

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 - XII (Science)

Sub	PA-1		Holf Voorly / (C.A.T)	PA-2	Annual /
	MAY TEST	AUG TEST	Half Yearly / (S.A-I)	FA-2	(S.A-II)
PHYSICS	Ch-1 (Electric charge and field) Ch-2 (Electrostatic potential & capacitance) Ch-3 Current Electricity	Ch-4 (Moving charge & Magnetism) Ch-5(Magnifism & Matter) Ch-6 Electro magnetic Induction	Ch-1 (Electric charge and field) Ch-2 (Electrostatic potential & capacitance) Ch-3 (Current Electricity) Ch-4 (Moving charge & Magnetism) Ch-5 (Magnifism & Matter) Ch-6 Electromagnetic Induction. Ch-7 A.C. Ch-8 E.M. Waves Ch-9 Ray optics & optica Instuments Ch-10 Wave Optics	Full Syllabus	Pre- Board
CHEMISTRY	Ch-1(Solution) Ch-2(Electrochemistry) Ch-3 Chemical Kinetics	Ch-4 d & f block Element Ch-5 Coordination compound Ch-6 (Halo alkane & haloarenes)	Ch-1(Solution) Ch-2(Electrochemistry) Ch-3(Chemical Kinetics) Ch-4(d & f-block Element) Ch-5 Coordination compound Ch-6 (Halo alkane & haloarenes) Ch-7 Alcohol, Phenol & Ether Ch-8 Aldehyde, Ketone & Carboxylic Acid	Ch-1(Solution) Ch-2(Electrochemistry) Ch-3(Chemical Kinetics) Ch-4(d & f-block Element) Ch-5(Coordination Compound) Ch-6 (Halo alkane & haloarenes) Ch-7(Alcohol,Phenol & Ether) Ch-8(Aldehyde, Ketone and Carboxylic Acid) Ch-9(Amines) Ch-10(Biomolecules)	Pre- Board
BIOLOGY	Ch-1(Sexual Reproduction in Flowering plants.) Ch-2 (Human Reproduction) Ch-3 (Reproductive Health)	Ch-4 (Principal of inheritance & Variation) Ch-5 (Molecular Basis of Inheritance) Ch-6 (Evolution) Ch-7 (Human health & Disease)	Ch-8 (Microbes in Human willfare) Ch-9 Biotechnology-Principales & processes) Ch-10 (Biotechnology & Its Application) Ch-11 Organism & Population + PA-1 + SA-1	Ch-11 Organism & Population. Ch-12 Ecosystem. Ch-13 Biodiversity & Conversation. (All syllabus Covered in previous assessments)	Pre- Board

SYLLABUS FOR ACADEMIC YEAR (2025-26)

Class - XII (Science)

Sub	PA-1		Holf Voorder / (C. A. I.)	DA 2	Annual /
	MAY TEST	AUG TEST	Half Yearly / (S.A-I)	PA-2	(S.A-II)
MATHS	Ch-3 (Matrices) Ch-4 (Determinats) Ch-10 Vector	Ch-1(Relations & Functions) Ch-2 (Inverse trigonometric functions) Ch-5 (Continuity & Differentiability) Ch-11 Three dimensional Geometry Ch-12 Linear progaming	Ch-1(Relations & Functions) Ch-2 (Inverse trigonometric functions) Ch-3 (Matrices) Ch-4 (Determinants) Ch-5 (Continuity & Differentiability) Ch-6 (Application of Derivatives) Ch-7 (Integral) Ch-10 Vector Ch-11 Three dimensional geometry Ch-12 Linear programing)	Ch-1(Relations & Functions) Ch-2 (Inverse trigonometric functions) Ch-3 (Matrices) Ch-4 (Determinants) Ch-5 (Continuity & Differentiability) Ch-6 (Application of Derivatives) Ch-7 (Integral) Ch-8 (Application of Integrals) Ch-9 (Differential of Equations) Ch-10 (Vectors) Ch-11 (Three Dimensial Geomentry) Ch-12 (Linear Programming) Ch-13 (Probability) Full Syllabus	Pre-Board
PHY. EDU.	Unit-1 -Management and sporting. Unit -2 Children & Women in Sports.	3 Yoga as Preventive Message For life style. Unit-4 Physical Education & Sports For CSWN. Unit-5 Sports & Nutrition	Unit-1 -Management and sporting. Unit -2 Children & Women in Sports. Unit-3 Yoga as Preventive Message For life style. Unit-4 Physical Education & Sports For CSWN. Unit-5 Sports & Nutrition Unit-6 Test & Measurement. Unit-7 Physiology & Injuries in sports.	All Syllabus	Pre-Board

SYLLABUS FOR ACADEMIC YEAR (2025-26)

Sub	PA-1		Holf Voorly / (C. A. I)	BA 2	Annual /
	MAY TEST	AUG TEST	Tall Yearly / (S.A-1)	PA-2	(S.A-II)
Sub	MAY TEST Literature: Flamingo - Prose: 1. The Last Lesson 2. Lost Spring Poetry: 1. My Mother at Sixty Six Vistas - 1. The Third Level Writing Skills: 1. Invitations(Formal & Informal) 2. Replies to the inventions		Half Yearly / (S.A-I) Reading Skills: 1. Comprehension (factual/descriptive) 2. Case Study Writing Skills: 1. Notice Writing 2. Invitation & their replies 3. Job Application 4. Letter to the Edito Literature: Flamingo - Prose: 1. The Last Lesson, 2. Lost Spring 3. Deep Water, 4. The Rattrap 5. Indigo, 6. Poets and Pancakes Poetry: 1. My Mother at Sixty-Six, 2. Keeping Quiet 3. A Thing of Beauty Vistas - 1. The Tirger King	PA-2 Reading Skills: 1. Comprehension (factual,descriptive & literary) 2. Case Study Writing Skills: 1. Notice Writing 2. Invitation & their replies 3. Job Application 4. Letter to the Editor 5. Article Writing 6. Report Writing Literature: Flamingo - Prose: 1. The Last Lesson, 2. Lost Spring 3. Deep Water, 4. The Rattrap 5. Indigo, 6. Poets and Pancakes 7. The Interview, 8. Going Places Poetry: 1. My Mother at Sixty-Six 2. Keeping Quiet 3. A Thing of Beauty 4. A Roadside Stand 5. Augt Lennifer's Tigers	

Sub	PA-1		Half Yearly / (S.A-I)	PA-2	Annual /
Sub	MAY TEST	AUG TEST	Hall Yearly / (S.A-1)	I A-2	(S.A-II)
Tree Presents of the Present of the	Programming - 2 • Revision of Python opics covered in Class KI. • Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and forameters, default forameters, positional forameters, function eturning value(s), flow of execution, scope of a variable (global cope, local scope).	 Exception Handling: Introduction, handling exceptions using try-except-finally blocks Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipu-lation of data in a text file Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file CSV file: import csv module, open / close csv file, write into a csv file using writer(), writerow(), writerows() 	 Data communication terminologies: concept of communication, components of data communication (sender,receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiberoptic cable), Wireless media (Radio waves, Micro waves, Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible 	Unit III: Database Management ● Database concepts: introduction to database concepts and its need ● Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) ● Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equijoin and natural join ● Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries	Pre-Board

SYLLABUS FOR ACADEMIC YEAR (2025-26)

Class - XII (Science)

Sub	PA-1		Holf Voorly / (C.A. I)	PA-2	Annual /			
	MAY TEST	AUG TEST	Half Yearly / (S.A-I)	ra-2	(S.A-II)			
	NCC							
Common Sub.	Unit -1 The NCC Unit-2 (National Integration & Awarenesss)	Unit-3 Drill Unit-4 (Weapon Training) Unit-5 (Personality Development & Leadership)	Unit-1, 2, 3, 4, 5 Unit-6 (Disaster Management & Civil Affairs & community Development) Unit-8 (Health & Hygiene) Unit-9 (Adventure & obstacle Training) Unit-10 (Environmental Awareness & Conservation		Unit- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10			
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			