

DAV PUBLIC SCHOOLS, ZONE - B

SPLIT UP SYLLABUS-2026- 2027

SUBJECT: Computer Science

CLASS - XI

TERM-I: April 2026 to September 2026

Month	No of Working days / NO. OF HOURS REQUIRED AS PER CBSE GUIDELINES	Unit
JUNE	10 - 15 HOURS / PERIODS for Unit 1	Unit 1 : Computer Systems and Organisation - Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems - Basic computer organization: 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: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software - Operating System (OS) : functions of the operating system, OS user interface NUMBER SYSTEM - BASIC COMPUTER ORGANIZATION, INPUT AND OUTPUT DEVICES, UNITS OF MEMORY ETC., Boolean logic : NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits Encoding Schemes : ASCII, ISCII, and Unicode (UTF8, UTF32)
JULY	80 HOURS / PERIODS for Unit 2	Unit 2: Computational Thinking and Programming I 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 - Familiarization with the basics of Python programming : Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes : interactive mode and script mode, Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments - Knowledge of data types : Number (integer, floating point, complex), boolean, sequence(string, list, tuple), None, Mapping (dictionary), mutable and immutable data types. Operators : arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)
AUG UST		- Expressions, statement, type conversion, and input/ output : precedence of operators, expression, evaluation of an expression, type-conversion (explicit and Implicit conversion), accepting data as input from the console and displaying output. - Errors- syntax errors, logical errors, and run-time errors - Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow - Conditional statements : if, if-else, if-elif-else, flowcharts, simple programs: e.g.: Absolute value, sort 3 numbers and divisibility of a number. Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern,

		summation of series, finding the factorial of a positive number, etc.
SEPT EMB ER		REVISION SYLLABUS FOR TERM 1 - Unit 1: Computer Systems and Organisation- All topics of Unit -1 ● Unit 2: Computational Thinking and Programming – I up to looping statements for & while.

TERM-II: October 2026 to February 2027

Month	No of Working days	Unit
OCTOBER		Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods–len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(),rstrip(), strip(), replace(), join(), partition(), split()
NOVEMBER		Lists : introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/methods– len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list. SYLLABUS FOR UT-3 –FOR LOOP, WHILE LOOP, STRINGS
DECEMBER		Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); builtin functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple. Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary,
JANUARY		built-in functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted(); Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them. ● Introduction to Python modules: Importing module using ‘import ’ and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()). Unit 3: Society, Law and Ethics ● Digital Footprints Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes ● Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)
FEBRUARY	20 HOURS / PERIODS for Unit 3	● Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransom ware, cyber trolls, cyber bullying ● Cyber safety: safely browsing the web, identity protection, confidentiality ● Malware: viruses, trojans, adware ● E-waste management: proper disposal of used electronic gadgets. ● Information Technology Act (IT Act)

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

Section A: 18 Multiple Choice Questions (MCQs) of 1 mark each (18 Marks).

Section B: 7 Very Short Answer questions of 2 marks each (14 Marks).

Section C: 5 Short Answer questions of 3 marks each (15 Marks).

Section D: 3 Long Answer questions of 5 marks each (15 Marks).

Section E: 2 Case-based questions of 4 marks each (8 Marks).

Unit-Wise Marks Distribution (Approximate)

- Computer Systems and Organisation: 10-15 Marks.
- Computational Thinking and Programming - 1 (Python): 40-45 Marks.
- Society, Law and Ethics: 10-15 Marks.

Practical Exam Structure (30 Marks)

- **Lab Test (12 Marks):** Python program logic (60%), documentation (20%), code quality (20%).
- **Report File & Viva (10 Marks):** Minimum 20 Python programs.
- **Project (8 Marks):** Society, Law and Ethics-based project.

SUBJECT: PAINTING

CLASS - XI

TERM-I : April 2026 to September 2026

Month	No of Working days	Unit	Activities
APRIL		--	
MAY		--	
JUNE	12	UNIT-1: ROLE OF PHYSICAL EDUCATION IN CHILD DEVELOPMENT CH-1Physical and emotional needs of children Health triangle Physical health Mental health Social health	Communication Skills-III
JULY		(CH-2) Factors affecting physical fitness Influence of sports in well being Influence of society on sports based on Environment Economy Technology	Unit 2: Self-management Skills-III

	26	Political (CH-3) CREATE DIFFERENT LEVELS OF PHYSICAL ACTIVITIES PLANNING FOR CHILDREN Identifying physical activity sessions Structuring physical activity sessions Macro-planning Meso-planning Micro-planning Weekly planning Yoga and their benefits Lesson plans for various physical activities	
AUGUST	24	UNIT 2: PROPS AND EQUIPMENT CH-4 1 Identify the various factors that need to be considered while selecting props and equipment Selection of props and equipment Purpose and importance of props and equipment Factors affecting the selection of props and equipment CH-5 Identify the reasons affecting the playground and equipment condition Inspection of Playfields Low frequency inspections High frequency inspections Maintenance of sport facilities	
SEPTEMBER	10	SA -1	

TERM-II : October 2026 to February 2027

Month	No of Working days	Unit	Activities
OCTOBER	21	UNIT 3: HYGIENE AND SAFETY CH-6 Identify the steps required in maintenance of hygiene in play area Maintenance of hygiene in Play Area	Unit 3: Information and Communication Technology Skills-III
NOVEMBER	16	CH-7 Demonstrate the knowledge of basic First-Aid practices First Aid First Aid - Purpose and basic principle Cuts and bruises 4. Heat exhaustion Breathing difficulties Choking Basic sports injuries Sprain	Unit 4: Entrepreneurial Skills-III

		Strain First Aid for Sprains Concept of First Aid kit	
DECEMBER	21	CH-8 Identify sports injuries and its rehabilitation processes Types of sports injuries How do you prevent sports injuries? First Aid – CPR (Cardiopulmonary resuscitation) Rehabilitation of sports injuries Exercise for rehabilitation UNIT 4: SPORTS AND FITNESS CH -9 Describe the criteria for selecting yearly sports activities Health and Physical fitness Benefits of Physical fitness Stages of Team selection Process of Talent Detection, Identification and Development Football Basketball Volleyball	Unit 5: Green Skills-III
JANUARY	23	CH-10 Identify resources required for organizing sports competition Organizing sports day Pre Sports Day Sports Day Post Sports Day Organizing Tournament Pre-tournament Day Tournament Day Post-tournament Day CH-11 .Importance of fitness sessions Aerobic capacity Anaerobic capacity Strength Flexibility Warm-up Benefits of Proper Warm-up	
FEBRUARY	07	FINAL EXAMINATION	

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

Name of Exam/ Test	Portion
Periodic Test I	UNIT 1,CH-1,CH-2,CH-3
Periodic Test II	UNIT 2CH-4,CH-5
Objective Test I	UNIT- 1& UNIT -2
Half Yearly	UNIT 1,CH-1,CH-2,CH-3 UNIT 2 CH-4,CH-5

	Communication Skills-III Self-management Skills-III
Periodic Test III	UNIT 3 CH-6,CH-7,CH-8
Periodic Test IV	UNIT 4 CH-9,CH-10,CH-11
Objective Test II	UNIT4 & UNIT 5
Annual Exam	UNIT 3 CH-6,CH-7,CH-8 UNIT 4 CH-9,CH-10,CH-11 : Information and Communication Technology Skills-III : Entrepreneurial Skills-III : Green Skills-III

Blue Print Of Question Paper

HALF YEARLY (2026-27)

S.No	Chapter name	MCQ	Fill ups	Very Short Ans	Short Ans	Long Ans	VBQ	Marks
1	Communication Skills-III	3	-	-	3	-		
2	: Self-management Skills-III	3		-	2	-		
3	CH-1Physical and emotional needs of children	6	-	-	2	1		
4	(CH-2) Factors affecting physical fitness	6	-	-	1	1		
5	CH-3CREATE DIFFERENT LEVELS OF PHYSICAL ACTIVITIES PLANNING FOR CHILDREN	6	-	-	1	1		
6	CH-4 1 Identify the various factors that need to be considered while selecting props and equipment	6	-	-	1	1		
7	CH-5 Identify the reasons affecting the playground and equipment condition	6	-	-	1	1		

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ANNUAL EXAM(2026-27)

S.No	Chapter name	MCQ	Fill ups	Very Short Ans	Short Ans	Long Ans	VBQ	Marks
1	: Information and Communication Technology Skills-III	2	-	-	2	-		
2	: Entrepreneurial Skills-III	2	-	-	2	-		
3	Green Skills-III	2	-	-	1	-		
4	CH-6 Identify the steps required in maintenance of hygiene in play area	5	-	-	1	1		
5	CH-7 Demonstrate the knowledge of basic First- Aid practices	5	-	-	1	1		
6	CH-8 Identify sports injuries and its	5	-	-	1	1		

	rehabilitation processes							
7	CH -9 Describe the criteria for selecting yearly sports activities	5	-	-	1	1		
8	CH-10 Identify resources required for organizing sports competition	5	-	-	1	1		
9	CH-11 .Importance of fitness sessions	5	-	-	1			

SUBJECT: APPLIED MATHEMATICS (241)

CLASS :11

TERM-I: APRIL TO SEPTEMBER 2026

MONTHS	NO. OF WORKING DAYS	UNITS	ACTIVITY
JUNE	12	NUMBERS, INDICES AND LOGARITHMS QUANTITATIVE APTITUDE, MENSURATION	
JULY	26	SETS AND RELATIONS, SEQUENCE AND SERIES	ACTIVITY1 VENN DIAGRAM FOR THREE SETS ACTIVITY 2 SUM OF FIRST n NATURAL NUMBERS
AUGUST	24	FUNCTIONS LOGICAL REASONING	ACTIVITY 3 PASCAL TRIANGLE ACTIVITY 4 BLOOD RELATION
SEPTEMBER	10	REVISION AND FIRST TERM EXAMINATION (SYLLABUS COMPLETED TILL AUGUST)	

TERM-II: OCTOBER 2026 TO FEBRUARY 2027

MONTHS	NO OF WORKING DAYS	UNITS	ACTIVITIES
OCTOBER	21	FUNCTIONS PERMUTATIONS AND COMBINATIONS LIMITSAND CONTINUITY DIFFERENTIATION	ACTIVITY 5 MIND MAP FOR TYPES OF FUNCTIONS ACTIVITY 6 GRAPH OF DIFFERENT FUNCTIONS
NOVEMBER	16	PROBABILITY, DESCRIPTIVE STATISTICS	ACTIVITY 7 GEOMETRICAL MEANNING OF DERIVATIVES ACTIVITY 8 SAMPLE SPACE FOR DIFFERENT EXPERIMENT IN PROBABILITY
DECEMBER	21	COMPOUND INTEREST AND ANNUITY TAXATION, UTILITY BILLS	ACTIVITY 9 TO CALCULATE AN ELECTRICITY BILL
			ACTIVITY 10

JANUARY	23	STRAIGHT LINE, CIRCLE AND PARABOLA	FAMILY LINES/GEOMETRIC CONCEPT OF CIRCLE OR PARABOLA
FEBRUARY	7	REVISION AND ANNUAL EXAMINATION	

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

NAME OF EXAM/TEST	PORTION
PERIODIC TEST-I	NUMBERS, INDICES AND LOGARITHMS QUANTITATIVE APTITUDE, MENSURATION, SETS AND RELATIONS
PERIODIC TEST II	SEQUENCE AND SERIES, FUNCTIONS LOGICAL REASONING
OBJECTIVE TEST-I	NUMBERS, INDICES AND LOGARITHMS, QUANTITATIVE APTITUDE, MENSURATION, SETS AND RELATIONS, SEQUENCE AND SERIES, FUNCTIONS LOGICAL REASONING
HALF YEARLY EXAM	NUMBERS, INDICES AND LOGARITHMS, QUANTITATIVE APTITUDE, MENSURATION, SETS AND RELATIONS, SEQUENCE AND SERIES, FUNCTIONS, LOGICAL REASONING
PERIODIC TEST-III	FUNCTIONS PERMUTATIONS AND COMBINATIONS LIMITS AND CONTINUITY DIFFERENTIATION, PROBABILITY, DESCRIPTIVE STATISTICS
PERIODIC TEST-IV	COMPOUND INTEREST AND ANNUITY, TAXATION, UTILITY BILLS, STRAIGHT LINE, CIRCLE AND PARABOLA
OBJECTIVE TEST -II	FUNCTIONS PERMUTATIONS AND COMBINATIONS, LIMITS AND CONTINUITY DIFFERENTIATION, PROBABILITY, DESCRIPTIVE STATISTICS, COMPOUND INTEREST AND ANNUITY TAXATION, UTILITY BILLS, STRAIGHT LINE, CIRCLE AND PARABOLA
ANNUAL EXAMINATION	NUMBERS, INDICES AND LOGARITHMS, QUANTITATIVE APTITUDE, MENSURATION, SETS AND RELATIONS, SEQUENCE AND SERIES, FUNCTIONS, LOGICAL REASONING, FUNCTIONS PERMUTATIONS AND COMBINATIONS LIMITS AND CONTINUITY DIFFERENTIATION, PROBABILITY, DESCRIPTIVE STATISTICS, COMPOUND INTEREST AND ANNUITY TAXATION, UTILITY BILLS, STRAIGHT LINE, CIRCLE AND PARABOLA.

Blue Print of Question Paper

HALF YEARLY (2026-27)

S.No	Chapter name	MCQ(1M)	AR(1M)	Very Short Ans(2M)	Short Ans (3M)	Long Ans(5M)	CBS(4M)	Marks
1	NUMBERS	2		1				4
2	INDICES AND LOGARITHMS	4		2	1			11
3	QUANTITATIVE APTITUDE, MENSURATION	2	1		1	1		11
4	SETS AND RELATIONS	2		1	1		1	11
5	SEQUENCE AND SERIES	5	1		2	2	1	26
6	FUNCTIONS	2		1		1	1	13
7	LOGICAL REASONING	1			1			4
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	MCQs(1M)	AR(1M)	Very Short Ans (2M)	Short Ans (3M)	Long Ans(5M)	CBS(4M)	Marks
1	NUMBERS	1						1
2	INDICES AND LOGARITHMS	1		1				3
3	QUANTITATIVE APTITUDE,	1		1	1			6
4	MENSURATION	1		1				3
5	SETS AND RELATIONS	2			1			5
6	SEQUENCE AND SERIES	2				1		7
7	PERMUTATION AND COMBINATION	2			1			5
8	LOGICAL REASONING	1	1	1				4
9	FUNCTIONS				1	1		8
10	LIMIT AND CONTINUITY					1		5
11	PROBABILITY						1	4
12	DISCRIPTIVE STATISTICS	2			1	1		10
13	C.I AND ANNUITY	1		1				3
14	TAXATION	1						1
15	STRAIGHT LINE	2			1		1	9
16	CIRCLE AND PARABOLA	1	1				1	6
NO. OF QUESTIONS		18	2	5	6	4	3	38 Qs
TOTAL MARKS		18	2	10	18	20	12	80M