




A.S.M. MODERN ACADEMY

A Senior Secondary Co-Educational School Affiliated to C.B.S.E NEW DELHI

SYLLABUS FOR ACADEMIC YEAR (2024-25)
CLASS - XI (SCIENCE)

SUBJECTS	PA-1		HALF-YEARLY	PA-2	ANNUAL
	MAY - TEST	AUG - TEST			
ENGLISH	Reading:- *Unseen passage *Writing *Pater Writing Grammar:- *Tense Literature:- 1. Hornbill *The Portrait of a lady (Prose) *A Photograph 2. Snapshots * The summer of the beautiful white horse.	Reading:- *Unseen passage *Writing Advertisement Grammar:- *Clauses Literature:- 1. Hornbill *We're not afraid to Die *The Laburnum Top 2. Snapshots * The Address	Reading:- *Unseen passage Writing:- *Poster *Advertisement *Speech Grammar:- *Tense *Clauses *Re-ordering of sentences Hornbill *Discovery Tut: The Saga continues *The voice of the Rain Snapshots *Mother's Day [A long with the previous syllabus]	Reading:- *Unseen passage Writing:- *Debate Grammar:- *Trans Formation of sentences Literature:- Hornbill *The Adventure *Childhood Snapshots *Birth	Reading:- *Unseen passage Writing:- *Poster *Advertisement *Speech *Debate Grammar:- *Tense *Clauses *Re-ordering of sentences *Transformations sentences Literature:- Hornbill *Silk Road *Father to son *Discovering Tut:- The saga cont *The Laburnum top *The portrait of a lady *We're not afraid to die * The voice of the Rain Snapshots *The Tale of Melon city *Birth *The Address
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-6 Chemical Thermodynamic) Ch- 7 (Equilibrium)	Complete Syllabus
PHYSICS	1.Physical world 2.Unit & Dimension. 3.Motion in straight line	4. Motion in plane 5.Law of motion 6.Work, power & energy	First Book of NCERT complete ch-1 to 8	9.Elasticity(Properties of solid) 10.Mechanical properties of fluids	Complete Syllabus(First + Second Book)
BIOLOGY	Ch-1 The living world. Ch-2 Biological Classification. Ch-3 Plant Kingdom.	Ch-4 Animal Kingdom. (+ P.A-1) 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. (+ H.Y.)	Ch-16 Excretory production & their elimination. Ch-17 Locomotion & Movement. Ch-18 Neural Control & Coordination. Ch-19 Chemical Coordination & Inlegration. PA-1,H.Y., PA-2

MATHS	Ch-1 (Sets) Ch-(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 of theover) Ch-9 (Straight lines) Ch-10 (Conic sections) Ch-11(3r)	Ch-12 (Limit & Derivate) Ch-13 (Statistics) Ch-14 (Probabilities) + 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 (CWSM) ☒	Ch-6 Leadership and Training Ch-7 test and measurement and Evaluation ☒	Ch-1 to 7 Ch- 8- Fundamental of Anotomy Physiologies Kinesiology Ch-9- Psychology and sports Ch-10- Training ☒
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, type-conversion, 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, ☒ 	• Topic Covered in PA -1 + SA-1 (30% weightage) <ul style="list-style-type: none"> • 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, 	• Topic Covered in PA -1 + SA-1 + PA-2(70% weightage) <ul style="list-style-type: none"> • Unit III: Society, Law and Ethics ☒ Digital Footprints, Data Protection: ☒ Cyber Crime: ☒ Cyber safety: ☒ Malware: ☒ Information Technology Act (IT Act) 

NAME & SIGNATURE OF CLASS TEACHER :