

ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2024-25

CLASS – 9th

SUBJECT- ARTIFICIAL INTELLIGENCE

SL. NO.	MONTH & WORKING DAYS	CONTENT
1.	APRIL, 13 DAYS	UNIT 5: INTRODUCTION TO PYTHON (Part B) <ul style="list-style-type: none"> ● Introduction to Python language ● Introducing python programming and its applications Python Basics Variables, Arithmetic Operators, Expressions, Comparison Operators, logical operators, Assignment Operators,
2.	JUNE, 16 DAYS	Python Basics Data Types - integer, float, strings, type conversion, using print() and input() functions
3.	JULY, 25 DAYS	Errors in Python Flow of control and conditions – if , for and while Python Lists
4.	AUG, 23 DAYS	Python Lists(Cont.) UNIT 1: AI REFLECTION, PROJECT CYCLE AND ETHICS (Part B) Introduction to AI and setting up the context of the curriculum Introduction to AI Project Cycle <ul style="list-style-type: none"> ● Problem Scoping ● Data Acquisition ● Data Exploration ● Modeling ● Evaluation ● Deployment Ethics AI Bias and AI Access

5.	<p style="text-align: center;">SEPT, 21 DAYS</p>	<p>UNIT 2: DATA LITERACY (Part B) Basics of data literacy</p> <ul style="list-style-type: none"> ● Introduction to Data Literacy ● Impact of data Literacy ● How to become Data Literate? ● What are data security and privacy? How are they related to AI? ● Best Practices for Cyber Security <p>Acquiring Data, Processing, and Interpreting Data</p> <ul style="list-style-type: none"> ● Types of data ● Data Acquisition/Acquiring Data ● Best Practices for Acquiring Data ● Features of data and Data Preprocessing ● Data Processing and Data Interpretation <p>UNIT 2: DATA LITERACY (Part B) Acquiring Data, Processing, and Interpreting Data</p> <ul style="list-style-type: none"> ● Types of Data Interpretation ● Importance of Data Interpretation ● Data visualization Using Tableau <p>Unit 1: Communication Skills-I (Part A)</p>
6.	<p style="text-align: center;">OCT, 15 DAYS</p>	<p>UNIT 3: MATH FOR AI (Statistics & Probability) (Part B) Importance of Math for AI</p> <ul style="list-style-type: none"> ● Finding Patterns in Numbers and images. <p>Uses of Math –</p> <ul style="list-style-type: none"> ○ Statistics ○ Linear Algebra ○ Probability ○ Calculus <p>Definition of Statistics</p> <ul style="list-style-type: none"> ● Applications <ul style="list-style-type: none"> ○ Disaster Management ○ Sports ○ Diseases Prediction ○ Weather Forecast <p>UNIT 3: MATH FOR AI (Statistics & Probability) (Part B) Introduction to Probability</p> <ul style="list-style-type: none"> ● How to calculate the probability of an event

		<ul style="list-style-type: none"> ● Types of events ● understand the concept of Probability using a relatable example. <p>Applications of Probability</p> <ul style="list-style-type: none"> ● Sports ● Weather Forecast ● Traffic Estimation <p>Unit 2: Self-Management Skills-I (Part A)</p>
7.	NOV, 21 DAYS	<p>Unit 3: ICT Skills-I (Part A)</p> <p>UNIT 4: INTRODUCTION TO GENERATIVE AI (Part B)</p> <p>Introduction to Generative AI Generative AI vs Conventional AI Types of Generative AI</p>
8.	DEC, 17 DAYS	<p>UNIT 4: INTRODUCTION TO GENERATIVE AI (Part B)</p> <p>Examples of Generative AI Benefits of using Generative AI Limitations of using Generative AI Ethical considerations of using Generative AI</p>
9.	JAN, 24 DAYS	<p>Unit 4: Entrepreneurial Skills-I (Part A)</p> <p>Unit 5: Green Skills-I (Part A)</p>
10.	FEB, 22 DAYS	REVISION
11.	MARCH, 23 DAYS	

BOOKS: ORANGE PUBLICATIONS