DSP INTERNATIONAL SCHOOL

___Lead to serve___

ANNUAL ACADEMIC PLANNER

2025 - 2026

Grade XI (SCIENCE)

SUBJECT – ENGLISH (301)

TEXTBOOK	UNIT 1	UNIT 2	UNIT 3	UNIT 4
Hornbill	1. Chap 1. The portrait of a lady	1. Chap 3 - Discovering Tut: the saga continues	1. Chap 5. The Ailing Planet :the Green Movement's Role(deleted)	1. Chap 7. The adventure
	2. Poem - A photograph	2. Poem - The Laburnnum Top	2. Chap 6. The Browning Version(deleted)	2. Chap 8. Silk Road
	3. Chap 2. We're not afraid to die, if we're all together	3. Chap Landscape of the Soul(deleted)	3. Poem - Childhood	3. Poem - Father to Son
		4. Poem - The Voice of a Rain		
Snapshots	4. Chap 1. The Summer of the Beautiful White Horse	5. Chap 3. Ranga's Marriage(deleted)		4. Chap 6. The Ghat of the Only World(deleted)
	5. Chap 3. The Address		5. Chap 5. Mother's Day	5. Chap 7.Birth
				6. Chap 8. The Tale of Melon City(Poem)
Writing skill and Grammar	6. Chap 1. Note Making	6. Chap 2. Summarising	6. Chap 3. Sub-Titling	7. Chap 4. Essay Writing
	Questions on Gap filling(tenses and clauses)		Questions on re-ordering/transformation of sentences	8. Chap 5. Letter Writing
				9. Chap 6. Creative Writing

SUBJECT- PHYSICS (042)

UNIT 1	UNIT 2	UNIT 3	UNIT 4
Physical World and Measurement **Chapter–1** **Units and Measurements** **Kinematics** **Chapter–2: Motion in a Straight Line** **Chapter–3:** **Motion in a Plane** **Experiments** **1**. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Venire Calipers and hence find its volume. **2**. To measure diameter of a given wire and thickness of a given sheet using screw gauge. **3**. To determine volume of an irregular lamina using screw gauge. **4**. To determine radius of curvature of a given spherical surface by a spherometer . **5**. To determine the mass of two different objects using a beam balance.	**Laws of Motion** **Chapter 4:Laws of Motion** **Work, Energy and Power** **Chapter–5:Work, Energy and Power** **Motion of System of Particles and Rigid Body** **Chapter–6:System of Particles and Rotational Motion** **Gravitation** **Chapter–7:Gravitation** **Experiments** **6**. To find the weight of a given body using parallelogram law of vectors. **7**. Using a simple pendulum, plot its L-T2 graph and use it to find the effective length of second's pendulum. **8**. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result. **9**. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface. **10**. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and sinθ.	**Properties of Bulk Matter** **Chapter–8:** **Mechanical Properties of solid** **Chapter–9:** **Mechanical Properties of Fluids** **Chapter-10** **Thermal properties of matter** **Thermodynamics** **Chapter–11:** **Thermodynamics** **Experiments** **1**. To determine Young's modulus of elasticity of the material of a given wire. **2.** To find the force constant of a helical spring by plotting a graph between load and extension. **3.** To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V. **4.** To determine the surface tension of water by capillary rise method. **5**. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.	**Behaviour of Perfect Gases and Kinetic Theory of Gases** **Chapter–12: Kinetic Theory**. **Oscillations and Waves** **Chapter–13 Oscillations** **Chapter -14.Waves** **Experiments** **6.** To study the relationship between the temperature of a hot body and time by plotting a cooling curve. **7.** To determine specific heat capacity of a given solid by method of mixtures. **8**. To study the relation between frequency and length of a given wire under constant tension using sonometer. **9**. To study the relation between the length of a given wire and tension for constant frequency using sonometer. **10**. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.

SUBJECT – CHEMISTRY (043)

UNIT 1	UNIT 2	UNIT 3	UNIT 4
Theory	**Theory**	**Theory**	**Theory**
1. Some Basic Concepts of Chemistry	3. Classification of Elements and Periodicity in Properties	7) Redox Reactions	6) Equilibrium
2. Structure of Atom	4. Chemical Bonding and Molecular Structure		9) Hydrocarbons
	5) Chemical Thermodynamics	8) some basic principles and techniques	
Practical PA - 1	**Practical Term -I**	**Practical PA - 2**	**Practical Term - II**
Experiment	**Experiment**	**Experiment**	**Experiment**
A. Basic Laboratory Techniques A. Determined the anion and cation from the given salts	**C. Experiments based on pH 1. Any one of the following experiments:** • Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator. • **F. Quantitative Estimation** 1. Preparation of standard solution of Oxalic acid. 3. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid. 4. Preparation of standard solution of Sodium carbonate. 5. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.	1) Determined the anion and cation from the give salts	**E. Qualitative Analysis:** a. Determination of one anion and one cation in a given salt

SUBJECT – BIOLOGY (044)

UNIT 1	UNIT 2	UNIT 3	UNIT 4
Theory	**Theory**	**Theory**	**Theory**
1. Ch-1-The Living World (C)	1. Ch-6- Anatomy of flowering plants (C)	1.Ch-13-Photosynthesis in Higher plants (C)	1. Ch-19-Excretory products and their elimination (C)
2. Ch-2-Biological Classification (D)	2. Ch-7-Structural Organization in Animals (C)	2. Ch-14- Respiration in Plants (C)	2. Ch-20-Locomotion & movement (C)
3. Ch-3-Plant Kingdom (C)	3. Ch-8-Cell-The unit of Life (D)	3. Ch-15-. Plant Growth & Development (C)	3. Ch-21-Neural control & coordination (C)
4. Ch-4- Animal Kingdom (D)	4. Ch-9 Biomolecules (C)	4. Ch-17-Breathing & Exchange of gases (C)	4. Chapter-22: Chemical Coordination and Integration
5. Ch-5-Morphology of flowering Plants (C)	5. Ch-10-Cell cycle & cell Division (D)	5. Ch-18-Body fluids & Circulation (C)	
Practical PA - 1	**Practical Term -I**	**Practical PA - 2**	**Practical Term - II**
Experiment	**Experiment**	**Experiment**	**Experiment**
1. Study & describe a locally available common flowering plant, from any one family-Solanaceae or Liliaceae. A. Dissection & display of floral whorls, anther & ovary to show number of chambers-Floral formula & diagrams, type of root(tap /adventitious), type of stem(herbaceous and woody), leaf (arrangement, shape, venation, simple & compound) 2.preparation and study of T.S. Of dicot & monocot roots and stems(primary) 3. Study of osmosis by potato osmometer	1.Study of plasmolysis in epidermal peels (Rhoeo/ Lily leaves) 2.Study of distribution of stomata on the upper and lower surfaces of leaves 3.Comparative study of the rates of transpiration in the upper & lower surfaces of leaves	1.Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials 2. Separation of plant pigments through paper chromatography 3. Study of rate of respiration in flower buds/ leaf tissue and germinating seeds.	1. Test for presence of urea in urine. 2. Test for presence of sugar in urine. 3. Test for presence of albumin in urine 4. Test for presence of bile salts in urine

Spotting	Spotting	Spotting	Spotting
1. Parts of a compound microscope 2. Specimen/slides/models Identification with reasons- Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, monocotyledonous &dicotyledonous plant, lichen	1. Virtual specimens/slides/ models & identifying features of Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon, rabbit	1. Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides 2. Different types of inflorescences (cymose & racemose)	1. Human skeleton and different types of joints with the help of virtual image/ models

SUBJECT- MATHEMATICS (041)

UNIT 1	UNIT 2	UNIT 3	UNIT 4
1. Sets 2. Relation & Function 3. Trigonometric functions 4. Complex numbers and quadratic equations	5. Linear inequalities 6. Permutations and combinations 7. Binomial theorem+ P.A.1	8. Sequence and series 9. Straight line 10. Conic section 11. Introduction to three dimensional geometry	12. Limits and derivatives 13. Statistics 14. Probability + P.A-2

SUBJECT - INFORMATICS PRACTICES (065)

UNIT 1	UNIT 2	UNIT 3	UNIT 4
1. Introduction to computer system	2.Introduction to Python	3. Database concepts and the Structured Query Language	4. Introduction to Emerging Trends

Programming in Python

1. To find average and grade for given marks.
2. To find the sale price of an item with a given cost and discount (%).
3. To calculate perimeter/circumference and area of shapes such as triangle, rectangle, square and circle.
4. To calculate Simple and Compound interest.
5. To calculate profit-loss for a given Cost and Sell Price.
6. To calculate EMI for Amount, Period and Interest.
7. To calculate tax - GST / Income Tax.
8. To find the largest and smallest numbers in a list.
9. To find the third largest/smallest number in a list.
10. To find the sum of squares of the first 100 natural numbers.

11. To print the first 'n' multiples of a given number.
12. To count the number of vowels in a user entered string.
13. To print the words starting with a particular alphabet in a user entered string.
14. To print the number of occurrences of a given alphabet in a given string.
15. Create a dictionary to store names of states and their capitals.
16. Create a dictionary of students to store names and marks obtained in 5 subjects.
17. To print the highest and lowest values in the dictionary.

Data Management: SQL Commands

1. To create a database
2. To create a student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.
3. To insert the details of at least 10 students in the above table.
4. To delete the details of a particular student in the above table.
5. To increase marks by 5% for those students who have Rno more than 20.
6. To display the entire content of the table.

SUBJECT- PHYSICAL EDUCATION (048)

Unit 1	Unit 2	Unit 3	Unit 4
UNIT 1. Changing Trends and Careers in Physical Education 1. Concept, Aims & Objectives of Physical Education 2. Development of Physical Education in India – Post Independence 3. Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements 4. Career options in Physical Education 5. Khelo-India Program and Fit – India Program UNIT 2. Olympism Value Education 1. Olympism – Concept and Olympics Values (Excellence, Friendship & Respect) 2. Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind	UNIT 3. Yoga 1. Meaning and importance of Yoga 2. Introduction to Astanga Yoga 3. Yogic Kriyas (Shat Karma) 4. Pranayama and its types. 5. Active Lifestyle and stress management through Yoga Unit 4. Physical Education & Sports for CWSN 1. Concept of disability and disorders. 2. Types of disability it costs and nature. 3. I am an objective of adaptive physical education. 4. Roll off various professionals For children with special needs. Reports and Type disability. Reports and nature Type disability. It calls and nature UNIT 5. Physical	UNIT 6. Test, Measurement & Evaluation 1. Define Test, Measurements and Evaluation. 2. Importance of Test, Measurements and Evaluation in Sports. 3. Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site) 4. Somato Types (Endomorphy, Mesomorphy & Ectomorphy) 5. Measurements of health-related fitness UNIT 7. Fundamentals of Anatomy, Physiology in Sports 1. Definition and importance of Anatomy and Physiology in Exercise and Sports. 2. Functions of Skeletal System, Classification of Bones, and Types of Joints. 3. Properties and Functions of	UNIT 8. Fundamentals Of Kinesiology And Biomechanics in Sports 1. Definition and Importance of Kinesiology and Biomechanics in Sports. 2. Principles of Biomechanics 3. Kinetics and Kinematics in Sports 4. Types of Body Movements – Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation 5. Axis and Planes – Concept and its Application in body Movements UNIT9. Psychology and Sports 1. Definition & Importance of Psychology in Physical Education & Sports; 2. Developmental Characteristics at Different Stages of Development; 3. Adolescent Problems & their Management

3. Ancient and Modern Olympics 4. Olympics - Symbols, Motto, Flag, Oath, and Anthem 5. Olympic Movement Structure - IOC, NOC, IFS, Other members	Fitness, Wellness, and Lifestyle 1. Meaning & importance of Wellness, Health, and Physical Fitness. 2. Components / Dimensions of Wellness, Health, and Physical Fitness 3. Traditional Sports & Regional Games for promoting wellness 4. Leadership through Physical Activity and Sports5. Introduction to First Aid – PRICE	Muscles. 4. Structure and Functions of Circulatory System and Heart. 5. Structure and Functions of Respiratory System.	4. Team Cohesion and Sports; 5. Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness UNIT 10. Training & Doping in Sports 1. Concept and Principles of Sports Training 2. Training Load: Over Load, Adaptation, and Recovery 3. Warming-up & Limbering Down – Types, Method & Importance 4. Concept of Skill, Technique, Tactics & Strategies 5. Concept of Doping and its disadvantages