

**ARMY PUBLIC SCHOOL, KANDRORI**  
**SPLIT-UP SYLLABUS (Subject – ARTIFICIAL INTELLIGENCE)**  
**SESSION: 2022-23**

**CLASS- IX**

S. No.	Month	Expected No. of Working Days	Chapter	Detailed Split Up Syllabus	Periods for class room Teaching	Practical
1.	April	23	Part – A Communication Skill	Communication Definition Methods of Communication Verbal Communication Non-verbal Communication Communication Cycle and Importance of Feedback Barriers to Effective Communication	08	-
2	May	15	Part – A Self management skills	Stress Management Self-awareness - Strength and Weakness Analysis Self-motivation Self-regulation — Goal Setting	04	-
3	June	0	vacations	-	-	-
4	July	23	Part – B Unit 1: Introduction to Artificial Intelligence (AI)	To identify and appreciate Artificial Intelligence and describe its applications in daily life. To relate, apply and reflect on the Human-Machine Interactions. To identify and interact with the three domains of AI: Data, Computer Vision and Natural Language Processing. To undergo an assessment for analyzing progress towards acquired AI-Readiness skills To imagine, examine and reflect on the skills required for futuristic job opportunities To understand and reflect on the ethical issues around AI. To gain awareness around AI bias and AI access.	08	01
5	Aug	23	Part – B Unit 2: AI Project Cycle	Identify the AI Project Cycle framework.	08	01

				<p>Learn problem scoping and ways to set goals for an AI project.</p> <p>Identify stakeholders involved in the problem scoped. Brainstorm on the ethical issues involved around the problem selected.</p> <p>Understand the iterative nature of problem scoping for in the AI project cycle. Foresee the kind of data required and the kind of analysis to be done</p>		
6	Sep	25	Part – B Unit 3: Neural Network	<p>Understand and appreciate the concept of Neural Network through gamification.</p> <p>Session: Introduction to neural network • Relation between the neural network and nervous system in human body • Describing the function of neural network</p> <p>Recommended Activity: Creating a Human Neural Network</p> <ul style="list-style-type: none"> <li>• Students split in four teams each representing input layer (X students), hidden layer 1 (Y students), hidden layer 2 (Z students) and output layer (1 student) respectively.</li> <li>• Input layer gets data which is passed on to hidden layers after some processing. The output layer finally gets all information and gives meaningful information as output.</li> </ul>	08	02
7	Oct	15	Part – B Unit 4: Introduction to Python	<p>Learn basic programming skills through gamified platforms.</p> <p>Acquire introductory Python programming skills in a very user-friendly format.</p> <p>Session: • Introduction to Python language • Introducing python programming and its applications</p>	08	03
8	Nov	23		<p>Theory + Practical: Python Basics</p> <ul style="list-style-type: none"> <li>• Students go through lessons on Python Basics (Variables, Arithmetic Operators, Expressions, Data Types - integer, float, strings, using print() and input() functions)</li> <li>• Students will try some simple problem-solving exercises on Python Compiler.</li> </ul>	08	02

<b>9</b>	<b>Dec</b>	<b>25</b>	<b>Part – A ICT skills</b>  <b>Part – A Entrepreneurial Skills</b>  <b>Part – A Green skills</b>	<b>Basics of Computer System</b>  <b>Performing Basic Operations</b>  <b>Computer Care and Maintenance</b>  <b>Computer Security and Privacy</b>  <b>Entrepreneurial Skills</b>  <b>Entrepreneurship and Society</b>  <b>Qualities and Functions of an Entrepreneur</b> <b>Myths about Entrepreneurship</b> <b>Entrepreneurship as a Career Option</b>  <b>Green Skills</b>  <b>Sustainable Development Goals</b> <b>Our Role in Sustainable Development</b>	<b>08</b>	-
<b>10</b>	<b>Jan</b>	<b>18</b>	<b>Revision of syllabus for final Exam</b>	-	<b>05</b>	-
<b>11</b>	<b>Feb</b>	<b>23</b>	<b>Revision and Exam</b>	-	<b>08</b>	-
<b>12</b>	<b>Mar</b>	<b>25</b>	<b>PTM</b>	-	-	-