*\*

# SUBJECT - Informatics Practices (065)

APRIL	LEARNING OUTCOMES		
Unit 1 - Introduction to computer system	• Understand and appreciate fundamentals of		
	Computer and its characteristics		
	<ul> <li>Understand the components of computer</li> </ul>		
	Understand Operating System		
	<ul> <li>Understand the importance of Utilities</li> </ul>		
Unit 4 - Emerging Trends	Identify the Emerging trends in the fields of		
	Information Technology.		
	Artificial Intelligence (AI)		
	• Big Data		
MAY	LEARNING OUTCOMES		
Unit 4 - Emerging Trends (Contd.)	<ul> <li>Identify the Emerging trends in the fields of</li> </ul>		
	Information Technology.		
	Internet of Things (IoT)		
	Cloud Computing		
	Grid Computing		
	Blockchains		
JULY	LEARNING OUTCOMES		
Unit 2: Introduction to Python	General concept to create Python programs		
	using different data types, lists and		
	a Dython Konwords & Data Handling		
	Programs for Input and Output data		
	• Programs for input and Output data		
AUGUST	LEARNING OUTCOMES		
Unit 2. Internetion to Dath on (Counted)			
Unit 2: Introduction to Python (Contd)	Purpose and Difference between Conditional		
	and iteration / Looping statements.		
<u>SEPTEMBER</u>	LEARNING OUTCOMES		
Unit 3: Database concepts and the	Understand database concents and Relational		
Structured Query Language	Database Management Systems.		
	Advantages of using Structured Querv		
	Language		

<u>OCTOBER</u>	LEARNING OUTCOMES	
Unit 3: Database concepts and the Structured Query Language (Contd.)	<ul> <li>Retrieve and manipulate data in RDBMS using Structure Query Language</li> <li>Data Definition: CREATE TABLE</li> <li>Data Manipulation: INSERT</li> </ul>	
NOVEMBER	LEARNING OUTCOMES	
Unit 3: Database concepts and the Structured Query Language (Contd.)	<ul> <li>Retrieve and manipulate data in RDBMS using Structured Query Language</li> <li>Data Query: SELECT, FROM, WHERE.</li> </ul>	
DECEMBER	LEARNING OUTCOMES	
Unit 2: Introduction to Python - List (Contd.)	<ul> <li>Introduction to List</li> <li>Concept of using the List Operations and Traversing a List</li> </ul>	
JANUARY	LEARNING OUTCOMES	
Unit 2: Introduction to Python - List (Contd.)	<ul> <li>How use List Methods and Built-in Functions And Manipulation</li> </ul>	
Unit 2: Introduction to Python – Dictionaries (Contd.)	<ul> <li>Introduction to Dictionaries</li> <li>Concept of Traversing a Dictionary</li> </ul>	
<b>FEBRUARY</b>	LEARNING OUTCOMES	
Unit 2: Introduction to Python – Dictionaries (Contd.)	<ul> <li>Concept of using Dictionary Methods and Built-in Functions and Manipulating Dictionaries</li> </ul>	

\*\*\*\*\*\*

## **SUBJECT - ACCOUNTANCY**

## LEARNING OUTCOMES AND ASSESSMENT PLANNER (MONTH WISE)

## APRIL TOPICS WITH LEARNING OUTCOMES

Meaning in objectives of accounting: The student will be able to define explain list the meaning process advantages limitations of accounting.

Basic accounting terms: The student shall be able to express the meaning of the accounting terms with examples and clarity.

Accounting principles: The student will be able to understand the nature meaning features necessity of the accounting principles, accounting concepts and assumptions and is able to define each of them with example and clarity.

Process and Bases of accounting: The student would be able to differentiate between the accrual basis and cash basis of accounting through illustrations and various basis of differences.

## JULY TOPICS WITH LEARNING OUTCOMES

<u>Journals with GST:</u> The study of this chapter would enable the student to understand the meaning of GST, objectives, characteristics, categories of GST, intra State Supply, Inter State Supply, Accounting entries of GST

Ledgers, Trial balance :This chapter would enable the student to understand the meaning, features and utilities of ledger, format of ledger account, mechanics of posting, balancing of ledger accounts, difference between journal and ledger and drafting of trial balance.

Cash Book: The students will be able to understand the meaning of subsidiary books of accounting, classification of subsidiary books, advantages, meaning and features of cash book, kinds of types of cash book, simple cash book, cash book with 2 columns, balancing and posting of cash book.

#### MAY TOPICS WITH LEARNING OUTCOMES

Double entry system : The student would be able to understand the meaning of an account, meaning of debit and credit, rules of debit and credit, and significance of debit and credit balance in accounts

Origin of transactions source documents of accountancy: The student would be able to know the names, uses of source documents and Identify their Proforma and it's utility in accounting

Books of original entry journal: This would enable the students to understand the meaning of journal and journalizing, the advantages and limitations, steps in journalizing, simple and compound journal entries, discount and rebate, difference between trade discount, rebate and cash discount, opening entry.

## AUGUST TOPICS WITH LEARNING OUTCOMES

Subsidiary Books :This chapter would enable the students to understand subdivision of journal, purchase book, sales book, purchase return book, sales return book, journal proper, mechanics of posting of subsidiary books or special journals.

Rectification of Errors:The students would be able to understand the classification of errors: errors of omission, errors of commission, errors of principle and compensating errors. Errors affecting the trial balance or one-sided errors, errors not affecting the trial balance or two sided errors, locating errors or detection of errors, rectification of errors : before preparation of the trial balance, after preparation of the trial balance but before preparation of the final accounts, suspense account.

enable the students to understand the meaning of bank reconciliation statement, meaning, need and importance of bank reconciliation statement, reasons of difference between balances as per cash book and pass book, methods of preparing bank reconciliation statement, presentation of bank reconciliation statement. SEPTEMBER OCTOBER **TOPICS WITH LEARNING OUTCOMES** TOPICS WITH LEARNING OUTCOMES REVISION **Depreciation & Provision for Depreciation :** Accounting Equation: This chapter would enable the :This chapter would enable the student to student to understand: understand meaning of depreciation, depreciation Meaning of an accounting equation, effect of and amortization and depletion, causes or reasons transactions on accounting equation, process of of depreciation, accounting concept of depreciation preparing preparing accounting equation, rules for and depreciation accounting, objectives or need for accounting equations, effect of adjustment providing depreciation, factors or basis of providing depreciation, methods of recording depreciation, transactions on accounting equation difference between depreciation account and provision for depreciation account, methods of depreciation, preparation of asset disposal account, difference between straight line method and written down value method. Bills of Exchange: This chapter would enable the student to understand the meaning and features of bills of exchange, parties to a bill of exchange, advantages of bill of exchange, various important terms of bills of exchange, accounting treatment of Trade bills in the journal of drawer drawee and endorsee. **NOVEMBER** DECEMBER **TOPICS WITH LEARNING OUTCOMES TOPICS WITH LEARNING OUTCOMES** Financial Statements with Adjustments: This chapter Bills of Exchange continued will enable the students to understand the need for **Financial Statements without adjustments: This** adjustments in the final accounts, adjustments in chapter would enable the student to understand: preparation of financial statements with respect to: meaning of financial statements, objectives or inventory, prepaid, outstanding expenses accrued needs or importance of financial statements, users and unearned income, depreciation, bad debts, of financial statements, classification of capital and provision for doubtful debts, provision for discount revenue items, preparation of trading account, on debtors, managers Commission, interest on profit and loss account and balance sheet, grouping capital, goods distributed as samples, abnormal or and marshalling (arrangement) of Assets and

liabilities, classification of Assets and liabilities, methods of presentation of financial statements. accidental losses, goods taken by proprietor for

personal use.

Bank Reconciliation Statement: This chapter would

JANUARY	FEBRUARY
TOPICS WITH LEARNING OUTCOMES	TOPICS WITH LEARNING OUTCOMES
Financial Statements with Adjustments continued	Revision: All topics with comprehensive problems and overall view of the concepts and principles of the subject.
Provisions & Reserves: This chapter would enable the student to understand : meaning and importance of provisions, concept of provisions, objectives of provisions, meaning importance and types of reserves, revenue reserve, Capital Reserve, difference between revenue reserve and Capital Reserve, general reserve and specific reserve, secret reserve, difference between reserve and provision	

\*\*\*\*\*\*\*

## **SUBJECT - ECONOMICS**

## **GENERAL LEARNING OUTCOMES**

## (Introductory Microeconomics and Statistics for Economics)

The prescribed CBSE syllabus aims to help students to

1. understand basic economic concepts

2. develop economic reasoning which can be applied in day-to-day life

3. acquire analytical skills to observe and understand economic realities

4. equip students with basic tools of Statistics to understand and analyse economic situations

5. develop an understanding that there can be more than one view on any economic issue and to argue logically with reasoning

## <u>APRIL</u>

## **1. DEFINITION OF STATISTICS**

On completion of the chapter, the students will be able to

• Define the meaning of Statistics in the singular and Plural sense

## 2. SCOPE AND FUNCTIONS OF STATISTICS

On completion of the chapter, the students will be able to

- Discuss the scope and functions of Statistics
- Appreciate the importance of statistics in Economics

## 3. PRIMARY AND SECONDARY DATA

On completion of the chapter, the students will be able to

- Distinguish between sources of data primary and secondary
- Evaluate the relevance of each kind of data in various circumstances.
- List the sources of secondary data

## MAY

## **1. CENSUS AND SAMPLING**

On completion of the chapter, the students will be able to

- Describe the concepts of Sampling
- List the methods and their relevance
- Comprehend the importance of Census of India and National Sample Survey Organisation.

## 2. ORGANIZATION OF NUMERICAL DATA

On completion of the chapter, the students will be able to

- Describe the meaning of variables
- Identify various types of Frequency Distributions and series
- Convert one series into another

## 3. SCARCITY & CENTRAL PROBLEMS OF AN ECONOMY

- Comprehend the meaning of microeconomics and macroeconomics
- Differentiate between positive and normative economics
- Explain what is an economy

## 4. CONCEPTS OF OPPORTUNITY COST

On completion of the chapter, the students will be able to

• List and describe the central problems of an economy: what, how and for whom to produce Explain the concept of opportunity cost and its relevance in economic theory

## <u>JULY</u>

1. ARITHMETIC MEAN

On completion of the chapter, the students will be able to

- solve problems using various alternative formulae
- provide interpretation for the results derived

## 2. MEDIAN AND QUARTILES

On completion of the chapter, the students will be able to

- solve problems using various alternative formulae
- provide interpretation for the results derived

## 3. DEMAND & PRICE ELASTICITY OF DEMAND

On completion of the chapter, the students will be able to

- define Demand
- differentiate between demand and market demand
- list and explain the determinants of demand
- write and describe the demand schedule
- draw the demand curve
- comprehend the slope of the demand curve
- compare movement along and shifts in the demand curve
- comprehend price elasticity of demand
- list the factors affecting price elasticity of demand
- measure the price elasticity of demand using percentage-change method

## 6. SUBMISSION OF ECO PROJECT

On completion of the project, the students will be able to

- acquire knowledge and facts about their chosen topic
- Use appropriate presentation techniques to showcase their study
- analyse, evaluate and examine the material and break information into parts by identifying motives or causes
- Make inferences and find evidence to support generalizations
- Present and defend opinions by making judgments about information, validity of ideas, etc
- Compile information together to propose alternative solutions.

## <u>AUGUST</u>

## **1. SUPPLY AND ITS PRICE ELASTICITY**

- define Supply
- differentiate between supply and market supply
- list and explain the determinants of supply
- write and describe the supply schedule

- draw the supply curve
- comprehend the slope of the supply curve
- compare movement along and shifts in the supply curve
- comprehend price elasticity of supply
- list the factors affecting price elasticity of supply
- measure the price elasticity of supply using percentage-change method

## 2. DIAGRAMMATIC PRESENTATION OF DATA (BAR AND PIE DIAGRAMS)

On completion of the chapter, the students will be able to

- Comprehend Tabular Presentation of data
- Learn Diagrammatic Presentation of Data: Geometric forms (bar diagrams and pie diagrams)
- Draw diagrams and comprehend their suitability

## 3. CONSUMER'S EQUILIBRIUM (UTILITY ANALYSIS)

On completion of the chapter, the students will be able to

- Define consumer's equilibrium –
- Explain the meaning of utility, marginal utility
- Describe and appreciate the relevance of the law of diminishing marginal utility
- State the conditions of consumer's equilibrium using marginal utility analysis.

## 4. CONSUMER'S EQUILIBRIUM (IC ANALYSIS)

On completion of the chapter, the students will be able to

- Explain the Indifference curve analysis of consumer's equilibrium
- Discuss the consumer's budget (budget set and budget line)
- Identify the preferences of the consumer (indifference curve, indifference map)
- State the conditions of consumer's equilibrium.
- Show equilibrium using figures

## **SEPTEMBER**

## 1. MODE

On completion of the chapter, the students will be able to

- solve problems using various alternative formulae
- provide interpretation for the results derived

## 2. TERM EXAM

## **OCTOBER**

## 1. CORRELATION (KARL PEARSON'S COEFFICIENT)

On completion of the chapter, the students will be able to

- comprehend the meaning and properties of Correlation
- draw scatter diagrams
- solve problems using various alternative formulae
- provide interpretation for the results derived

## **2 PRODUCTION FUNCTION**

- explain the meaning of Production Function
- differentiate between Short-Run and Long-Run Total Product, Average Product and Marginal Product
- comprehend the Returns to a Factor
- state the three phases in the law
- draw figure and describe the phases

**3. GRAPHICAL PRESENTATION OF DATA (HISTOGRAMS, POLYGONS, OGIVES, TIME SERIES GRAPHS)** On completion of the chapter, the students will be able to

- learn graphical Presentation of Data: Frequency diagrams (histogram, polygon and Ogive) and Arithmetic line graphs (time series graph)
- understand the meaning and relevance of each kind of presentation

## **NOVEMBER**

## 1. COST

On completion of the chapter, the students will be able to

- define Cost: Short run costs
- compare total cost, total fixed cost, total variable cost
- differentiate between Average cost, Average fixed cost, Average variable cost and Marginal cost
- describe the meaning of each curve and their relationships with each other
- draw the cost curves showing their relationship
- attempt numericals

## 2. REVENUE

On completion of the chapter, the students will be able to

- define TR, AR, MR
- differentiate between total, average and marginal revenue
- state the meaning of each curve and their relationship
- draw the revenue curves showing their relationship
- attempt numerical

## 3. MARKET EQUILIBRIUM UNDER PERFECT COMPETITION

On completion of the chapter, the students will be able to

- describe Perfect competition
- list its features
- comprehend the determination of market equilibrium
- understand and show the effects of shifts in demand and supply
- explain simple applications of Demand and Supply: Price ceiling, price floor.

## DECEMBER

## **1. MEASURES OF DISPERSION (STANDARD DEVIATION & VARIANCE)**

- solve problems using various alternative formulae
- provide interpretation for the results derived

## **JANUARY**

## **1. INDEX NUMBERS**

On completion of the chapter, the students will be able to

- define and compare types of Index numbers
- identify the meaning and relevance of wholesale price index, consumer price index
- appreciate the uses of index numbers
- comprehend the use of index numbers to study inflation

## **2. PROJECT REVIEWS**

#### **FEBRUARY**

- **1. PROJECT VIVA**
- 2. REVISION

\*\*\*\*\*\*\*

## **GENERAL LEARNING OUTCOMES**

The students will be able to

- 1. acquire a reasonable degree of language proficiency in English language
- 2. appreciate the various genres of texts presented in the syllabus
- 3. hone their language abilities for effective reading, writing, listening and speaking skills

APRIL	MAY
<ol> <li>The Summer of the Beautiful White Horse (Snapshots)         <ul> <li>Summarize the story in a gap-filling exercise. (Understand)</li> <li>Recall the important points of the story through a questionnaire (Remember)</li> <li>Write the character sketch of Uncle Khosrove and Mourad (Create)</li> <li>Infer the meaning of some important statements in the story writing a short note on them. (Analyze)</li> <li>Debate :Did the boys return the horse because they were conscience-stricken or because they were afraid? (Evaluate)</li> </ul> </li> <li>Childhood (Hornbill)</li> </ol>	<ol> <li>The Portrait of a Lady (Hornbill)         <ul> <li>select and extract relevant information, using reading skills of skimming and scanning</li> <li>Summarize the story 'The Portrait of a Lady' in a gap-filling exercise. (Understand)</li> <li>Recall the important points of the story through short answer questions and long answer type questions worksheet. (Remember)</li> <li>Write the character sketch of the grandmother (Create)</li> <li>Justify the title by writing a short note on it. (Evaluate)</li> <li>Inculcate Practice by being calm in adverse situations (Apply)</li> <li>Infer the meaning of metaphorical statements (Analyze)</li> </ul> </li> </ol>
<ul> <li>Identify the traits of childhood mentioned in the poem</li> <li>Infer the qualities that indicate the loss of childhood</li> <li>comprehend the difference between what is said and what is implied</li> <li>explain the use of the poetic devices in the poem</li> </ul>	<ul> <li>(Analyze)</li> <li>2. The Address (Snapshots) <ul> <li>Recall from their history lessons the atrocities faced by millions of Jewish people during the Holocaust (IInd World War)</li> <li>Recognise the recurring autobiographical elements of author's life in the story</li> <li>Compare and contrast the pre-war and post-</li> </ul> </li> </ul>
<ul> <li>3. School Notices (Writing) <ul> <li>comprehend the purpose of writing notices.</li> <li>apply the correct format while writing a notice</li> <li>recognise the kind of notices that appear for school events.</li> <li>arrange and present relevant information based on inputs provided for the notice.</li> <li>compose notices with relevant content on a variety of topics</li> </ul> </li> </ul>	<ul> <li>war life of the narrator</li> <li>Deconstruct the character of Mrs Dorling and people like her who make us question the goodness of human beings.</li> <li>Empathise with people who have witnessed war and the trauma of it.</li> <li>Identify with the various kind of changes to human life that war causes</li> <li>Evaluate the transformation that happened in the life of the Narrator during the turmoil of war.</li> <li>compose well-structured answers based on</li> </ul>

	<ul> <li>their comprehension of the lesson.</li> <li>analyse that the narrator's decision to forget the past and move on in life.</li> </ul>
<ul> <li>JULY</li> <li>1. Voice of the Rain (Hornbill) <ul> <li>grasp the theme and meaning of the poem</li> <li>interpret the title of the poem</li> <li>explain the cyclic nature of rain</li> <li>read the poem aloud with proper stress and intonation.</li> <li>discuss the theme, poetic devices, structure and rhyme.</li> </ul> </li> <li>2. Note Making (Writing) <ul> <li>select and extract relevant information, using reading skills of skimming and scanning</li> <li>summarize information from a variety of passages</li> <li>Reconstruct relevant information and arrange them coherent presentation.</li> <li>Supply suitable title and make use of abbreviations</li> </ul> </li> <li>3. We're Not Afraid to Die if We Can All Be Together (Hornbill) <ul> <li>Summarize the story in a gap-filling exercise. (Understand)</li> <li>Recall the important points of the story</li> </ul> </li> </ul>	AUGUST1. Enquiry letter & Reply (personal)- Writing• Recall the elements of a formal letter• Identify the queries to be made in the letter.• Frame questions appropriately to seek information.• Compose letters of enquiry and reply on a variety of topics.2. Albert Einstein at School (Snapshots)• Identify the reasons why Einstein was miserable at school• Derive Einstein's theory of education from the 
<ul> <li>through short answer questions and long answer type questions worksheet. (Remember)</li> <li>Learn the different parts of the ship mentioned in the story. (Remember)</li> <li>Write the character sketch of the narrator (Create)</li> <li>Justify the title by writing a short note on it. (Evaluate)</li> <li>Practice: being calm in adverse situations (Apply)</li> <li>Discovering Tut : The Saga Continues (Hornbill)</li> <li>Identify the mysteries and theories regarding the life and death of King Tut. (remember)</li> <li>compare the various processes of investigation undertaken by Carter and Zahi Hawass. (understand)</li> </ul>	<ul> <li>posters.</li> <li>apply the correct format in the poster</li> <li>recognise the kind of posters that appear for general events.</li> <li>Create visual inputs to enhance the aesthetic appeal of the poster.</li> <li>arrange and present relevant information based on inputs provided for the poster.</li> <li>compose posters with relevant content on a variety of topics</li> </ul>

analyze the significance of the Pharoah's curse (evaluate)

<ul> <li>enumerate the difficulties that arose at the time of investigation (remember)</li> <li>assess how the lifestyle, beliefs and religious background of Egypt vary from modern times.(create)</li> </ul>	
<ol> <li>Speech (Writing)         <ul> <li>understand the language of propaganda and persuasion</li> <li>use persuasive language in defending one's opinion</li> <li>indentify points for the introduction, body and conclusion</li> <li>choose words and phrases to make the content effective</li> </ul> </li> <li>Laburnum Top (Hornbill)         <ul> <li>Know about the poet and his contributions</li> <li>list examples of onomatopoeia, simile, metaphor</li> <li>paraphrase the poem</li> <li>describe the symbiotic relationships in nature</li> </ul> </li> <li>Term 1 Exams</li> </ol>	<ol> <li>Silk Road (Snapshots)         <ul> <li>Trace the author's journey which from Ravu to Mt. Kailash.</li> <li>Explain the significance of kora.</li> <li>Describe the sights he sees on the way.</li> <li>Illustrate the expertise demonstrated by Tsetan with relevant examples.</li> <li>Infer why the author was not impressed to witness the beauty of Lake Mansarovar</li> <li>Recognize the health difficulties faced by the author and effectiveness of the remedy</li> <li>Discuss why the author considered Norbu to be an ideal companion.</li> </ul> </li> <li>The Ailing Planet: The Green Movement's Role (Hornbill)         <ul> <li>select and extract relevant information, using reading skills of skimming and scanning</li> <li>identify the reasons stated by the author for the steady deterioration of the planet</li> <li>explain the comparison of the earth to a patient in declining health</li> <li>list the principal biological systems of the earth and state the reasons for their decline</li> <li>justify the author's view of correlating growing population to the possible demise of the planet.</li> <li>Create awareness about the need for concerted action towards sustainable development.</li> </ul> </li> <li>The Browning Version (Snapshots)         <ul> <li>List the personality traits of Mr.Crocker-Harris that emerge from the conversation between Frank and Taplow.</li> <li>Compare the personalities of the tow masters and how the students view them.</li> <li>Infer Taplow's personal views about Mr.Crocker-Harris</li> <li>Analyse the title of the play</li> <li>Role play the characters with proper delivery of dialogues</li> </ul> </li></ol>

	<ul> <li>4. Enquiry Letters &amp; Reply (Business)- Writing <ul> <li>Recall the elements of a formal letter</li> <li>Identify the queries to be made in the letter.</li> <li>Frame questions appropriately to seek information.</li> <li>Compose letters of enquiry and reply on a variety of topics.</li> </ul> </li> </ul>
<ul> <li>NOVEMBER</li> <li>1. Letters Placing Order (Personal &amp; Business)- Writing <ul> <li>Recall the elements of a formal letter</li> <li>Identify relevant information while placing orders</li> <li>Frame statements appropriately for a business transaction.</li> <li>Compose letters to place orders for a on a variety of goods and services.</li> </ul> </li> <li>2. General Notices - Writing <ul> <li>Comprehend the purpose of writing notices.</li> <li>apply the correct format while writing a notice</li> <li>recognise the kind of notices that appear for general events.</li> <li>arrange and present relevant information based on inputs provided for the notice.</li> <li>compose notices with relevant content on a variety of topics</li> </ul> </li> </ul>	<ul> <li>DECEMBER</li> <li>1. Complaint letters &amp; Cancellation Letters - Writing <ul> <li>Recall the elements of a formal letter</li> <li>Identify relevant information while registering complaints.</li> <li>Frame statements appropriately to convey dissatisfaction with products or services.</li> <li>Suggest measure to remedy the situation.</li> <li>Compose letters to complaint about a variety of goods and services in a suitable manner.</li> </ul> </li> <li>2. Mother's Day (Snapshots) <ul> <li>Identify the elements of style such as humour and irony in the play</li> <li>Explore and evaluate features of characters - Mrs. Pearson and Mrs. Fitzgerald</li> <li>explain why Mrs. Pearson could never stand up to her family.</li> <li>discuss the effectiveness of the methods used by Mrs. Fitzgerald.</li> <li>Role play the characters with proper delivery of dialogues</li> <li>enumerate the oral and visual elements of drama</li> </ul> </li> <li>3. Birth (Snapshots) <ul> <li>Recall the significance of the birth of the baby for the Morgans</li> <li>Discuss the conflict in Andrew's mind regarding his relationship with Christine.</li> <li>Explain the unusual procedure followed by Andrew ro revive the baby</li> <li>Justify the title of the story</li> <li>Relate the experiences narrated in the story to their own.</li> </ul> </li> </ul>

JANUARY	FEBRUARY
1. A Photograph (Hornbill)	1. Formal & Informal Invitations and Replies
<ul> <li>to paraphrase the poem 'A Photograph' by</li> </ul>	(Writing)
Shirley Toulson (Remember)	• Comprehend the purpose of writing informal
<ul> <li>to identify the figure of speech used in the</li> </ul>	invitations and their replies.
poem (Remember)	<ul> <li>apply the correct format while writing an</li> </ul>
<ul> <li>to justify the title of the poem (Evaluate)</li> </ul>	invitation
<ul> <li>to analyse the important phrases in the poem (Analyse)</li> </ul>	<ul> <li>recognise the kind of invitations given out to people depending on their relationship with the writer.</li> </ul>
2. Debate (Writing)	<ul> <li>arrange and present relevant information</li> </ul>
<ul> <li>understand the language of propaganda and</li> </ul>	based on inputs provided for the invitation.
persuasion	• compose invitations with relevant content for
<ul> <li>present persuasive arguments to defend one's opinion</li> </ul>	a variety of events
<ul> <li>indentify points for the introduction, body</li> </ul>	2. Commercial Advertisements (Writing)
and conclusion	<ul> <li>comprehend the purpose of drafting ads.</li> </ul>
<ul> <li>choose words and phrases to make the</li> </ul>	<ul> <li>apply the correct format in the ad</li> </ul>
content effective	<ul> <li>recognise the kind of ads that appear for</li> </ul>
	various products and services
3. Job Application (Writing)	Create visual inputs to enhance the aesthetic
Discuss the significance of the drafting a good	appeal of the ad.
Job application	arrange and present relevant information
List the essential qualities and pieces of	based on inputs provided for the ad.
Information that are necessary for the job	<ul> <li>compose add with relevant content on a sector of tension</li> </ul>
application	variety of topics
Frame statements appropriately for a job     application	2 Povision for Final Torm Examination
application • Draft the big data with information in the	S. Revision for Final Term Examination
• Drait the bio-data with mornation in the	
<ul> <li>Compose job applications for a on a variety of</li> </ul>	
nosts	

- THE SYLLABUS IS SUBJECT TO CHANGE ACCORDING TO THE INSTRUCTIONS THAT COME LATER DURING THE ACADEMIC SESSION BY THE CBSE.
- ANY LESSON THAT IS NOT COMPLETED WITHIN THE STIPULATED TIME WILL BE CARRIED FORWARD TO THE NEXT MONTH.

## ASSESSMENT PLANNER

Periodic Test - 1	SYLLABUS	
	Comprehension, Childhood, The Portrait of a Lady, The Address, The	
40 Marks	Summer of the Beautiful White Horse, Grammar	
Half Yearly Exam	SYLLABUS	
	Comprehension, Note Making	
Theory / Prac	Writing- Notice (School), Poster, Enquiry letters (personal ) and reply,	
80/20	Speech, Grammar (determiners and tenses)	
	Literature-Portrait of a Lady, Childhood, Summer of the Beautiful White	
	Horse, The Address, Ranga's Marriage, Voice of the Rain, We are not Afraid	
	to die, Discovering Tut, Albert Einstein at school	
	SYLLABUS	
Periodic Test - 2		
	Comprehension, Note making, Grammar, General Notice, Letter -Placing	
40 Marks	order & reply, Speech, Laburnum Top, Silk Road, The Ailing Planet, The	
	Browning Version.	
Annual Exam	SYLLABUS	
Theory / Prac	Entire Syllabus (except Job Application, Informal Invitations & Reply,	
80/20	Commercial Advertisements)	

SUBJECT - PSYCHOLOGY				
MONTH	ΤΟΡΙϹ	LEARNING OUTCOMES	Teaching Methods and Aids to be used	ASSIGNMENTS (Class/Home) Assessment
<u>Apr-20</u>	UNIT 1 : What is Psychology	<ol> <li>The students will be able to understand Psychology as a scientific discipline.</li> <li>The students will be able to state the growth of the discipline in India and the world.</li> <li>The students will be able to know the different fields of psychology, its relationship with other disciplines, and professions.</li> </ol>	Explanation of concepts by providing notes from text book, research articles & through web links and videos .	Asignment Questions will be given for homework .
May-20	UNIT 2 :Methods of Enquiry in Psychology	<ol> <li>The students will be able to explain the goals and nature of psychological enquiry.</li> <li>The students will be able to understand different types of data used by psychologists.</li> <li>The students will be able to describe observation method of enquiry.</li> <li>The students will be able to describe experimental methods of psychological enquiry,</li> <li>The students will be able to describe important methods of psychological enquiry,</li> <li>The students will be able to understand the methods of analysing data, and</li> <li>The students will be able to learn about the limitations of psychological enquiry and ethical considerations.</li> </ol>	Explanation of concepts by providing notes from text book, research articles & through web links and videos .	Asignment Questions will be given for homework .

Jul-20	Unit-V:	1. The students will be	The topics will	Asignment
	Sensory,	able to understand the	be explained	Questions will
	Attentional,	nature of sensory	with the help	be given for
	and	processes,	of ppt trough	homework .
	Perceptual	2. The students will be	Google	
	Processes	able to explain the	classroom.	
		processes and types of	The study	
		attention .	material will	
		3. The students will be	also be	
		able to analyse the	uploaded for	
		problems of form and	the students.	
		space perception.		
		4. The students will be		
		able to reflect on		
		sensory, attentional and		
		perceptual processes in		
		everyday life.		
Aug-20	Unit-VI:	1)The students will be able	The topics will	Asignment
	LEARNING-	to describe the nature of	be explained	Questions will
		learning.	with the help	be given for
		2)The students will be able	of ppt trough	homework .
		to explain different	Google	
		types of learning and	classroom.	
		the procedures used in	The study	
		different types of	material will	
		learning.	also be	
		3) The students will be	uploaded for	
		able to explain the	the students.	
		determinants of learning.		
Sep-20	Mid term Exam	inations		
Oct-20	Unit-VII:	1The students will be able	The topics will	Asignment
	Human	to understand the nature	be explained	Questions will
	Memory	of memory.	THROUGH	be given for
		The students will be able	Google	homework .
		to between different types	classroom and	
		of memory.	study material	
		The students will be able	will also be	
		to understand the nature	uploaded for	
		and causes of forgetting.	the students.	
		The students will be able		
		to learn various strategies		
		for improving memory.		

Nov-20	Unit III: The Bases of Human Behaviour	<ol> <li>The students will be able to understand the evolutionary nature of human behaviour.</li> <li>The students will be able to relate the functions of nervous system and endocrine system to behavior.</li> <li>The students will be able to understand role of culture in shaping human behaviour.</li> <li>The students will be able to describe the processes of enculturation, socialisation, and</li> </ol>	The topics will be explained and study material will be uploaded for the students.	Asignment Questions will be given for homework .
		acculturation.		
Dec-20	Unit IV: Human Development	<ol> <li>1)The students will be able to describe the meaning and process of development.</li> <li>2)The students will be able to explain the influence of heredity, environment and context on human development.</li> <li>3)The students will be able to identify the stages of development and describe the major characteristics of infancy, childhood, adolescence, adulthood and old age.</li> </ol>	The topics will be explained and study material will be uploaded for the students.	Asignment Questions will be given for homework .
01-Jan	Revision for an	nual Examinations		
Feb-21	Annual Exams		1	

## LEARNING OUTCOMES

- 1. Develop clear visualization and understanding of geometric shapes, forms & proportion of objects.
- 2. Develop the skill of expressing real life objects in the professional language of engineers.
- 3. Familiarizing with various drawing instruments including set squares, compass, mini drafter, roller scales etc. and acquire speed and accuracy in their use.
- 4. Develop a clear understanding of plane and solid Geometry so as to apply the same in relevant practical fields such as technology and industry.

APRIL	MAY
<ol> <li>Introduction to Engineering Graphics – importance of subject, handling and proper use of instruments,</li> <li>Lettering of drawing sheets</li> <li>Drawing lines and angles</li> </ol>	<ol> <li>Drawing other rectilinear 2D figures such as triangles, quadrilaterals, regular polygons such as pentagons and hexagons.</li> <li>Circles</li> <li>Reduced and enlarged figures</li> </ol>
<b>Learning Outcomes:</b> Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Get acquainted with the instruments such as set squares, compass, dividers, various types of pencils. Acquire speed and accuracy in use of drawing instruments.	<b>Learning Outcomes:</b> Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Get acquainted with the instruments such as set squares, compass, dividers, various types of pencils. Acquire speed and accuracy in use of drawing instruments.
JULY	AUGUST
<ol> <li>Drawing special curve such as the ellipse.</li> <li>Orthographic projection of a point, line, regular 2D figures like triangle, square, pentagon and hexagon.</li> </ol>	<ol> <li>Orthographic projection of regular solids such as prisms and pyramids.</li> </ol>
<b>Learning Outcomes:</b> Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Acquire speed and accuracy in use of drawing instruments.	<b>Learning Outcomes:</b> Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Acquire speed and accuracy in use of drawing instruments. Develop the skill of expressing real life objects in the professional language of engineers.
<u>SEPTEMBER</u>	<u>OCTOBER</u>
<ol> <li>Sectioning of solids, top view, front view and true shape of section of various solids such as cone, prism and pyramid.</li> </ol>	<ol> <li>Orthographic projection of simple machine blocks</li> </ol>
<b>Learning Outcomes:</b> Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Acquire speed and accuracy in use of drawing instruments.	<b>Learning Outcomes:</b> Develop a clear understanding of plane and solid Geometry so as to apply the same in relevant practical fields such as technology and industry.

NOVEMBER	DECEMBER	
<ol> <li>Development of surfaces of various solids such as cube, Pentagonal Prism, Triangular Pyramid, Square Pyramid etc.</li> </ol>	<ol> <li>Introduction to Isometric projection. Planar figures, frustums and single objects.</li> </ol>	
<b>Learning Outcomes:</b> Develop a clear understanding of plane and solid Geometry so as to apply the same in relevant practical fields such as technology and industry. Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Acquire speed and accuracy in use of drawing instruments.	Learning Outcomes: Develop a clear understanding of plane and solid Geometry so as to apply the same in relevant practical fields such as technology and industry. Enhancing the power to visualize, feel the shapes of various objects in their consciousness. Acquire speed and accuracy in use of drawing instruments.	
JANUARY	FEBRUARY	
1. Practical:	Revision	
<ul> <li>(a) Drawing Top View / Plan of a house or a flat</li> <li>(b) Constructing Ellipse using concentric circles, intersecting arcs and intersecting lines methods</li> <li>(c) Construction of an Ellipse using a Trammel</li> </ul>	<b>Learning Outcomes:</b> Acquire speed and accuracy in use of drawing instruments.	
2. Revision of entire syllabus		
<b>Learning Outcomes:</b> Acquire speed and accuracy in use of drawing instruments.		

## ASSESSMENT PLANNER

Periodic Test - 1	SYLLABUS	
40 Marks	<ol> <li>Drawing of lines and angles etc.</li> <li>Drawing of rectilinear 2D figures such as triangles, Quadrilaterals, regular polygons such as pentagons and hexagons.</li> <li>Circles and tangents</li> <li>Reduced and enlarged figures</li> </ol>	
Periodic Test - 2	SYLLABUS	
40 Marks	<ol> <li>Special curve such as the Ellipse</li> <li>Orthographic projection of a point, line, regular 2D figures like triangle, square, pentagon and hexagon.</li> <li>Orthographic projection of regular solids such as prisms and pyramids.</li> <li>Sectioning of solids, top view, front view and true shape of section of various solids such as cone, prism and pyramid.</li> <li>Orthographic projection of simple machine blocks</li> </ol>	

Half Yearly Exam	SYLLABUS	
	1. Drawing lines and angles etc.	
Theory / Practical	2. Drawing other rectilinear 2D figures such as triangles, Quadrilaterals,	
70/30	regular polygons such as pentagons and hexagons.	
	3. Circles and tangents	
	4. Reduced and enlarged figures	
	5. Special curves such as Ellipse, Parabola, Involute, cycloid and Helix.	
	6. Orthographic projection of a point, line, regular 2D figures like triangle,	
	square, pentagon and hexagon.	
	7. Orthographic projection of regular solids such as prisms and pyramids.	
Annual Exam	SYLLABUS	
	1. Drawing lines and angles etc.	
Theory / Practical	2. Drawing other rectilinear 2D figures such as triangles, Quadrilaterals,	
70/30	regular polygons such as pentagons and hexagons.	
	3. Circles and tangents	
	4. Reduced and enlarged figures	
	5. Special curve such as Ellipse.	
	6. Orthographic projection of a point, line, regular 2D figures like triangle,	
	7 Orthographic projection of regular solids such as prisms and pyramids	
	8 Sectioning of solids ton view front view and true shape of section of	
	various solids such as cone prism and pyramid	
	9. Orthographic projection of simple machine blocks	
	10. Development of surfaces of various solids such as cube. Pentagonal Prism	
	Triangular Pyramid. Square Pyramid etc.	
	11. Isometric projection of planar figures, frustums and single solids.	
	12. Practical:	
	(a) Making of Pentagonal Prism using card paper.	
	(b) Drawing Top View / Plan of a house or a flat	
	(c) Constructing Ellipse by concentric circles, intersecting lines and	
	intersecting arcs methods.	
	(d) Construction of an Ellipse using a Trammel.	

## **SUBJECT - BIOLOGY (044)**

## <u>APRIL</u>

**Unit-III Cell: Structure and Function** 

Chapter-8: Cell-The Unit of Life

Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus

## **LEARNING OUTCOMES:**

Students will be able to:-

- 1. State the postulates of cell theory.
- 2. Differentiate between PROKARYOTIC & EUKARYOTIC CELL.
- 3. Draw, understand & explain the composition, function of all the organelle seen in the CELL.
- 4. Explain the structure of cilia, flagella & centrioles
- 5. Explain & draw the Ultra Structure & function of Nucleus.

## MAY

**Unit-I Diversity of Living Organisms** 

## **Chapter-1: The Living World**

What is living? Biodiversity; Need for classification; three domains of life; concept of species and taxonomical hierarchy; binomial nomenclature.

## **LEARNING OUTCOMES:**

Students will be able to: -

- 1. Explain the characteristics features of LIVING organism .
- 2. Interpret why there is the need to Classification system.
- 3. Elaborate the type of taxonomic hierarchy in which the classification system is written.
- 4. Explain binomial Nomenclature system for naming an organisms.

## **Chapter-2: Biological Classification**

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.

## **LEARNING OUTCOMES:**

## STUDENTS WILL BE ABLE TO:

- 1. Explain the 5 kingdom Classification system in detail.
- 2. Elaborate the various salient features & their Classification observed in major Phylum.

## Chapter-3: Plant Kingdom

Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta and Gymnospermae. (salient and distinguishing features and a few examples of each category).

## **LEARNING OUTCOMES :**

STUDENTS will be able to:-

- 1. Elaborate on the various salient features involved in the Plant kingdom.
- 2. Examples for further understanding are used.

## <u>JULY</u>

## **Chapter-4: Animal Kingdom**

Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and distinguishing features of a few examples of each category). (No live animals or specimen should be displayed.)

## **LEARNING OUTCOMES:**

STUDENTS will be able to :-

- 1. Differentiate between , Invertebrates & Vertebrates .
- 2. Elaborate on the various features & classification of animals .
- 3. Explain the Classification System for CHORDATA , in details

**Unit-II Structural Organization in Animals and Plants** 

**Chapter-5: Morphology of Flowering Plants** 

Morphology of inflorescence and flower, Description of 01 family: Solanaceae or Liliaceae (to be dealt along with the relevant experiments of the Practical Syllabus).

## **LEARNING OUTCOMES:**

STUDENTS will be able to:-

- **1.** Define Inflorescence.
- 2. Distinguish between Racemose & Cymose Inflorescence.
- 3. Elaborate the important terms / definitions used in Flower Description.
- 4. Interpret the floral description done for family: Solanaceae.

## <u>AUGUST</u>

## **Chapter-7: Structural Organisation in Animals**

Animal tissues.

## **LEARNING OUTCOMES:**

STUDENTS will be able to:-

1. Differentiate in the various tissues found in the Animals along with their Diagram, structure & composition.

## Chapter-9: Biomolecules

Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes- types, properties, enzyme action.

## **LEARNING OUTCOMES:**

STUDENTS Will be able to:-

- 1. Differentiate between Micro & Macro molecules.
- 2. Elaborate the structure & function of Protein.
  - 3. Elaborate the structure & function of Carbohydrates.
  - 4. elaborate the structure & function of Lipids, Nucleic Acids.
- 3. Explain the enzyme mechanism, its types & various other enzymatic action.

## Chapter-10: Cell Cycle and Cell Division

Cell cycle, mitosis, meiosis and their significance

## **LEARNING OUTCOMES:**

STUDENTS will be able to: -

- 1. Explain the Cell cycle & its phases.
- 2. Draw & explain the various stages involved in MITOSIS.
  - 3. DRAW & explain the various stages involved in Meiosis & write its significance.

## **SEPTEMBER**

## Unit-IV Plant Physiology

**Chapter-15: Plant - Growth and Development** 

Growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA. Unit-V Human Physiology

## **LEARNING OUTCOMES :**

STUDENT will be able to : -

- 1. Define growth , development in a definite mannaer .
- 2. Explain the functions , deficiency symptoms / diseases see for Auxin , Gibberellin , Cytokinin , Ethylene , ABA is done in detailed .

## **OCTOBER**

**Chapter-13: Photosynthesis in Higher Plants** 

Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.

## **LEARNING OUTCOMES :**

STUDENTS will be able to :-

- 1. Understand & explain the mechanism used in by the mesophyll leaf for photosynthesis .
- 2. Enumerate the light reaction & dark reaction pathways .
- 3. Differentiate between Cyclic & Non cyclic photophosphorylation .
- 4. State & explain the Chemiosmotic Hypothesis .
- 5. State & explain the process of Photo respiration .
- 6. Differentiate between C3 & C4 pathways
- 7. Explain the factors affecting rate of photosynthesis .

## **Chapter-14: Respiration in Plants**

Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient

## **LEARNING OUTCOMES :**

STUDENTS will be able to :-

- 1. Distinguish between aerobic & Anaerobic respiration .
- 2. Explain the process of GLYCOLYTIC PATHWAY IN CELLS.
- 3. Elucidate the TCA Cycle & Electron Transport system in mitochondria.
- 4. Calculate the number / amount of ATP RELEASED / USED per cycle .
- 5. Explain the Amphibolic pathways & respiratory quotients .

## **NOVEMBER**

## Unit-V Human Physiology

**Chapter-17: Breathing and Exchange of Gases** 

Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.

## **LEARNING OUTCOMES :**

STUDENTS will be able to :-

- 1. Differentiate between different respiratory organs observed in animals .
- 2. Explain & enumerate the Human Respiratory System explaining the breathing mechanism .
- 3. Define respiratory volumes .
- 4. Discuss & elucidate the various Respiratory disorders observed .

## **Chapter-18: Body Fluids and Circulation**

Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system hypertension, coronary artery disease, angina pectoris, heart failure.

## **LEARNING OUTCOMES :**

STUDENTS will be able to :-

- 5. Give the composition of the Blood
- 6. Differentiate between the various blood groups seen .
- 7. Explain the clotting of blood mechanism in humans .
- 8. Elaborate & draw the structure of Human Heart .
- 9. Define cardiac cycle , cardiac output , ECG , Double Circulation & cardiac activity .
- 10. Elucidate the disorders related to Circulatory system .

#### DECEMBER

**Chapter-19: Excretory Products and their Elimination** 

Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.

## **LEARNING OUTCOMES:**

STUDENTS will be able to :-

- 1. Difference between . Ureotelic , Uricotelic & ammonotelic organisms .
- 2. Elaborate the Excretory System of humans .
- 3. Explain the urine formation mechanism . & also the Renin-Angiotensin Mechanism in blood.
- 4. Explain the disorders related to the Excretory systems .

#### Chapter-20: Locomotion and Movement

Skeletal muscle, contractile proteins and muscle contraction.

**LEARNING OUTCOMES:-**

STUDENTS will be able to :-

- 1. Explain the composition of skeletal muscles .
- 2. Give the structure & composition og the contractile proteins.
- 3. Explain the sliding filament Theory of muscle contraction .

#### JANUARY / FEBRUARY

**Chapter-21: Neural Control and Coordination** 

Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.

## **LEARNING OUTCOMES :**

STUDENTS will be able to :-

- 1. Explain the CNS system better .
- 2. Differentiate between CNS & PNS system better .
- 3. Explain the generation of nerve impulse in an Axon .

## **Chapter-22: Chemical Coordination and Integration**

Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease. Note: Diseases related to all the human physiological systems to be taught in brief.

## **LEARNING OUTCOMES :-**

STUDENTS will be able to :-

- 4. Differentiate between various hormonal function & composition of endocrine glands in human body .
- 5. Explain the role of Hormones as messengers & regulators .
- 6. Enumerate the various diseases related to Hormonal imbalances in the body will be discussed

#### ASSESSMENT PLANNER 2020-2021

PA 1	SYLLABUS
40 MARKS	* Cell: the unit of life.
	<ul><li>The living world .</li><li>Biological Classification.</li></ul>
PA2	SYLLABUS.
40 MARKS	PHOTOSYNTHESIS IN HIGHER
	PLANTS.
	RESPIRATION IN PLANTS
SA1/ HALF	* PA 1 SYLLABUS +
THEORY / PRACTICAI	L * plant
	kingdom
	Animal kingdom
70/30	* morphology of flowering plants
	Biomolecules .
	<ul> <li><u>Cell Cycle &amp; Cell Division .</u></li> <li><u>Structural organization of animals .</u></li> <li><u>Plant growth Hormones ,</u></li> </ul>
SA2	FULL SYLLABUS TO BE STUDIED .

\*\*\*\*\*\*

## **SUBJECT - BUSINESS STUDIES**

APRIL- CHAPTER 1 EVOLUTION AND FUNDAMENTALS OF BUSINESS LEARNING OUTCOMES:

To acquaint the history of trade and commerce in India, Understand the meaning of business with special reference to economic and non economic activities, Discuss the characteristics of business, Understand the concept of business, profession and employment, Differentiate between business, profession and employment, Appreciate the economic and social objectives of business, Examine the role of profit in business, Understand the broad categories of business activities, Describe the various types of industries, Discuss the meaning of Commerce, Trade and Auxiliaries to Trade, Examine the role of Commerce and Trade, Understand the concept of risk and examine the nature and causes of business risks.

MAY- CHAPTER-2 FORMS OF BUSINESS ORGANISATION LEARNING OUTCOMES:

List the different forms of business organisation and understand their meaning, Identify and explain the concept, merits and limitations of sole proprietorship, Identify and explain the merits and limitations of partnership firm, Understand the types of partnership, State the need for registration of a partnership firm, Discuss the types of partners, Identify and explain the concept, merits and limitations of cooperative societies, Understand the types of cooperative societies, Define and explain the merits and limitations of private and public companies, Understand the meaning of one person company, Distinguish between private company and public company, Highlight the stages in the formation of a company, Discuss the important documents used in the various stages in the formation of a company.

**JULY- CHAPTER 3** 

PRIVATE, PUBLIC AND GLOBAL ENTERPRISES CHAPTER 4 BUSINESS SERVICES LEARNING OUTCOMES

Develop an understanding of Private sector and Public sector enterprises, Identify and explain the features, merits and limitations of different forms of public sector enterprises, Understand the meaning and types of Business Services, Develop an understanding of different types of bank account, Develop an understanding of different types of services provided by banks, Recall the concept of insurance, Understand the various principles of insurance and Understand the meaning of different types of insurance.

AUGUST- CHAPTER 5 EMERGING MODES OF BUSINESS

#### LEARNING OUTCOMES

Give the meaning of e-business, Discuss the scope of e-business, Appreciate the benefits of ebusiness, Distinguish e-business from traditional business, Understand the concept of outsourcing, Examine the scope of outsourcing, Appreciate the need of outsourcing.

#### **SEPTEMBER- CHAPTER 6**

SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS

#### **LEARNING OUTCOMES**

State the concept of social responsibility, Examine the case for social responsibility, Identify the social responsibility towards different interest groups, Appreciate the role of business in environment protection, State the concept of business ethics.

**OCTOBER- CHAPTER 7** 

SOURCES OF FINANCE

LEARNING OUTCOMES

State the meaning ,nature and importance of Business Finance. Classify the various sources of finance into owners funds, Understand the meaning of Global depository receipts, American depository receipts and Indian depository receipts, Discuss the concept of debentures, loans from financial Institutions and commercial banks, trade credit and inter corporate deposits, distinguish between owner's funds and borrowed funds.

NOVEMBER- CHAPTER- 8 SMALL BUSINESS

#### LEARNING OUTCOMES

Understand the concept of Entrepreneurship Development, Intellectual Property Rights, Discuss the role of small business in India, Appreciate the various government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural and backward areas.

DECEMBER- CHAPTER- 9 INTERNAL TRADE

#### LEARNING OUTCOMES

State the meaning and types of internal trade, Appreciate the services of wholesalers and retailers, Explain the different types of retail trade, Highlight the distinctive features of departmental stores, chain stores and mail-order houses.

JANUARY- CHAPTER-10 INTERNATIONAL TRADE

#### LEARNING OUTCOMES

Understand the concept of international trade, Descibe the scope of International trade to the nation and business firms, State the meaning of World Trade Organisation, Discuss the objectives of World Trade Organisation in promoting international trade.

#### **FEBRUARY- REVISION**

## **SUBJECT - POLITICAL SCIENCE**

	UNIT 1 CONSTITUTION APRIL			
SNO	ACTION VERB	OBJECTIVE	CONDITION	
		The student will be able to:		
1	Understand	The making of the Constitution	By enacting the process after studying the lesson.	
2	Identify	The philosophy behind it	By defending the principles enshrined in the Constitution after studying the lesson	
3	Distinguish	Between Fundamental Rights and Directive Principles of State Policy	By applying the information acquired to concrete situations after studying the lesson.	
4	Describe	The process of amendment	By getting clarity about the different types of majorities required and the reason behind it.	
		UNIT 2 ELECTION AND REPRESENTATIO MAY	N	
1	Distinguish	Between different methods of representation followed in the worl	By using examples d from elections in India	
2	Suggest	Electoral reforms needed in India	By realizing the need to be proactive after studying this topic	
3 Evaluate		The importance of free and fair elections in a democracy	By understanding their role as citizens after studying this chapter.	
UNIT 3 EXECUTIVE MAY				
1	Define	Parliamentary and presidential forms of governments	By identifying features of both systems, they will be able to classify governments	
2	Recognize	The difference between the political and permanent executive	By enabling them to know about a career option and encouraging them to aspire for the civil services.	

3	Analyze	The relation between the Prime Minister and President in India	By getting a critical understanding of a concept, helping them to compare between the Indian and American systems.		
4	Comprehend	The many gaps between theory and practice	By linking theory with practice and debating on issue after studying this lesson.		
5	Make	Film/power-point presentation on any topic	By doing a Group Activity		
		UNIT 4 LEGISLATURE			
		MAY			
1	Differentiate	Between unicameral and bicameral legislatures	By identifying the merits and demerits of both types of legislatures.		
2	Examine	The role played by Parliament	By discussing the functioning of government in the light of information gained.		
3	Understand	The role played by the parliament	By organizing a Mock Parliament		
	UNIT 5 JUDICIARY JULY				
1	Evaluate	The need for an independent judiciary	By helping students to comprehend means adopted to make the judiciary independent and how.		
2	Illustrate	The structure of the judiciary and its functions.	By enabling them to comprehend the fact that it was a single integrated one.		
3	Discover	The role played by judicial activism	By categorizing the negative and positive features of judicial activism after this lesson is taught.		
		UNIT 6 FEDERALISM	JULY		
1	Assemble	Prior learnt information to identify features of government they are familiar with.	By classifying this information into unitary and federal features.		
2	Analyze	Information to recognize that the Indian system of federalism has a unitary bias.	By helping students to identify issues of conflict from magazines and newspapers and discuss them.		
3	comprehend	The ideas of cooperative federalism and competitive federalism.	By giving them the capacity to extend their information and identify them from contemporary politics.		

UNIT 7				
LOCAL GOVERNMENT				
1	Pocall	AUGUSI Brovious information on local	By anabling students to anact	
-	Recall	governments and need for local	a gram sabha situation.	
		governments	- 8	
2	Discover	Changes incorporated by the 73 <sup>rd</sup> and 74 <sup>th</sup>	By enabling students to gauge whether	
		Amendment Acts	the local bodies are successful or	
			not.	
		SEPTEWBER		
1	Explain	The meaning of political theory	By emphasizing the	
			importance of ideas of	
			political philosophers to	
			human activity.	
2	Explain	The importance of political theories	By justifying human actions	
			using ideas learnt and	
			evaluating situations using the	
		UNIT 9 AND 10	kilowieuge.	
		LIBERTY AND EQUALITY		
		OCTOBER		
1	Interpret	The ideas of liberty and equality	By enabling them to	
			discover the idea from a	
			perspective whereby they	
			are	
			able to analyze situations	
•			from their own lives	
2	Combine	The two ideas of liberty and equality	By providing them	
			a proader	
			ideas	
3	Co-relate	The two ideas from real situations	By presenting street plays.	
•			cartoons, short films, poetry	
			etc. to project these ideas.	
UNIT11 AND 12 JUSTICE AND RIGHTS				
NOVEMBER				
1	Synthesize	The ideas of justice with equality	By applying knowledge	
		and liberty	gained earlier	
			to debate issues of	
			conflict they see around	
2	Classifi	Turner of vields	tnem.	
2	Classify	i ypes of rights	By discussing their	
			relevance to	
CITIZENSHIP AND				
		NATIONALISM		

DECEMBER				
1	Evaluate	The ideas of citizenship and nationalism	By helping them to relate this information to their role as a citizen.	
2	Differentiate	Between citizens and non-citizens and refugees and also the ideas of national citizenship and global citizenship	Making a project on these issues to understand the implications of these ideas.	
		UNIT 15		
		SECULARISM JANUARY		
1	Justify	The need to be secular in a multi- cultural society	By undertaking a study of different religions to identify points common to them to build up understanding.	
2	Appreciate	The richness of the heritage and culture of India.	By comparing India with states that do not allow diversity to flourish by following policies of assimilation using a uniform culture,	
3	Analyze	The reason why Constitution-makers chose to be secular.	By reading debates that took place in the Constituent Assembly and discussing them.	
		UNIT 16	Ū	
		DEVELOPMENT		
1	Deceribe	FEBRUARY	Dy analyzing why India abase	
T	Describe	The different methods of development	the idea of a mixed economy.	
2	Distinguish	Between the different methods of development	By discussing the merits and demerits of the methods.	
3	Evaluate	Which would be more relevant to India and	By debating the issue	
4.	Create	A Project on a topic of their choice	under the supervision of the teacher.	

## **SUBJECT - HISTORY**

Learning Outcomes

## APRIL

From the beginning of time

- 1. Students should know the periodisation of history Natural , Social \_ Economic and Political .
- 2. Students should understand about human evolution.

3. It is important for young learners to understand how communication and modern languages came into existence.

4. Students should also know about the importance of agriculture to start a settled life.

Writing and City Life

1. What factors were responsible for the beginning of first human civilization in modern day Iraq between the Euphrates and Tigris river.

2. How ancient Sumerians developed Astronomy .Dating around 1800 BCE are tablets with multiplication and division tables , square and square root tables and tables of compound interest as well as modern calendar the division of year in 12 months according to the revolution of the moon around the earth of the moon around earth .

3. How Mesopotamia developed the first script in the world .

4. The vibrant urban life that gave birth to a society establishing trading link as far as Indus Valley Civilization or Meluha as it was known in Mesopotamia .

## MAY

An Empire Across Three Continents

1. Learners should know the role played by the Roman Enpire in truly connecting the East and West.

2. Learners must know some of the earliest and worst slavery by the Romans on an Industrial scale.

3. Students must also know the emphasis on literacy in the Roman State .

4. It is important to understand the large scale economic expansion in the European Continent by establishing factories and mines.

## **Central Islamic Lands**

1. It is necessary to know about the rise and expansion of Islam .

2. Students must know about the social life of Muslims and Non Muslims respectively in the Caliphate .

3. How many great Islamic scholars rose to prominence and world fame during Abbasid period .

4. The important role played by Arabs in a post Roman world to diffuse knowledge by translating works of Greeks ,Persians ,Romans and Indians.

## JULY

The Three Orders

1. Students must know about the life under the theocratic rule of Catholic Church .

2. How the European society was exploited on the basis of the Three Orders in the Middle Ages.

3. The advancements made by Europeans in Agricultural Technology in the form of Iron Tipped plough, and Crop Rotation.

4. It is very important to know about the political changes that came in the end of the middle ages and gave birth to nationalism and end of feudal order.

## AUGUST

**Changing Cultural Traditions** 

1. The beginning of Renaissance in Italian City States which led to free thinking.

2. The revival of Italian City states and their interest in the knowledge of ancient Greek and Romans.

3. How universities became a centre of free speech , thinking and rational ideas.

4. How humanism became topic of interest for those who believed in the potential and capability of human being as a divine being.

## SEPTEMBER

**The Industrial Revolution** 

- 1. The reason behind the beginning of modern Industrial Revolution .
- 2. The Industrial landscape and change in the social and economic life of people.
- 3. How Industrial revolution gave birth to towns, trade and finance.

4. Debates on industrial revolution that how it adversely affected and exploited the life of people.

## OCTOBER

Displacing Indigenous People

- 1. Who are Aborigines ? Why do their rights matter.
- 2. What were the reasons for destruction of their habitat .What problems are they facing today.
- 3. What was the systematic process of land encroachment by Colonists.
- 4. What legal steps are taken by govt of United States and Australia as well as through

Constitutional Amendment for their welfare.

## NOVEMBER

- 1. Revision
- 2. Assignments
- 3. Class Tests

## DECEMBER

**Paths To Modernisation** 

- 1. The rise of modern nation states.
- 2. How Fascism competed with democracy and its end .
- 3. Japan as Asias first modern and Imperial Nation.
- 4. The story of division and Modernisation of Korea.

## JANUARY

- 1. Revision
- 2. Assignments
- 3. Class Tests FEBRUARY
- 1. Revision
- 2. Assignments
- 3. Class Tests

## **SUBJECT - COMPUTER SCIENCE**

Learning outcomes of class XI for the subject Computer Science for class XI

<u>April</u>

After the classes conducted during April, students will be able to

## Chapter : Number System

a. Distinction between the following number systems

- i. Decimal
- ii. Octal
- iii. Binary
- iv. Hexadecimal
- b. Identification of the validity of number on the basis of number system.
- c. Conversion of Decimal to
  - i. Octal
  - ii. Binary
  - iii. Hexadecimal
- d. Conversion of Hexadecimal to
  - i. Binary
  - ii. Decimal
- e. Conversion of Octal to
  - i. Binary
  - ii. Decimal
- f. Conversion of Binary to
  - i. hOctal
  - ii. Decimal
  - iii. Hexadecimal

## <u>May</u>

After the classes conducted during May, students will be able to

**Chapter : Python Fundamentals** 

- a. Understand the need of a programming language
- b. Understand basic structure to write a simple program
- c. Able to accept values of following types
  - a. Int
  - b. String
  - c. Float
- d. Categorization of operators in following categories
  - a. Relational
  - b. Logical
  - c. Mathematical
  - d. Augmented
- e. Implement Print statement to print outputs.

July

After the classes conducted during July, students will be able to

**Chapter : Conditional and Iterable Statements** 

- a. Define and understand the need of selection statement
- b. Code a condition using following combination of
  - i. if else
  - ii. if elif
  - iii. if if
  - iv. if elif if
- c. Understand the working of immutable datatypes
- d. Implement usage of is, in not in and range() in code

#### <u>August</u>

After the classes conducted during August, students will be able to

Chapter : Conditional and Iterable Statements Continued

- a. To understand the need of iterations statements.
- b. Label the parts of following loops
  - i. For
  - ii. While
- c. Implement simple programs to calculate factorial, sum of series , patterns
- d. Convert a simple for loop into while loop.

## **September**

After the classes conducted during September, students will be able to

**Chapter : Conditional and Iterable Statements Continued** 

- a. Implementation of nested loops.
- b. Predict output of the complicated programs involving two to three loops.

**Chapter : String manipulations** 

- a. Understand the concept on indexing a string value
- b. Differentiate between 0 to n-1 and -1,-2
- c. Extract the values of string using slicing method

## <u>October</u>

After the classes conducted during October, students will be able to

**Chapter :String manipulations Continued** 

a. Apply following inbuilt functions

len(), capitalize(), title(), upper(), lower(), count(), find(), index(), isalnum(), islower(), isupper(),
isspace(), isalpha(), isdigit(), split(), partition(), strip(), lstrip(), rstrip(), replace()

## **Chapter : Lists**

- a. Need to create list in python
- b. Differentiate between mutable and immutable
- c. Different types of list usages and syntaxes
  - i. Empty
  - ii. Mixed
  - iii. Numeric
  - iv. String

- d. Code to implement following operations in lists
  - i. Slicing
  - ii. Adding
  - iii. Removing
  - iv. Modifying
- e. Implement following method len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), min(), max(), sum()
- f. Code to pack and unpack lists.

## <u>November</u>

After the classes conducted during November, students will be able to

## **Chapter : Tuples**

- a. Need to create tuples in python
- b. Differentiate between lists and tuples
- c. Implement following functions/methods len(), tuple(), count(), index(), sorted(), min(), max(), sum()
- d. Use the concept of slicing for tuple

## **Chapter : Boolean Algebra**

- a. Identify and draw AND,OR,NOT gates
- b. Understand a Boolean expression and verify using truth table.
- c. State and verify d' morgan theorem .
- d. Draw a logic gate of a Boolean expression.

## **December**

After the classes conducted during December, students will be able to

**Chapter : Dictionary** 

- a. Understand the need of dictionary.
- b. Differentiate between key and value part of dictionary.
- c. Separate the key and value part of dictionary.
- d. Implement the following operations on a dictionary
  - a. Create a dictionary dynamically
    - b. Modify the key part
    - c. Modify the value part
    - d. Print values of dictionary

## <u>January</u>

After the classes conducted during January, students will be able to

**Chapter : Dictionary continued** 

a. Implement methods functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted() copy()

b. Combine the dictionary involving list, tuples and string values

## **February**

After the classes conducted during February, students will be able to

**Chapter : Society laws and ethics** 

a. Technically understand and define

- i. Cyber Safety ii.Cyber trolls
- iii. Cyber bullying

b. Define the concept of illegal down loads phishing , intellectual property using examples from real world

c. List the most commonly cyber crimes

d. List the steps involved to decompose E-Waste

Students will be presenting the above-mentioned topics in form of one to one presentation.

Please Note: the rest of the February students will be revising all the topics using application based questions . Learning Outcome will be to familiarize with each part of question paper.