SPLIT UP SYLLABUS-2026- 2027

SUBJECT: COPUTER SCIENCE CLASS - XII

TERM- I: April 2026 to September 2026

Month	No of Working days/Periods	Unit	Activities
APRIL	**24**	**Revision of Python** • Revision of Python topics covered in Class XI. User Defined functions in Python • Functions : types of function (built in functions, functions defined in module, user defined functions), creating user defined function	
MAY	**7**	**User Defined functions in Python.** • Arguments and parameters, default parameters, positional parameters, fun	
JUNE	**12**	**Exception Handling** • Introduction • Errors in Python and Debugging (Syntax Error, Run-time Error, Logical Error • What is Exception Handling & Standard Exceptions in Python • Handling Exceptions in Python • Use of raise, assert and try…except with finally block File handling in Python • Introduction to files, types of files (Text, Binary, CSV), relative and absolute paths • Text file : opening, text file modes (r, r+, w, w+, a, a+), closing a text file, opening file using with clause, writing/appending data using write() and writelines(), reading from a text file using read().	
JULY	**26**	**File handling in Python.** • **Text file** : Use readline () and readlines(), seek and tell methods, manipulation 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	
AUGUST	**24**	• **CSV file** : import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader() Data Structure in Python **Data Structure in Python** • Stack, operations on stack (push & pop), • Implementation of stack using list. • Implementation of stack using list& Dictionary	
SEPTEMBER	**10**	• Revision of First Terminal (Syllabus of Term-1) **Database Management** • Database concepts : introduction to database concepts and its need • Relational data model : relation, attribute, tuple, domain, degree, cardinality, keys (candidate, primary, alternate, foreign, composite)	

TERM-II: October 2026 to February 2027

Month	No of Working days	Unit	Activities
OCTOBER	**21**	Database Management • SQL : Introduction to DDL and DML, data type (char(n), varchar(n), int, float, date), constraints(not null, unique, primary key), create database, Use database, show database, drop database, show tables, create table, describe table, alter table (add & remove an attribute, add & remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct, where clause, in, between, order by, meaning of null, is null, is not null, like, not like etc. • Update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins : Cartesian product on two tables, equi-join and natural join. Python MySQL Connectivity • Interface of python with an SQL database : connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications	
NOVEMBER	**16**	● Evolution of networking : computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) ● 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 media (Twisted pair, Co-axial, Fiber-optic), 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 Markup Language (XML), domain names, URL, website, web browser, webservers, webhosting	
DECEMBER	**21**	**Revision & Pre Board -1**	
JANUARY	**23**	**Pre-Board 2 & CBSE Practical's**	
FEBRUARY	**7**	FULL SYLLABUS REVISION	

Portion of Different Tests / Examinations of the Session 2026-27

Name of Exam/ Test	Portion
Periodic Test I	User Defined functions in Python
Periodic Test II	Exception Handling
Objective Test I	User Defined functions in Python, Exception Handling, File handling
Half Yearly	**April 2026 to September 2026** **(50% OF THE ENTIRE SYLLABUS)**
Periodic Test III	File handling in Python , Data Structure
Pre-Board 1	Full Syllabus
Pre-Board 2	Full Syllabus
Annual Exam	**October 2026 to February 2027** **(NEXT 50% OF THE ENTIRE SYLLABUS)**

SUBJECT: P.H.E. CLASS - XII

TERM- I :April 2026 to September 2026

Month	No of Working days	Unit	Activities
APRIL	**24**	**Management of Sporting Events** 1. Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) 2. Various Committees & their Responsibilities (pre; during & post) 3. Fixtures and their Procedures – Knock- Out (Bye & Seeding) & League (Staircase, Cyclic, Tabular method) and Combination tournaments 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance 5. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)	
APRIL - MAY	**07**	**Children & Women in Sports** 1. Exercise guidelines of WHO for different age groups. 1. Common postural deformities-knock knees, flat foot, round shoulders, Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures. 1. Women's participation in Sports-Physical, Psychological, and social benefits. 1. Special consideration (menarche and menstrual dysfunction) 1. Female athlete triad (osteoporosis, amenorrhea, eating disorders	
JUNE	**12**	**Yoga as Preventive measure for Lifestyle Disease** 1. Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama 1. **Diabetes:**. Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana,Bh ujangasana, Shalabhasana,Dhanurasana Supta- vajarasana, Paschimottanasan-a, Ardha- Mastendrasana, Mandukasana 1. **Asthma:** Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansan a, UttanMandukasan- 2. **Hypertension:**	
JULY	**26**	**Physical Education and Sports for CWSN (Children with Special Needs - Divyang)** 1. Organizations promoting Disability Sports (Special Olympics; Paralympis; Deaflympics) 1. Concept of Classification and Divisioning in Sports. 1. Concept of Inclusion in sports, its need, and Implementation; 1. Advantages of Physical Activities for children with special needs. 1. Strategies to make Physical Activities assessable for children with special needs.	

JULY		**CH-5 Sports & Nutrition** 1. Concept of balanced diet and nutrition 1. Macro and Micro Nutrients: Food sources & functions 1. Nutritive & Non- Nutritive Components of Diet 1. Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths 1. Importance of Diet in Sports-Pre, During and Post competition Requirements	
AUGUST	**24**	**CH-6Test & Measurement in Sports** 1. Fitness Test – SAI Khelo India Fitness Test in school: Age group 5-8 years/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Partial Abdominal Curl Up, Push-Ups for boys, Modified Push-Ups for girls). 1. Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise 1. Computing Basal Metabolic Rate (BMR) Rikli & Jones - Senior Citizen Fitness Test Chair Stand Test for lower body strength Arm Curl Test for upper body strength	

TERM- II: October 2026 to February 2027

Month	No of Working days	Unit	Activities
SEPTEMBER	**10**	**CH-7Physiology & Injuries in Sport** 1. Physiological factors determining components of physical fitness 1. Effect of exercise on the Muscular System 1. Effect of exercise on the Cardio- Respiratory System 2. Physiological changes due to aging 1. Sports injuries: Classification (Soft Tissue Injuries - Abrasion, Contusion, Laceration, Incision, Sprain & Strain Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted)	
OCTOBER	**21**	**CH-8 Biomechanics and Sports** 1. Newton's Law of Motion & its application in sports 2. Types of Levers and their application in Sports. 3. Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports 4. Friction & Sports 5. Projectile in Sports	

OCTOBER-NOVEMBER	**16**	**CH-9 Psychology and Sports** 1. Personality; its definition & types (Jung Classification & Big Five Theory) 1. Motivation, its type & techniques. 1. Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it 1. Meaning, Concept & Types of Aggressions in Sports 1. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk, Goal Setting **CH-10 Training in Sports** 1. Concept of Talent Identification and Talent Development in Sports 1. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle. 1. Types & Methods to Develop – Strength, Endurance, and Speed. 1. Types & Methods to Develop – Flexibility and Coordinative Ability. 1. Circuit Training - Introduction & its importance	

Portion of Different Tests / Examinations of the Session 2026-27

Name of Exam/ Test	Portion
Periodic Test I	**CH-1 Management of Sporting Events** **CH-2 Children & Women in Sports**
Periodic Test II	**CH-3Yoga as Preventive measure for Lifestyle Disease** **CH-4Physical Education and Sports for CWSN**
Objective Test I	**CH-1,CH-2,CH-3,CH-4**
Half Yearly	**April 2026 to September 2026** **(50% OF THE ENTIRE SYLLABUS)**
Periodic Test III	**Unit 6 Test & Measurement in Sports** **Unit 7 Physiology & Injuries in Sport**
Periodic Test IV	**Unit 8 Biomechanics and Sports** **Unit 9 Psychology and Sports**
Objective Test II	**CH-6,CH-7,CH-8,CH-9 CH-10**
Annual Exam	**CONDUCT BY CBSE**

Blue Print of Question Paper
HALF YEARLY (2026-27)

S.No	Chapter name	MCQ	Fill ups	Very Short Ans	Short Ans	Long Ans (4MARKS)	LONG (5MARKS)	Marks
1	CH-1 Management of Sporting Events	5		1	2	-	1	
2	CH-2 Children & Women in Sports	4		1	-	1	1	
3	CH-3 Yoga as Preventive measure for Lifestyle Disease	3		-	1	1	1	
4	CH-4 Physical Education and Sports for CWSN	2		2	2	1	-	
5	CH-5- Sports & Nutrition	4		2	1	-	1	

SUBJECT: APPLIED MATHEMATICS (241)
CLASS :12
TERM-I: APRIL TO SEPTEMBER 2026

MONTHS	NO. OF WORKING DAYS	UNITS	ACTIVITY
APRIL	24	MATRICES, DETERMINANTS NUMERICAL INEQUALITIES	ACTIVITY 1 MIND MAP FOR MATRICES AND TYPES OF MATRICES
MAY	7	NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS	
JUNE	12	DIFFERENTIATION	ACTIVITY 2 GRAPHICAL REPRESENTATION OF LINEAR INEQUALITY ACTIVITY 3 MIND MAP FOR NUMBER THEORY
JULY	26	APPLICATION OF DERIVATIVES	ACTIVITY 4 GEOMETRICAL MEANNING OF DERIVATIVE ACTIVITY 5 MAXIMA AND MINIMA RELATED PROBLEM (CASE BASED)
AUGUST	24	INTEGRALS (IN-DEFINITE AND DEFINITE) APPLICATION OF INTEGRALS	ACTIVITY 6 GEOMETRICAL CONCEPT OF INTEGRALS (DEFINITE) ACTIVITY 7 GROWTH AND DECAYMODEL PROBLEM (APPLICATION OF DIFFERENTIAL EQUATION)
SEPTEMBER	10	REVISION AND FIRST TERM EXAMINATION (SYLLABUS COMPLETED TILL AUGUST)	

TERM-II OCTOBER 2026 TO FEBRUARY 2027

MONTHS	NO. OF WORKING DAYS	UNIT	ACTIVITIES
OCTOBER	21	DIFFERENTIAL EQUATIONS PROBABILITY LINEAR PROGRAMMINGP ROBLEMS(LPP)	ACTIVITY 8 LAW OF TOTAL PROBABILTY AND BAYES' THEOREM ACTIVITY9 LPP APPLICATION(CASEBASED)
NOVEMBER	16	INFERENTIAL STATISTICS TIME-BASEDDATA, PERPETUITY, SINKING FUNDS AND EMI, RETURNS, GROWTHAND DEPRECIATION	ACTIVITY10 FINANCIAL MATHEMATICS IN REAL LIFE (USE, CALCULATION, BENEFITS)
DECEMBER	21	PRE-BOARD EXAMINATION-I	
JANUARY	23	PRE-BOARD EXAMINATION-II	
FEBRUARY	7	CASE BASED PROBLEMS, MCQ AND REVISION AND BOARD EXAMINATION	

PORTION OF DIFFERENT TESTS/ EAXAMINATION OF THE SESSION 2026-27

NAME OF EXAM/TEST	PORTION
PERIODIC TEST-I	MATRICES, DETERMINANTS NUMERICAL INEQUALITIES, NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS
PERIODIC TEST II	DIFFERENTIATION, APPLICATION OF DERIVATIVES, INTEGRALS (IN-DEFINITE AND DEFINITE) APPLICATION OF INTEGRALS
OBJECTIVE TEST-I	MATRICES, DETERMINANTS NUMERICAL INEQUALITIES, NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS, DIFFERENTIATION, APPLICATION OF DERIVATIVES, INTEGRALS (IN-DEFINITE AND DEFINITE) APPLICATION OF INTEGRALS
HALF YEARLY EXAM	MATRICES, DETERMINANTS NUMERICAL INEQUALITIES, NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS, DIFFERENTIATION, APPLICATION OF DERIVATIVES, INTEGRALS (IN-DEFINITE AND DEFINITE) APPLICATION OF INTEGRALS
PERIODIC TEST-III	DIFFERENTIAL EQUATIONS PROBABILITY LINEAR PROGRAMMINGP ROBLEMS(LPP),
PERIODIC TEST-IV	INFERENTIAL STATISTICS TIME-BASEDDATA, PERPETUITY, SINKING FUNDS AND EMI, RETURNS, GROWTHAND DEPRECIATION
OBJECTIVE TEST -II	DIFFERENTIAL EQUATIONS PROBABILITY LINEAR PROGRAMMINGP ROBLEMS(LPP), INFERENTIAL STATISTICS TIME-BASEDDATA, PERPETUITY, SINKING FUNDS AND EMI, RETURNS, GROWTHAND DEPRECIATION
ANNUAL EXAMINATION	MATRICES, DETERMINANTS NUMERICAL INEQUALITIES, NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS, DIFFERENTIATION, APPLICATION OF DERIVATIVES, INTEGRALS (IN-DEFINITE AND DEFINITE) APPLICATION OF INTEGRALS, DIFFERENTIAL EQUATIONS PROBABILITY LINEAR PROGRAMMINGP ROBLEMS(LPP), INFERENTIAL STATISTICS TIME-BASEDDATA, PERPETUITY, SINKING FUNDS AND EMI, RETURNS, GROWTHAND DEPRECIATION

Blue Print of Question Paper
HALF YEARLY (2026-27)

S. No	Chapter name	MCQ	AR	Very Short Ans	Short Ans	Long Ans	CBS	Marks
1	MATRICES	4	1	1		1	1	16
2	DETERMINANTS			2	1			3
3	NUMERICAL INEQUALITIES	2		2			1	6
4	NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS	3			1			14
5	DIFFERENTIATION	4	1			2	1	15
6	APPLICATION OF DERIVATIVES	1			1	1		13
7	INTEGRALS (IN-DEFINITE AND DEFINITE)	4			1			7
8	APPLICATION OF INTEGRALS				2			6
NO OF QUESTIONS		18	2	5	6	4	3	38Qs
TOTAL MARKS		18	2	10	18	20	12	80M

Blue Print of Question Paper
ANNUAL EXAM (2026-27)

S. No	Chapter name	MCQ 1M	AR 1M	Very Short Ans 2M	Short Ans 3M	Long Ans 5M	CBS 4M	Marks
1	Quantitative Aptitude	2		1	2			10
2	Numerical Inequality	1						1
3	Matrices	2						2
4	Determinants	2	1			1		8
5	Differentiation	1						1
6	Application of derivatives				1			3
7	Integration	1						1
8	Consumer surplus and producer Surplus						1	4
9	Differential Equation	1				1		6
10	Probability	1	1	2			1	10
11	Inferential Statistics	2			1			5
12	Time Series	1				1		6
13	perpetuity	2			1			5
14	Depreciation			1				2
15	EMI	1			1			4
16	Sinking fund and bond						1	4
17	LPP	1		1		1		8
	TOTAL	18	2	5	6	4	3	80

Painting

Month	Working Days	Topic	Chapter Content
April	24	Indian Painting (Rajasthani School)	Pala School, Central Painting, Mewar, Bundi, Jodhpur, Kishangarh
May	07	Pahari School	Basohli, Kangra
June	12	The Mughal School	Kabir and Raidas, Falcon on a Bird, Krishna Lifting Mount Goverdhana
July	26	The Deccan School	Chand Bibi Playing Polo, Hazrat Nizamuddin Auliya
August	24	Bengal School	Journey's End, Shiva and Sati, Radhika, Meghdoot
September	10	Modern Painting	Haldi Grinder, Mother Teresa, Mother and Child
October	21	Graphics Prints	Children, Devi, Off Walls, Man, Woman and Tree
November	16	Indian Sculpture	Santhal Family, Ganesha, Triumph of Labour
December	21	All Chapters	Revision