



N.C. JINDAL PUBLIC SCHOOL

PUNJABI BAGH (W), NEW DELHI – 110026

CLASS VII

COMPUTATIONAL THINKING AND ARTIFICIAL INTELLIGENCE (CT & AI)

SYLLABUS – SESSION 2026–2027

SYLLABUS DETAILS (COMPUTATIONAL THINKING)

MONTH	CHAPTER / TOPIC	KEY LEARNING AREAS
August	Large Numbers Around Us	Multi-digit logic, place values, and estimation
August	Arithmetic Expressions	Evaluating precedence, nested operations, and optimization
September	Expressions Using Letter-Numbers	Algebraic patterns, variables, and functional relationships
October	Parallel and Intersecting Lines	Spatial reasoning and geometric constraints
October	Number Play	Multi-rule numerical sequences and divisibility constraints
November	A Peek Beyond the Point	Decimals, precision, and floating-point logic
December	A Tale of Three Intersecting Lines	Triangles, spatial properties, and logical proofs
December	Working with Fractions	Rational number algorithms and proportional reasoning
January	Revision Work	Comprehensive review and practice of key concepts
February	Final Assessment	End-of-term evaluation and outcome measurement

SYLLABUS DETAILS (ARTIFICIAL INTELLIGENCE)

MONTH	CHAPTER/TOPIC	KEY LEARNING AREAS
July - August	Chapter 1 - AI Domains & Applications	AI domains, Predictive techniques, Small datasets, Computer Vision, Natural Language Processing, Data Science
October	Chapter 2- AI in Industries	AI in healthcare, Education, Transport, Communication, Benefits of AI
November	Chapter 3-Data Visualization and Analysis	Collecting and organising data, Data visualization, Interpreting data
December	Chapter 4-Ethics and AI Bias Awareness	Ethics in AI, Bias in AI, Responsible and fair use, Digital citizenship
February	Revision	

ASSESSMENT & MARKS DISTRIBUTION

RUBRICS	MAXIMUM MARKS	GRADING CRITERIA
CT		
Problem Decomposition	5	Breakdown of tasks
Pattern Recognition	5	Pattern identification
Abstraction	5	Key detail focus
Algorithm Design	5	Step-by-step planning
TOTAL(CT)	20	
AI		
Online Assessment	10	Multiple Choice Questions
Total(CT+AI)	30	

GRADING CRITERIA

GRADE	MARKS
A	20 to 30
B	10 to less than 20
C	0 to less than 10