



A.S.M. MODERN ACADEMY

A Senior Secondary Co-Educational School Affiliated to C.B.S.E New Delhi

SYLLABUS FOR ACADEMIC YEAR (2025-26)

Class - XI (Science)

Sub	PA-1		Half Yearly / (S.A-I)	PA-2	Annual / (S.A-II)
	MAY TEST	AUG TEST			
ENGLISH	Reading:- 1-Unseen passage 2-Writing 3-Poster Writing Grammar:- 1-Tense Literature:- 1-Hornbill 2-The Portrait of a lady (Prose) A Photograph 2. Snapshots * The summer of the beautiful white horse. Writing skills 1- Invitation (formal & Informal) 2- Replies to the invitation	Reading:- *Unseen passage *Writing Advertisement Grammar:- *Clauses Literature:- 1. Hornbill *We're not afraid to Die *The Laburnum Top 2. Snapshots * The Address Writing Notice writing Job application	Reading:- *Unseen passage Writing:- 1- Poster 2-Advertisement 3-Speech Grammar:- 1-Tense 2-Clauses 3-Re-ordering of sentences Hornbill 1-Discovering Tut: The Saga continues 2-The voice of the Rain (Snapshots) 3-Mother's Day [Along with the previous syllabus] Writing - Notice writing, Invitation and their replies, Job application, Letter to the editor, Article writing	Reading:- *Unseen passage Writing:- 1-Debate 2-Grammar *Transformation of sentences Literature:- Hornbill *The Adventure *Childhood Snapshots *Birth Writing Notice - Writing Invitation and their Replies Job application, Letter to the Editor, Article writing, Report writing	Reading:- *Unseen passage Writing:- 1-Poster 2-Advertisement 2-Speech *Debate Grammar:- 1- Tense 2-Clauses 3-Re-ordering of sentences 4- Transformations of sentences -Literature:- 1-Hornbill 2-Silk Road 3-Father to son 4-Discovering Tut:- The saga 5-The Laburnum top 5-The portrait of a lady 6-We're not afraid to die 7-The voice of the Rain Snapshots 1-The Tale of Melon city 2-Birth 3-The Address Writing 1- Notice writing 2- Invitation & their Replies 3- Job application 4- Letter to the editor 5- Article writing 6- Report writing
CHEMISTRY	Ch-1 (Some basic concept of chemistry)	Ch-2 (Structure of Atom) Ch-3 (Periodicity in chemical properties)	Ch-1,2,3 Ch-4 (Chemical Bonding) Ch-5 (Red ox) Ch-8 Some basic principles & technique	Ch-6 Chemical Thermodynamic) Ch- 7 (Equilibrium)	Complete Syllabus
PHYSICS	1.Physical world 2.Unit & Dimension. 3.Motion in straight line 4-Motion in plane	7. System of particles 5.Law of motion 6.Work, power & energy	First Book of NCERT complete ch-1 to 9 Ch- Mechanical properties of solids.	10.Mechanical properties of fluids 11. Thermal properties of matter	Complete Syllabus(First + Second Book)

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	MAY TEST	AUG TEST			
BIOLOGY	Ch-1 The living world. Ch-2 Biological Classification. Ch-3 Plant Kingdom.	Ch-4 Animal Kingdom. Ch-5 Morphology of flowering plant. Ch-6 Anatomy of flowering plant. Ch-7 Structural organization in Animal.	+ PA- May+Aug Test.) Ch-8 Cell: The unit of life. Ch-9 Biomolecules. Ch-10 Cell Cycle & Cell Division. Ch-11 Photosynthesis in higher plant.	Ch-12 Respiration in plant. Ch-13 Plant Growth & Development. Ch-14 Breathing & Excretion. Ch-15 Body Fluids & Circulation.	Ch-16 Excretory production & their elimination. Ch-17 Locomotion & Movement. Ch-18 Neural Control & Coordination. Ch-19 Chemical Coordination & Integration., PA-1,H.Y., PA-2
MATHS	Ch-1 (Sets) Ch- 2 (Relation and functions)	Ch- 3 (Trigonometry function) Ch-4 (Complex No, quad. Equation) Ch-5-Liner Inequalities	Syllabus of PA-1 + PA-2 Ch-6 (Permutation and combination) Ch-8 (Sequences and series)	Ch-7 (Binomials theorem) Ch-9 (Straight lines) Ch-10 (Conic sections) Ch-11 Introduction to 3-D geometry	Ch-12 (Limit & Derivative) Ch-13 (Statistics) Ch-14 (Probability) + All syllabus for PA-1,2, SA-1, PA-3
PHY. EDU.	Ch-1 (Changing Trends and career in Physical Education) Ch-2 (Olympic value Education)	Ch-3 (Yoga) Ch-4 (Physical Fitness wellness and lifestyle)	Ch-1 (Changing Trends and career in Physical Education) Ch-2 (Olympic value Education) Ch-3 (Yoga) Ch-4 (Physical Fitness wellness and lifestyle) Ch-5 (Physical and Sports for CWSP)	Ch-6 Leadership and Training Ch-7 test and measurement and Evaluation	Ch-1 to 7 Ch- 8- Fundamental of Anatomy Physiology Kinesiology Ch-9- Psychology and sports Ch-10- Training

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C.S.	Unit I: Computer Systems and Organisation <ul style="list-style-type: none"> Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB) Types of software: Operating System(OS): functions of the operating system, OS user interface 	Topics covered in PA-1 (1st)- 30% weightage <ul style="list-style-type: none"> Data Representation: Number System, Unicode, ASCII. Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits Unit II: Computational Thinking and Programming-I <ul style="list-style-type: none"> Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition. 	Topics Covered in PA -1 <ul style="list-style-type: none"> Python Fundamental Data Handling: Data types (Number, boolean, sequence, None, Mapping) Operators: arithmetic, relational, logical, assignment, augmented assignment, identity, membership. Expressions, evaluation of an expression,statement, type conversion, and input/output, precedence of operators, typeconversion, accepting data as input from the console and displaying output. Errors- syntax, logical, and run-time. Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow (for – loop, while loop) Conditional statements: if, if-else, if-elif-else, 	<ul style="list-style-type: none"> Topic Covered in PA -1 + SA-1 (30% weightage) String Manipulation:- operations,Traversing,Functions List Manipulation:- Indexing,operation,Functions,Traversing,linear search on list of numbers,counting the frequency of elements in a list. Tuple:- Indexing,operation,Functions,Traversing,linear search on tuple of numbers,counting the frequency of elements in a tuple. Dictionary:- Accessing elements,traversing,Functions, 	<ul style="list-style-type: none"> Topic Covered in PA -1 + SA1 + PA-2(70% weightage) Unit III: Society, Law and Ethics Digital Footprints, Data protection : Cyber Crime : Malware: Information Technoloy Act (IT Act)
Yoga	Unit -1 Intorduction to Yoga and yogic practices	Unit-2 Introduction to Yoga Tex-1	Unit-1 Unit-2	Unit-3 Yoga for Health promotion	All syllabus and practical work

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NCC					
Common Sub.	Unit -1 The NCC	Unit-3 Drill	Unit-1, 2, 3, 4, 5		Unit- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
	Unit-2 (National Integration & Awarenesss)	Unit-4 (Weapon Training) Unit-5 (Personality Development & Leadership)	Unit-6 (Disaster Management & Civil Affairs & community Development) Unit-8 (Health & Hygiene) Unit-9 (Adventure & obstacle Training) Unit-10 (Environmental Awareness & Conservation)		
Special Sub.	Unit -1 Armed Forces	Unit-2 (Map Reading)	Unit-3 (Field Craft & Battle Craft)	Unit-4 (Military History) Unit-5 (Communication)	Unit-1, 2, 3, 4, 5 Complete syllabus