

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN

SUBJECT: COMPUTATIONAL THINKING AND ARTIFICIAL INTELLIGENCE (CT & AI)

Text Book: Computational Thinking and Artificial Intelligence - Class 7 - Student Handbook

MONTH	W.D.	COURSE CONTENT	SL NO.	LEARNING OUTCOMES
April	22	-----		-----
May	12	-----		-----
June	14	Large Numbers Around Us [INTEGRATED WITH MATHEMATICS] AI Domains and Applications [INTEGRATED WITH AI]	A	The learner- <ul style="list-style-type: none"> • Develops high-order thinking skills by using logical deduction and place value properties to solve complex multi-digit number puzzles and arithmetic properties. • Distinguish key predictive techniques such as Regression, Classification and Clustering.
PERIODIC TEST - 1 : 25.06.2026 TO 04.07.2026				
July	26	Arithmetic Expressions A Peek Beyond the Point [INTEGRATED WITH MATHEMATICS] AI Domains and Applications [INTEGRATED WITH AI]	B	The learner- <ul style="list-style-type: none"> • Solves multi-step arithmetic problems and interpret data tables to perform logical optimizations involving time intervals and operations. • Explains about the key domains namely Machine Learning, Computer Vision and NLP.
August	22	Expressions using Letter-Numbers [INTEGRATED WITH MATHEMATICS] AI in Industries [INTEGRATED WITH AI]	C40	The learner- <ul style="list-style-type: none"> • Interprets relative positions, orientations, and viewpoints of objects in advanced visual scenarios. • Identifies the role and efficiency of AI in different industries such as health care, agriculture, education etc.
HALF YEARLY : 01.09.2026 TO 15.09.2026				
September	25	Parallel and Intersecting Lines [INTEGRATED WITH MATHEMATICS] Data Visualization and Analysis [INTEGRATED WITH AI]	D	The learner- <ul style="list-style-type: none"> • Visualises and analyzes 3D objects and their transformations, including rotations, reflections, cross-sections, and nets. • Identifies different visualizations, techniques used to represent AI Generated data effectively.
October	18		E	The learner-

		Number Play [INTEGRATED WITH MATHEMATICS] Data Visualization and Analysis [INTEGRATED WITH AI]	56	<ul style="list-style-type: none"> Identifies hidden relationships and constraints within incomplete figures, patterns, or logical setups. Analyses the datasets to identify patterns, sets and insights.
November	19	A Tale of Three Intersecting Lines [INTEGRATED WITH MATHEMATICS] Data Visualization and Analysis [INTEGRATED WITH AI]	F	The learner- <ul style="list-style-type: none"> Analyses symmetry, congruence, and proportional reasoning across different representations. Interprets relative positions, orientations, and viewpoints of objects in advanced visual scenarios.
December	21	Working with Fractions [INTEGRATED WITH MATHEMATICS] Ethics and AI Bias Awareness [INTEGRATED WITH AI]	G	The learner- <ul style="list-style-type: none"> Applies fractional reasoning and area-model visualizations to solve multi-step word problems and identify mathematical patterns involving remainders and repeated partitions. Understands the importance of ethics in AI and its impact on society.
PT - 3 : 22.12.2026 TO 24.12.2026 & 05.01.2027 TO 07.01.2027				
January	21	Working with Fractions [INTEGRATED WITH MATHEMATICS] Ethics and AI Bias Awareness [INTEGRATED WITH AI]	H	The learner- <ul style="list-style-type: none"> Identifies hidden relationships and constraints within incomplete figures, patterns, or logical setups. Identifies different types of AI bias and their effects on decision-making system.
ANNUAL EXAMINATION : 15.02.2027 TO 26.02.2027				
February	23		-----	
March	23		-----	