

**St. Paul's School, Aya Nagar**  
**Science Section Monthwise Syllabus**  
**Class XII (2024-2025)**

**ENGLISH**

<b>Month</b>	<b>Chapters and Topic Covered</b>
<b>April</b>	<ol style="list-style-type: none"><li>1. <b>WRITING SKILLS</b><ul style="list-style-type: none"><li>● <b>Notice writing</b></li></ul></li><li>2. <b>FLAMINGO -</b><ul style="list-style-type: none"><li>● <b>The Last Lesson (Prose)</b></li><li>● <b>Aunt Jennifer's Tigers (Poem)</b></li><li>● <b>My Mother at Sixty-Six (Poem)</b></li></ul></li><li>3. <b>VISTAS</b><ul style="list-style-type: none"><li>● <b>The Tiger King</b></li><li>● <b>On the Face of It</b></li></ul></li></ol>
<b>May</b>	<ol style="list-style-type: none"><li>1. <b>WRITING SKILLS</b><ul style="list-style-type: none"><li>● <b>Formal Invitation</b></li><li>● <b>Reply to formal Invitation</b></li><li>● <b>Informal Invitation</b></li><li>● <b>Reply to informal invitation</b></li></ul></li><li>2. <b>FLAMINGO-</b><ul style="list-style-type: none"><li>● <b>Lost Spring (Prose)</b></li><li>● <b>Keeping Quiet (Poem)</b></li></ul></li><li>3. <b>VISTAS-</b><ul style="list-style-type: none"><li>● <b>Memories of Childhood</b></li></ul></li></ol>
<b>July</b>	<ol style="list-style-type: none"><li>1. <b>WRITING SKILLS</b><ul style="list-style-type: none"><li>● <b>Letter to the Editor</b></li></ul></li><li>2. <b>FLAMINGO</b><ul style="list-style-type: none"><li>● <b>Deep Water (Prose)</b></li><li>● <b>A Thing of Beauty</b></li></ul></li><li>3. <b>VISTAS-</b><ul style="list-style-type: none"><li>● <b>Journey to the end of the Earth</b></li></ul></li></ol>
<b>August</b>	<ol style="list-style-type: none"><li>1. <b>WRITING SKILLS</b><ul style="list-style-type: none"><li>● <b>Letters for job application with bio data or resume</b></li></ul></li><li>2. <b>FLAMINGO-</b><ul style="list-style-type: none"><li>● <b>The Rattrap (Prose)</b></li><li>● <b>A Roadside Stand (Poem)</b></li></ul></li><li>3. <b>VISTAS-</b><ul style="list-style-type: none"><li>● <b>The Enemy</b></li></ul></li></ol>
<b>September</b>	<ol style="list-style-type: none"><li>1. <b>WRITING SKILLS</b><ul style="list-style-type: none"><li>● <b>Article/Report Writing</b></li></ul></li></ol>

2. **FLAMINGO-**
  - Indigo (Prose)
  - Poets and Pancakes
3. **VISTAS-**
  - The Third Level
4. **Revision of the Syllabus covered for Term-1 exam**

October

1. **FLAMINGO**
  - The Interview
  - Going Places

November till First week      **Revision of the syllabus covered (Pre-Boards)**

## Physics

### Month

### **Chapters and Topic Covered**

April

#### **Chapter–1: Electric Charges and Fields**

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

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

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

#### **Chapter–2: Electrostatic Potential and Capacitance**

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

**Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).**

May

**Chapter–3: Current Electricity** **Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.**

**Chapter–4: Moving Charges and Magnetism** **Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop.**

**Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter**

**July** Chapter-5: Magnetism and Matter Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.

**Chapter-6: Electromagnetic Induction Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.**

**Chapter-7: Alternating Current Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer.**

**August** Chapter-8: Electromagnetic Waves Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

**Chapter-9: Ray Optics and Optical Instruments Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.**

**Chapter-10: Wave Optics Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).**

**September** Chapter-11: Dual Nature of Radiation and Matter Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation.

**October** Chapter-12: Atoms Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit,

velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only).

**Chapter-13: Nuclei Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.**

**Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier**

**November Revision starts**

## **Chemistry**

**Month Chapters and Topic Covered**

**April Ch-2 Solutions- Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gasses in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapor pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.**

**Ch -3 Electrochemistry - Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.**

**May Ch -4 Chemical Kinetics -Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.**

**Ch-8 Haloalkane - Nomenclature, nature of C-X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.**

**Haloarenes: Nature of C-X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).**

**Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.**

**Ch- 12 Biomolecules- Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides**

(sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen);  
Importance of carbohydrates.

Proteins -Elementary idea of - amino acids, peptide bond, polypeptides,  
proteins, structure of proteins - primary, secondary, tertiary structure and  
quaternary structures (qualitative idea only), denaturation of proteins;  
enzymes. Hormones - Elementary idea excluding structure.

Vitamins - Classification and functions.

Nucleic Acids: DNA and RNA.

**July**

**Ch-9 Alcohol , Phenol and ether -Alcohols: Nomenclature, methods of  
preparation, physical and chemical properties (of primary alcohols only),  
identification of primary, secondary and tertiary alcohols, mechanism of  
dehydration, uses with special reference to methanol and ethanol.**

**Phenols: Nomenclature, methods of preparation, physical and chemical  
properties, acidic nature of phenol, electrophilic substitution reactions, uses of  
phenols.**

**Ethers: Nomenclature, methods of preparation, physical and chemical  
properties, uses.**

**Ch-10 Aldehyde, ketone and Carboxylic -Aldehydes and Ketones:  
Nomenclature, nature of carbonyl group, methods of preparation, physical and  
chemical properties, mechanism of nucleophilic addition, reactivity of alpha  
hydrogen in aldehydes, uses.**

**Carboxylic Acids: Nomenclature, acidic nature, methods of preparation,  
physical and chemical properties; uses**

**August**

**Ch - 11 Amines Amines: Nomenclature, classification, structure, methods of  
preparation, physical and chemical properties, uses, identification of primary,  
secondary and tertiary amines.**

**Diazonium salts: Preparation, chemical reactions and importance in synthetic  
organic chemistry.**

**Ch-7 Coordination compounds - Coordination compounds - Introduction,  
ligands, coordination number, colour, magnetic properties and shapes, IUPAC  
nomenclature of mononuclear coordination compounds. Bonding, Werner's  
theory, VBT, and CFT; structure and stereoisomerism, importance of  
coordination compounds (in qualitative analysis, extraction of metals and  
biological system).**

**September**

**First terminal examination**

**Ch-6 d and f block - General introduction, electronic configuration, occurrence  
and characteristics of transition metals, general trends in properties of the first  
row transition metals – metallic character, ionization enthalpy, oxidation states,  
ionic radii, colour, catalytic property, magnetic properties, interstitial  
compounds, alloy formation, preparation and properties of  $K_2Cr_2O_7$  and  
 $KMnO_4$ .**

**Lanthanoids - Electronic configuration, oxidation states, chemical reactivity  
and lanthanoid contraction and its consequences.**

**Actinoids - Electronic configuration, oxidation states and comparison with  
lanthanoids.**

**October**

**Half chapter of d- block**

**November**                    **Revision Starts through Class test**

## **Mathematics**

**Month**                    **Chapters and Topic Covered**

**APRIL**                    **Chapter -1 Relations and Functions**  
**Chapter -2 Inverse Trigonometric Functions**  
**Chapter - 3 Matrices**  
**Chapter - 4 Determinants**

**MAY**                    **Chapter - 5 Continuity and Differentiability**  
**Chapter - 6 Application of Derivatives**

**JULY**                    **Chapter - 7 Integration**  
**Chapter - 8 Application of Integration**

**AUGUST**                **Chapter 9 - Differential Equations**  
**Chapter 10 - Vector Algebra**  
**Chapter 11 - Three Dimensional Geometry**

**SEPTEMBER**          **Revision for term 1**

**OCTOBER**            **Chapter 12 - Linear Programming**  
**Chapter 13 - Probability**

**NOVEMBER**          **Revision**

## **Biology**

**Month**                    **Chapters and Topic Covered**

**April**                    **Chapter 4: Principles of Inheritance and Variation**

**Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination – in humans, birds and honey bee; linkage and crossing over; sex linked inheritance – haemophilia, colour blindness; Mendelian disorders in humans – thalassemia; chromosomal disorders in humans; Down’s syndrome, Turner’s and Klinefelter’s syndromes**

## **Chapter 5: Molecular Basis of Inheritance**

**Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging;  
DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation – lac operon;  
Genome, Human and rice genome projects; DNA fingerprinting.**

## **May Chapter 5: Molecular Basis of Inheritance**

**Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging;  
DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation – lac operon;  
Genome, Human and rice genome projects; DNA fingerprinting.  
Chapter 6: Evolution Origin of life; biological evolution and evidence for biological evolution (palaeontology, comparative anatomy, embryology and molecular pieces of evidence); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution – variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy – Weinberg's principle; adaptive radiation; human evolution.**

## **July Chapter 7: Human Health and Diseases**

**Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control;  
Basic concepts of immunology – vaccines; cancer, HIV and AIDS; Adolescence – drug and alcohol abuse.**

## **Chapter 8: Microbes in Human Welfare**

**Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers.  
Antibiotics; production and judicious use**

## **August Chapter 9: Biotechnology – Principles and Processes Genetic Engineering (Recombinant DNA Technology).**

## **Chapter 10: Biotechnology and its Applications**

**Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy;  
genetically modified organisms – Bt crops; transgenic animals; biosafety issues, biopiracy and patents.**

## **September Chapter 11: Organisms and Populations**

**Population interactions – mutualism, competition, predation, parasitism; population attributes – growth, birth rate and death rate, age distribution.**

## **Chapter 12: Ecosystem**

**Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy .**

### **Chapter 13: Biodiversity and its Conservation**

**Biodiversity- concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites**

**October**

### **Chapter 1: Sexual Reproduction in Flowering Plants**

**Flower structure; development of male and female gametophytes; pollination – types, agencies and examples; out breeding devices; pollen-pistil interaction; double fertilization; post fertilization events – development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.**

**Chapter 2: Human Reproduction Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis -spermatogenesis and oogenesis;**

**menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea);parturition (elementary idea); lactation (elementary idea).**

### **Chapter 3: Reproductive Health**

**Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs);**

**birth control – need and methods, contraception and medical termination of pregnancy (MTP);amniocentesis; infertility and assisted reproductive technologies – IVF, ZIFT, GIFT (Elementary idea for general awareness).**

**November**

**Revision starts**

## **Computer Science**

**Month Chapters and Topic Covered**

**April**

### **Ch-1 and 2**

**Python Revision Tour-I and II:-**

**Revision of all important topics(string, list, tuples functions)**

### **Ch-3**

**Working with Functions:- Defining functions in Python, Understanding the concept of parameters,**

**Returning values from functions, Scope of variable**

**Ch-4 Using Python Libraries:- Understanding library and modules, Importing modules, Using Python standard library's functions and**



modules, creating your own library

May

**Ch-5**

**File Handling:-**

**Data Files, Opening and closing files, working with text files, Standard input, output and error streams, Working with binary files, Working with CSV files**

July

**Ch-6**

**Exception Handling:- Introduction, Exceptions and exception handling**

**Ch-7 Data Structures:- Introduction, Stacks**

**Ch-10 Relational Databases:-Introduction, purpose of DBMS, Relational database model, The relational model terminology, Brief history of MySQL, MySQL Database System, Starting MySQL, MySQL and SQL**

August

**Ch-11 Simple Queries in SQL:- Introduction, Some MySQL SQL elements, SQL command syntax, sample database, making simple queries, MySQL functions, Aggregate functions**

**Ch-12 Table creation and Data Manipulation commands:- Introduction, Databases in MySQL, Creating tables, Changing data with DML commands, More DDL commands**

**Ch-13 Grouping records, joins in SQL:- Introduction, Types of SQL functions, Grouping result - GROUP BY, JOINS**

**Ch-14 Interface Python with MySQL:-Introduction, connecting to MySQL from Python, Parameterized Queries, Performing insert and update queries**

September

**Ch-8 Computer Networks-I:- Introduction, Computer Networks, Types of networks, Evolution of networking, switching techniques, Data communication terminologies, Transmission Media, Network topologies**

**Ch-9 Computer Networks - II:- Introduction, Network Devices, Network Protocols, Wireless/ Mobile computing technologies, Internetworking terms and concepts, Network security concepts, Viruses**

**October**                      **Revision starts**

**Economics**

**Book - Macro Economics and Indian Economic Development**

**By: Sandeep Garg**

**Month**                      **Chapters and Topic Covered**

**April**

**Unit 1 of Macro**

**CH 1: Circular Flow of Income**

**CH 2: Basic Concepts of Macroeconomics**

**CH 3: National Income and Related Aggregates**

**CH 4: Measurement of National Income**

**Unit 1 of IED**

**CH 1: Indian Economy on the Eve of Independence**

**May**

**Unit 2 of Macro**

**CH 5: Money**

**CH 6: Banking- Commercial Banks and the Central Bank**

**Unit 1 of IED**

**CH 2: Indian Economy (1950-1990)**

**July**

**Unit 3 of Macro**

**CH 7: Aggregate Demand and Related Concepts**

**CH 8: Income Determination and Multiplier**

**Unit 1 of IED**

**CH 3: Liberalisation, Privatisation and Globalisation: An Appraisal**

**August**

**Unit 3 of Macro**

**CH 9: Excess Demand and Deficient Demand**

**Unit 2 of IED**

**CH 4: Human Capital Formation**

**CH 5: Rural Development**

**September**

**Unit 4 of Macro**

**CH 10: Government Budget and the Economy**

**Unit 2 of IED**

**CH 6: Employment- Growth, Informalisation and Other Issues**

**October**

**Unit 5 of Macro**

**CH 11: Foreign Exchange Rate**

**Unit 2 of IED**

**CH 7: Environment and Sustainable Development**

**Unit 5 of Macro**

**CH 12: Balance of Payments**

**Unit 3 of IED**

**CH 8: Comparative Development Experience of India and its Neighbours**

**Pre Board**

**Full Syllabus**

**Informatics Practices**

Month	Chapters and Topic Covered
April	<p><b><u>Ch-1</u></b></p> <p>Python Pandas - 1:- Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames.</p> <p><b><u>Ch-2</u></b> Python Pandas - 2:-Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.</p>
May	<p>Data Frames: creation - from dictionary of Series, list of dictionaries</p> <p><b><u>Ch-3</u></b> Plotting with PyPlot:- Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots</p>
July	<p><b><u>Ch-4</u></b> Importing / exporting data between CSV files / MySQL and Pandas:- Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing;</p> <p>Importing/Exporting Data between CSV files and Data Frames</p>
August	<p><b><u>Ch-5</u></b> MySQL SQL Revision Tour :- Revision of database concepts and SQL commands covered in class XI Math functions: POWER 0, ROUND 0, MOD 0. <b><u>Ch-6</u></b> MySQL functions Text functions: UCASE 0/UPPER 0, LCASE 0/LOWER 0, MID 0/SUBSTRING 0/SUBSTR 0, LENGTH 0, LEFT 0, RIGHT 0, INSTR 0, LTRIM 0, RTRIM 0, TRIM 0. Date Functions: NOW 0, DATE 0, MONTH 0, MONTHNAME 0, YEAR 0, DAY 0, DAYNAME 0. Aggregate Functions: MAX 0, MIN 0, AVG 0, SUM 0, COUNT 0; using COUNT (*). </p>

**Ch-7**  
**Querying using SQL:-**  
**Querying and**  
**manipulating data using**  
**Group by, Having, Order**  
**by.**

**Ch-8**  
**Joins and set operations:-**  
**Working with two tables**  
**using equi-join**

September

**Ch-9** Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway  
Network Topologies: Star, Bus, Tree, Mesh.

**Ch-10** Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website.  
Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.

**Ch-11** Societal Impacts:- Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS)

**Ch-12** Data protection cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology

October

Revision starts

Physical education

Month                      Chapters and topic covered

April

Ch - 1

Management of Sporting Events

- Functions of Sports Events Management
- Various Committees & their Responsibilities (Pre, during, post)

- **Fixtures and their Procedure - Knock-out (Bye & Seeding) & League (Staircase ,Cyclic , Tabular methods) and Combination Tournaments.**
- **Intramurals & Extramurals Tournaments - Meaning ,Objectives & its Significance .**
- **Community Sports Program (Sports Day ,Health Run , Run For Fun , Run For Specific Cause & Run For Unity)**

## **Ch-2**

### **Children & Women in Sports**

- **Exercise Guidelines of WHO for Different Age Group .**
- **Common Postural Deformities - Knock-Knees , FlatFoot ,Round shoulders ,Lordosis , ,Kyphosis , Scoliosis and Bow legs and their Respective Benefits .**
- **Women's Participation in Sports - Physical ,Psychological and Social Benefits .**
- **Special Consideration ( Menarche and Menstrual Dysfunction )**
- **Female Athlete Traid (Osteoporosis ,Amenorrhea , Eating Disorder .**

## **Ch-3**

### **Yoga as Preventive Measure for Lifestyle Disease**

- **Obesity : Procedure ,Benefits & Contraindications for Tadasana ,Katichakrasana , Pavanmuktasana ,Matsayasana , Halasana , Pachimottansana ,Ardha-Matsyendrasana , Dhanurasana ,Ushtrasana , Suryabedhan Prayanayama**
- **Diabetes : Katichakrasana , Pavanmuktasana ,Bhujangasana , Shalabhasana , Dhanurasana, Supta-Vajarasana , Paschimottanasana , Ardha- Mastyendrasana , Mandukasana , Gomukasana ,Yogmudra , Ushtrasana , Kapalbhati .**
- **Asthma : Tadasana ,Urdhwahastottansana , Uttan Mandukasana , Bhujangasana , Dhanurasana , Ushtrasana , Vakrasana , Kapalbhati , Gomukhasana ,Matsyaasana , Anuloma -Viloma .**
- **Hypertension : Tadasana , Katichakrasana , Uttanpadasana , Ardha Halasana , Sarala Matyasana ,**
- **Back Pain & Arthritis : Tadasana , Urdhawahastootansana , Ardh -Chakrasana , Ushtrasana, Vakrasana, Sarala Maysyendrsana, Bhujandgasana,Gomukhasana**

## **Ch-4**

**May**

**Physical Education & sports for CWSN**

- **Organization Promoting Disability Sports**
- **Concept of Classification & Divisioning in Sports**
- **Concept of Inclusion in Sports, its Need, and Implementation**
- **Advantages of physical Activities for Children and Special Needs.**
- **Strategies to make Physical Activities Assessable for Children with Special Needs**

#### **Ch-5**

##### **Sports and Nutrition**

- **Concept of Balanced Diet and Nutrition**
- **Macro and Micro Nutrients: Food Sources & Functions**
- **Nutritive & Non Nutritive Components of Diet**
- **Eating For Weight Control- A Healthy Weight , The Pitfalls of Dieting , Food Intolerance , Food Myths .**
- **Importance of Diet in Sports - Pre , During and post Competition Requirements**

July

#### **Ch-6**

##### **Test & Measurement in Sports**

- **Fitness Test -Sai Khelo India Fitness Test in School , Flamingo Balance Test , Plate Tapping Test**
- **Measurement of Cardiovascular fitness - Harvard Step Test**
- **Computing Basal Metabolic Rate (BMR)**
- **Rikli & Jones - Senior Citizen Fitness Test**
- **Chair Sit & Reach Test**
- **Back Scratch Test**
- **Eight Foot Up & Go Test**
- **Six -Minute Walk Test**
- **Johnson- Metheny Test of Motor Educability**

#### **Ch-7**

##### **Physiology & Injuries in Sports**

- **Physiological Factors Determining Components of Physical Fitness**
- **Effects of Exercise on Muscular System**
- **Effect of Exercise on the Cardio-Respiratory System**
- **Physiological Changes Due to Ageing**
- **Sports Injuries: Abrasion, Contusion , Laceration , Incision , Sprain ,& Strain**

**bone&Joint Injuries : Dislocation ,**

**Fracture -Green Stick,Comminuted , Transverse**

**August**

**Ch- 8**

**Biomechanics & Sports**

- **Newton's Law of Motion & its application in Sports**
- **Types of Levers & Their Application in Sports**
- **Equilibrium -Dynamics & Static and Centre of Gravity and its Application in Sports**
- **Friction & sports**
- **Projectile in Sports**

**Septembers**

**Ch-9**

**Psychology & Sports**

- **Personality : Definition ,Types (Jung Classification & Big Five Theory )**
- **Motivation : Types & Techniques**
- **Exercise Adherence : Reason , Benefits & Strategies for Enhancing it**
- **Meaning Concept & Types of Aggressions in Sports**
- **Psychological attributes in Sports - Self Esteem ,Mental Imagery , Self Talk , Goal Setting**

**Ch-10**

**Training in Sports**

- **Concept of Talent Identification &Talent Development in Sports**
- **Introduction to Sports Training Cycle - Micro ,Meso,Macro Cycle**
- **Types & methods to Develop - Strength , Endurance , Speed**
- **Types &Methods to Develop - Flexibility & Coordinative Ability .**
- **Circuit Training - Introduction & its Importance**

**October**

**Revision starts**



## Psychology

Month	Chapters and Topic Covered
March	Ch-1 Variations in psychological attributes
April	Ch-2 Self and personality
May	Ch-3 Meeting life challenges
July	Ch-4 Psychological disorders
August	Ch-5 Therapeutic approaches
September	Ch-6 Attitude and Social Cognition
October	Ch-7 Social influence and group processes
November	Revision begins

## Class -12th

Commerce stream monthwise syllabus  
(2024-2025)

### Accounts

Month

April

Chapters and topic covered

Chapter 2 Goodwill and Change in profit Sharing ratio

Goodwill Definition and it's types

Factors affecting Goodwill

Formulae to calculate Goodwill

Practical sums

Chapter 3 Admission of Partner

What are the changes required in a firm when a partner is admitted

Sacrificing ratio and gaining ratio

New profit Sharing ratio

Treatment of goodwill

Distribution of Accumulated profits and losses

Revaluation account

Partners' Capital Accounts

MAY

Admission of partner( Remaining)

Adjusted partners capital accounts

Balance sheet

Chapter 4

Retirement of partner

Sacrificing ratio and gaining ratio  
New profit sharing ratio  
Treatment of goodwill  
Distribution of Accumulated profits and losses  
Revaluation account  
Partners Capital accounts  
Adjusted partners capital accounts  
Balance Sheet

Death of partner  
Deceased Partner's Capital Account  
Profit and Loss Suspense Account  
Methods last year profit basis  
Turnover basis  
Deceased Partner's loan Accounts

July

chapter 5  
Dissolution Of Partnership firm  
Definition  
Reasons of dissolution of Partnership firm  
Dissolution with the consent Of partners  
Compulsory Dissolution  
Treatment of losses  
Application of assets  
Treatment of Firm's debts  
Treatment of personal debts  
Realisation Account and journal entries  
Journal entries related to Realisation Expenses  
Partners' Capital Accounts  
Cash /Bank Account  
Memorandum Balance Sheet  
Chapter 6  
Company Accounts  
Definition of Company traditional and  
According to company Act 2013  
Features of company  
Types of companies  
One person company  
Private Company  
Public company  
Formation Of company  
Definition Of share traditional and according to  
company Act 2013  
Types of shares  
Equity shares  
Preference shares  
Sweaty Equity shares, Employee stock option  
plan

August

Company Accounts

Types of Capitals  
 Authorised share capital  
 Issued share capital  
 Subscribe share capital  
 Called up capital & Paid up capital  
 Reserved capital  
 Capital Reserve  
 Issue of Share Capital:- At Par ,At premium  
 Calls in Arrear, Calls in Advance  
 Oversubscription :-  
 ● Pro-rata allotment  
 Undersubscription  
 Forfeiture of shares:-  
 ● When premium is received  
 ● When premium is not received  
 Re- issue of shares :-  
 ● Full re-issue  
 ● Partial re-issue  
 Purchase consideration other than cash  
 Company's Balance Sheet  
 Chapter 7  
 Issue of Debentures:-  
 ● At par , At premium, At discount  
 ● Oversubscription  
 ● Undersubscription  
 ● As Collateral Security  
 ● Different cases of issue of shares  
 ● Purchase consideration other than cash  
 Financial statements  
 Chapter 8  
 Company's Balance Sheet  
 With Notes to Accounts  
 Heads and sub-heads  
 Chapter 9  
 Income Statement  
 Formate , heads and sub-heads  
 Notes to Accounts  
 Chapter 10  
 Ratio  
 Definition and Types  
 Liquidity ratio:-  
 ● Current Ratio  
 ● Liquid ratio  
 Solvency ratio:-  
 ● Debt equity ratio  
 ● Total assets to debt ratio  
 ● Proprietorship ratio  
 ● Interest coverage ratio  
 ● Debt to Capital Employed ratio  
 Activity ratio:-  
 ● Inventory Turnover ratio

September

- Trade receivables Turnover ratio
- Trade Payable Turnover ratio
- Working capital Turnover ratio
- Fixed Assets Turnover ratio
- Net Assets Turnover ratio

Profitability ratio

- Gross profit ratio
- Operating ratio
- Operating profit ratio
- Net profit ratio
- Return on Capital employed

October

Chapter 12

Cash flow Statement

Definition

Cash flow from Various Activities

Cash flow from Operating

Cash flow from Investing Activities

Cash flow from Financing activities

Cash and cash equivalents

Business studies

Month

April

Chapters and topic covered

Chapter 2

Principles of Management Taylor's

14 Principles of management Fayol's

Scientific Principles And Scientific Techniques

Chapter 3

Business Environment

Definition

Factors of business environment

Importance

Characteristics

Components of business environment

Legal

Political

Social

Economical

Technological

Liberalisation, privatization and globalization

Impacts of LPG

May

Chapter 4

Planning

Features

July

Importance  
Planning process  
Types of plans  
Chapter 5  
Organising  
Definition  
Features  
Importance  
Functional Department  
Divisional Department  
Process of organising  
Formal organisation  
Informal organisation  
Chapter 6  
Staffing  
Definition  
Features  
Importance  
Process of Staffing  
Recruitment

- Internal Recruitment
- External Recruitment

Chapter 7  
Directing  
Definition  
Features  
Importance  
Process Of Directing  
Elements of Directing

- Supervision
- Motivation
- Communication
- Leadership

August

Chapter 8  
Controlling  
Definition  
Features  
Importance  
Process  
Chapter 9  
Financial Management  
Definition  
Features  
Importance  
Financial decision

- Investing
- Financing
- Dividend

Factors affecting

Investing Decision  
Financing Decision  
Divided Decision  
Objectives Of financial Decisions  
Financial planning  
Capital Structure  
Factors affecting Capital structure  
Factors affecting fixed capitals requirements  
Factors affecting working capital requirements

September

Chapter 10  
Financial Market  
Definition  
Types  
Money Market  
Capital Market  
Demate account  
How to open demate account  
Stock exchange and its functions  
Security Exchange board of India and its functions

October

chapter 11& 12  
Marketing Management

Unit 11: Marketing

- Marketing – Concept, functions and philosophies
- Marketing Mix – Concept and elements
- Product – branding, labelling and packaging – Concept
- Price – Concept, Factors determining price
- Physical Distribution – concept, components and channels of distribution
- Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations

Unit 12: Consumer Protection

- Consumer Protection: Concept and importance
- Consumer Protection Act 2019:  
Meaning of consumer  
Rights and responsibilities of consumers

- Who can file a complaint?
- Redressal machinery
- Remedies available
- Consumer awareness – Role of consumer organizations and Non-Governmental Organizations (NGOs)

## **Economics**

**Book - Macroeconomics and Indian Economic Development**

**By: Sandeep Garg**

<b>Month</b>	<b>Chapters and topic covered</b>
<b>April</b>	<p><b>Unit 1 of Macro</b></p> <p><b>CH 1: Circular Flow Income</b></p> <p><b>CH 2: Basic Concepts of Macroeconomics</b></p> <p><b>CH 3: National Income and Related Aggregates</b></p> <p><b>CH 4: Measurement of National Income</b></p> <p><b>Unit 1 of IED</b></p> <p><b>CH 1: Indian Economy on the Eve of Independence</b></p>
<b>May</b>	<p><b>Unit 2 of Macro</b></p> <p><b>CH 5: Money</b></p> <p><b>CH 6: Banking- Commercial Banks and the Central Bank</b></p> <p><b>Unit 1 of IED</b></p> <p><b>CH 2: Indian Economy (1950-1990)</b></p>

<b>July</b>	<p><b>Unit 3 of Macro</b></p> <p><b>CH 7: Aggregate Demand and Related Concepts</b></p> <p><b>CH 8: Income Determination and Multiplier</b></p> <p><b>Unit 1 of IED</b></p> <p><b>CH 3: Liberalisation, Privatisation and Globalisation: An Appraisal</b></p>
<b>August</b>	<p><b>Unit 3 of Macro</b></p> <p><b>CH 9: Excess Demand and Deficient Demand</b></p> <p><b>Unit 2 of IED</b></p> <p><b>CH 4: Human Capital Formation</b></p> <p><b>CH 5: Rural Development</b></p>
<b>September</b>	<p><b>Unit 4 of Macro</b></p> <p><b>CH 10: Government Budget and the Economy</b></p> <p><b>Unit 2 of IED</b></p> <p><b>CH 6: Employment- Growth, Informalisation and Other Issues</b></p>
<b>October</b>	<p><b>Unit 5 of Macro</b></p> <p><b>CH 11: Foreign Exchange Rate</b></p> <p><b>Unit 2 of IED</b></p> <p><b>CH 7: Environment and Sustainable Development</b></p>
<b>November</b>	<p><b>Unit 5 of Macro</b></p> <p><b>CH 12: Balance of Payments</b></p>



**Unit 3 of IED**

**CH 8: Comparative Development  
Experience of India and its Neighbours**

**Pre Board**

**Full Syllabus**

**Humanities stream**

**Monthwise syllabus ( 2024-2025)**

**English**

**Month**

**Chapters and topic covered**

**April**

- 4. WRITING SKILLS**
  - Notice writing
- 5. FLAMINGO -**
  - The Last Lesson (Prose)
  - Aunt Jennifer's Tigers (Poem)
  - My Mother at Sixty-Six (Poem)
- 6. VISTAS**
  - The Tiger King
  - On the Face of It

**May**

- 4. WRITING SKILLS**
  - Formal Invitation
  - Reply to formal Invitation
  - Informal Invitation
  - Reply to informal invitation
- 5. FLAMINGO-**
  - Lost Spring (Prose)
  - Keeping Quiet (Poem)
- 6. VISTAS-**
  - Memories of Childhood

**July**

- 4. WRITING SKILLS**
  - Letter to the Editor
- 5. FLAMINGO**
  - Deep Water (Prose)
  - A Thing of Beauty

	6. VISTAS- ● Journey to the end of the Earth
<b>August</b>	4. WRITING SKILLS ● Letters for job application with bio data or resume 5. FLAMINGO- ● The Rattrap (Prose) ● A Roadside Stand (Poem) 6. VISTAS- ● The Enemy
<b>September</b>	5. WRITING SKILLS ● Article/Report Writing 6. FLAMINGO- ● Indigo (Prose) ● Poets and Pancakes 7. VISTAS- ● The Third Level 8. Revision of the Syllabus covered for Term-1 exam
<b>October</b>	2. FLAMINGO ● The Interview ● Going Places
<b>November till First week</b>	<b>Revision of the syllabus covered (Pre-Boards)</b>

## **History**

**Books:** 1.Themes in Indian History Part I  
 2.Themes in Indian History Part II  
 3.Themes in Indian History Part III

<b>Month</b>	<b>Chapters and topic covered</b>
<b>April</b>	<b>History Part I:</b>  <b>CH1:Bricks, Beads and Bones</b>  <b>CH2:Kings, Farmers and Towns</b>
<b>May</b>	<b>CH3:Kingship, Caste and class</b>  <b>CH4:Thinkers, Beliefs and Buildings</b>

<b>July</b>	<b>History Part II</b>
	<b>CH:5 Through the eyes of Travellers</b>
	<b>CH:6 Bhakti-Sufi Traditions</b>
<b>August</b>	<b>CH:7 An Imperial Capital – Vijayanagar</b>
	<b>CH:8 Peasants, zamindars and the States Agrarian Society and the Mughal Empire</b>
<b>September</b>	<b>History Part III</b>
	<b>CH:9 Colonialism and The Countryside</b>
	<b>CH:10 Rebels and Raj</b>
<b>October</b>	<b>CH:11 Mahatma Gandhi and the National Movement</b>
	<b>CH:12 Framing of the Constitution</b>

<b>Month</b>	<b>Chapters and topic covered</b>
<b>April</b>	<b>PART A-CONTEMPORARY WORLD POLITICS</b>
	<b>Ch-1 The End of Bipolarity</b>
	<b>Ch-2 Contemporary Centres of Power</b>
	<b>Ch-3 Contemporary South Asia</b>
<b>May</b>	<b>Ch-4 International Organizations</b>
	<b>Ch-5 Security in the Contemporary World</b>
	<b>Ch-6 Environment and Natural Resources</b>
<b>July</b>	<b>Ch-7 Globalisation</b>
	<b>PART B-POLITICS IN INDIA SINCE INDEPENDENCE</b>

**Ch-1 Challenges of  
Nation-Building 1**

**Ch-2 Era of One-Party  
Dominance**

**Ch-3 Politics of Planned  
Development**

**August**

**Ch-4 India's External Relations**

**Ch-5 Challenges to and  
Restoration of the Congress  
System**

**September**

**Ch-6 The Crisis of Democratic  
Order**

**October**

**Ch-7 Regional Aspirations  
Ch-8 Recent Developments in  
Indian Politics**

**Sociology**

**Books: 1.Indian society**

**2.Social change and development in India**

<b>Month</b>	<b>Chapters and Topic Covered</b>
<b>April</b> <b>Book 1: Indian society</b>	<b>Chapter 2.The Demographic Structure of Indian Society. Chapter 3.Social Institutions: Continuity and Change.[To be Continued]</b>
<b>May</b>	<b>Chapter 3:..Social Institutions: Continuity and Change.[ To be completed] Chapter 5 : Patterns of Social inequality and Exclusion. Cycle Test</b>
<b>July</b>	<b>Chapter 6 : The Challenges of Cultural Diversity. Periodic Test</b>
<b>August</b> <b>Book II: Social Change and</b>	<b>Chapter 1 :Structural Change Chapter 2 : Cultural Change</b>

## **Development in India**

**September**                      **First Terminal examination**  
**Syllabus : Chapters taught covered**  
**from March to August.**

**October**                              **Chapter 4: The Change and**  
**Development in the Rural Society.**  
**Chapter 5: The change and**  
**development in industrial society.**

**November till First week**      **Chapter 8 . Social movements**

## **Economics**

**Book - Macroeconomics and Indian Economic Development**

**By: Sandeep Garg**

### **Month**

### **Chapters and topic covered**

**April**

**Unit 1 of Macro**

**CH 1: Circular Flow of Income**

**CH 2: Basic Concepts of**  
**Macroeconomics**

**CH 3: National Income and Related**  
**Aggregates**

**CH 4: Measurement of National**  
**Income**

**Unit 1 of IED**

**CH 1: Indian Economy on the Eve of**  
**Independence**

**May**

**Unit 2 of Macro**

**CH 5: Money**

**CH 6: Banking- Commercial Banks**  
**and the Central Bank**

**Unit 1 of IED**

**CH 2: Indian Economy (1950-1990)**

**July**

**Unit 3 of Macro**

**CH 7: Aggregate Demand and Related Concepts**

**CH 8: Income Determination and Multiplier**

**Unit 1 of IED**

**CH 3: Liberalisation, Privatisation and Globalisation: An Appraisal**

**August**

**Unit 3 of Macro**

**CH 9: Excess Demand and Deficient Demand**

**Unit 2 of IED**

**CH 4: Human Capital Formation**

**CH 5: Rural Development**

**TERM -2 SEPTEMBER TO NOVEMBER**

**September**

**Unit 4 of Macro**

**CH 10: Government Budget and the Economy**

**Unit 2 of IED**

**CH 6: Employment- Growth, Informalisation and Other Issues**

**October**

**Unit 5 of Macro**

**CH 11: Foreign Exchange Rate**

**Unit 2 of IED**

**CH 7: Environment and Sustainable Development**

**November**

**Unit 5 of Macro**

**CH 12: Balance of Payments**

**Unit 3 of IED**

**CH 8: Comparative Development Experience of India and its Neighbours**

**Pre Board**

**Full Syllabus**

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**Physical Education**

**Chapters and topic covered**

**Month**

**Ch - 1**

**April**

**Management of Sporting Events**

- **Functions of Sports Events Management**
- **Various Committees & their Responsibilities (Pre, during, post)**
- **Fixtures and their Procedure - Knock-out (Bye & Seeding) & League (Staircase, Cyclic, Tabular methods) and Combination Tournaments.**
- **Intramurals & Extramurals Tournaments - Meaning, Objectives & its Significance.**
- **Community Sports Program (Sports Day, Health Run, Run For Fun, Run For Specific Cause & Run For Unity)**

**Month - MAY**

**Ch-2**

**Children & Women in Sports**

- Exercise Guidelines of WHO for Different Age Group .
- Common Postural Deformities - Knock-Knees , FlatFoot ,Round shoulders ,Lordosis , ,Kyphosis , Scoliosis and Bow legs and their Respective Benefits .
- Women's Participation in Sports - Physical ,Psychological and Social Benefits .
- Special Consideration ( Menarche and Menstrual Dysfunction )
- Female Athlete Traid (Osteoporosis ,Amenorrhea , Eating Disorder .

## MONTH - JULY

### Ch-3

#### Yoga as Preventive Measure for Lifestyle Disease

- Obesity : Procedure ,Benefits & Contraindications for Tadasana ,Katichakrasana , Pavanmuktasana ,Matsayasana , Halasana , Pachimottansana ,Ardha-Matsyendrasana , Dhanurasana ,Ushtrasana , Suryabedhan Prayanayama
- Diabetes : Katichakrasana , Pavanmuktasana ,Bhujangasana , Shalabhasana , Dhanurasana, Supta-Vajarasana , Paschimottanasana , Ardha- Mastyendrasana , Mandukasana , Gomukasana ,Yogmudra , Ushtrasana , Kapalbhati .
- Asthma : Tadasana ,Urdhwahastottansana , Uttan Mandukasana , Bhujangasana , Dhanurasana , Ushtrasana , Vakrasana , Kapalbhati , Gomukhasana ,Matsyaasana , Anuloma -Viloma .
- Hypertension : Tadasana , Katichakrasana , Uttanpadasana , Ardha Halasana , Sarala Matyasana ,
- Back Pain &Arthritis : Tadasana , Urdhawahastootansana , Ardh -Chakrasana , Ushtrasana, Vakrasana, Sarala Maysyendrnsana, Bhujandgasana,Gomukhasana

### Ch-4

#### Physical Education & sports for CWSN

- Organization Promoting Disability Sports
- Concept of Classification & Divisioning in Sports
- Concept of Inclusion in Sports, its Need, and Implementation
- Advantages of physical Activities for Children and Special Needs.
- Strategies to make Physical Activities Assessable for Children with Special Needs

### Ch-5

#### Sports and Nutrition

- Concept of Balanced Diet and Nutrition



- **Macro and Micro Nutrients: Food Sources & Functions**
- **Nutritive & Non Nutritive Components of Diet**
- **Eating For Weight Control- A Healthy Weight , The Pitfalls of Dieting , Food Intolerance , Food Myths .**
- **Importance of Diet in Sports - Pre , During and post Competition Requirements**

## **Ch-6**

### **Test & Measurement in Sports**

- **Fitness Test -Sai Khelo India Fitness Test in School , Flamingo Balance Test , Plate Tapping Test**
- **Measurement of Cardiovascular fitness - Harvard Step Test**
- **Computing Basal Metabolic Rate (BMR)**
- **Rikli & Jones - Senior Citizen Fitness Test**
- **Chair Sit & Reach Test**
- **Back Scratch Test**
- **Eight Foot Up & Go Test**
- **Six -Minute Walk Test**
- **Johnson- Metheny Test of Motor Educability**

## **Ch-7**

### **Physiology & Injuries in Sports**

- **Physiological Factors Determining Components of Physical Fitness**
- **Effects of Exercise on Muscular System**
- **Effect of Exercise on the Cardio-Respiratory System**
- **Physiological Changes Due to Ageing**
- **Sports Injuries: Abrasion, Contusion , Laceration , Incision , Sprain , & Strain**

**bone & Joint Injuries : Dislocation ,**

**Fracture -Green Stick, Comminuted , Transverse**

## **Ch- 8**

### **Biomechanics & Sports**

- **Newton's Law of Motion & its application in Sports**
- **Types of Levers & Their Application in Sports**
- **Equilibrium -Dynamics & Static and Centre of Gravity and its Application in Sports**
- **Friction & sports**
- **Projectile in Sports**

## **Ch-9**

## Psychology & Sports

- **Personality : Definition ,Types (Jung Classification & Big Five Theory )**
- **Motivation : Types & Techniques**
- **Exercise Adherence : Reason , Benefits & Strategies for Enhancing it**
- **Meaning Concept & Types of Aggressions in Sports**
- **Psychological attributes in Sports - Self Esteem ,Mental Imagery , Self Talk , Goal Setting**

### Ch-10

#### Training in Sports

- **Concept of Talent Identification &Talent Development in Sports**
- **Introduction to Sports Training Cycle - Micro ,Meso,Macro Cycle**
- **Types & methods to Develop - Strength , Endurance , Speed**
- **Types &Methods to Develop - Flexibility & Coordinative Ability .**
- **Circuit Training - Introduction & its Importance.**

#### Psychology.

<b>Months.</b>	<b>Chapters and Topic Covered.</b>	<b>Practicals</b>
<b>March.</b>	<b>Ch-1 Variations in psychological attributes</b>	<b>RSPM</b>
<b>April.</b>	<b>Ch-2 Self and personality</b>	<b>SCQ</b>
<b>May.</b>	<b>Ch-3 Meeting life challenges</b>	<b>SCAT</b>
<b>July.</b>	<b>Ch-4 Psychological disorders</b>	<b>Case study</b>
<b>August.</b>	<b>Ch-5 Therapeutic approaches</b>	<b>Case study</b>
<b>September.</b>	<b>Ch-6 Attitude and Social Cognition</b>	<b>SAS</b>
<b>October.</b>	<b>Ch-7 Social influence and group processes</b>	<b>BAI</b>
<b>November.</b>	<b>Revision begins</b>	

