

KIDS WORLD SCHOOL, NAGPUR
SESSION – 2026-27
CLASS - VII
SUBJECT – ARTIFICIAL INTELLIGENCE

UNIT		Topic	Sub-Topic	Month		Suggested Ice-Breaking Activity	Teaching Pedagogy	Curricular Goals	Expected Learning Outcome	Assessment
No.	Name			Starting	Closing					
1.	AI Domains and Applications	Meaning of AI Domains		July (Day 1)	July	Playing pen paper stone gaming. Guessing what will be outcome.	Organise group discussions, design collaborative projects that integrate CT & AI, and offer guidance to students to carry out these projects.	CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such techniques of computational thinking are effective. CG-3: Gain foundational knowledge of AI, its types, and domains. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.	Explain AI domains in simple terms, identify examples of Data, Computer Vision, and NLP, connect AI domains to daily life.	Assessment OF learning
		Predictive techniques in AI	1. Introduction to Classification 2. Introduction to Regression	Day 2		Draw a picture of your favourite pet eating your favourite food.	Organise group discussions, design collaborative projects that integrate CT & AI, and offer guidance to students to carry out these projects.	CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such techniques of computational thinking are effective. CG-3: Gain foundational knowledge of AI, its types, and domains. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.	Explain classification (grouping) and regression (prediction) in simple terms, give real-life examples, relate to AI use.	
			3. Introduction to clustering What is Datasets ?	Day 3		Smile and greet your friend.	Independent activities for students such as data collection, organisation and analysis created using digital tools or manually.	CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction,	Explain clustering as grouping similar items, define datasets in simple terms, give examples, understand importance of data in AI systems.	

								and algorithms to solve problems where such techniques of computational thinking are effective. CG-3: Gain foundational knowledge of AI, its types, and domains. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.		
		1. Data science 2. Computer Vision Natural Language Processing		Day 4		Fast counting game.	Delivering fundamental AI concepts through explanations, demonstrations, and hands-on experience.	CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such techniques of computational thinking are effective. CG-3: Gain foundational knowledge of AI, its types, and domains. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.	Explain clustering as grouping similar items, define dataset in simple terms, give examples, understand importance of data in AI systems.	
		Exercise		Day 5		Do quick yoga pose.	Explanation with the help of textbook.		Student will be able to solve exercise.	
2.	AI in Industries	AI and health care AI in Education		September Day 1	September	Copy the clap pattern.	Independent student activities such as data collection, organisation, analysis, and creation of diagrams/flow charts using digital tools or manually.	CG-3: Gain foundational knowledge of AI, its types, and domains. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.	Explain how AI is used in healthcare and education, give real-life examples, understand importance of AI in these fields.	Assessment OF learning + Assessment FOR learning (Group Activity)
		AI in Transport AI in communication		Day 2		Show number/shape patterns (e.g., 2, 4, 6, _ _). Ask students to guess the next item.	Independent student activities such as data collection, organisation, analysis, and creation of diagrams/flow charts using digital tools or manually.	CG-3: Gain foundational knowledge of AI, its types, and domains. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as	Explain how AI is used in transport (navigation, traffic) and communication (chatbots, voice assistants), give examples.	

								data analysis, preparation of visual representations and communication of ideas.		
		Exercise		Day 3		Do quick yoga pose.	Explanation with the help of textbook.		Student will be able to solve exercise.	
3.	Data Visualisation and Analysis	What is Data?	Structured and Unstructured data	November Day 1	November	Smile and greet your friend.	Discussions, debates and case studies on ethical use of AI.	<p>CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such techniques of computational thinking are effective.</p> <p>CG-3: Gain foundational knowledge of AI, its types, and domains.</p> <p>CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	Explain what data is, identify structured and unstructured data, give examples, understand importance of data in AI.	Assessment OF learning
		Simple methods of Data collection	Observation Surveys Measurement Digital Collection	Day 2		Ask students: "How do we collect information about favourite games in class?" (raising hands, asking questions)	Organise group discussions, design collaborative projects that integrate CT & AI, and offer guidance to students to carry out these projects.	<p>CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such techniques of computational thinking are effective.</p> <p>CG-3: Gain foundational knowledge of AI, its types, and domains.</p> <p>CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	Explain observation, surveys, measurements, and digital collection, give examples, apply simple data collection methods.	
		Database What is visualisation.		Day 3		Show a marks register (database) and a chart/graph. Ask: "Which is easier to understand?"	Organise group discussions, design collaborative projects that integrate CT & AI, and offer guidance to students to carry out these projects.	<p>CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such</p>	Define database and visualisation, identify examples, understand importance of visual representation of data	

								<p>techniques of computational thinking are effective.</p> <p>CG-2: Develop spatial and visual reasoning.</p> <p>CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>		
		Data Analysis		Day 4		Copy the clap pattern.	Organise group discussions, design collaborative projects that integrate CT & AI, and offer guidance to students to carry out these projects.	<p>CG-1: Develops skills and capacities of computational thinking, namely- decomposition, pattern recognition, data representation, generalisation, abstraction, and algorithms to solve problems where such techniques of computational thinking are effective.</p> <p>CG-2: Develop spatial and visual reasoning.</p> <p>CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	Explain data analysis in simple terms, interpret charts/graphs, identify trends and patterns, make simple decisions based on data.	
		Exercise		Day 5		Do quick yoga pose.	Explanation with the help of textbook.		Student will be able to solve exercise.	
4.	Ethics and AI Bias Awareness	What is Ethics in AI?	Introduction to AI Ethics	January Day 1	January	Smile and great your friend.	Discussions, debates and case studies on ethical use of AI.	<p>CG-3: Gain foundational knowledge of AI, its types, and domains.</p> <p>CG-4: Understand key ethical terms such as bias and fairness in relation to AI.</p> <p>CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	Explain ethics in AI in simple terms, give examples of ethical and unethical AI use, understand importance of fairness.	Assessment OF learning + Assessment AS learning (project)
		Bias in AI	What is Bias? Some common forms of Bias	Day 2		Give a simple situation: "Teacher selects only tall students for a team." Ask: "Is this fair?" Why/why not?	Discussions, debates and case studies on ethical use of AI.	<p>CG-3: Gain foundational knowledge of AI, its types, and domains.</p> <p>CG-4: Understand key ethical terms such as bias and fairness in relation to AI.</p>	Explain bias in simple terms, recognize common forms (selection bias, data bias, gender bias), give examples, understand importance of fairness.	

								CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.		
		Digital Citizenship		Day 3		Copy the clap pattern.	Discussions, debates and case studies on ethical use of AI.	CG-3: Gain foundational knowledge of AI, its types, and domains. CG-4: Understand key ethical terms such as bias and fairness in relation to AI. CG-5: Demonstrates proficiency to use Computer & other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.	Explain digital citizenship in simple terms, identify safe and unsafe online practices, apply responsible and ethical behaviour while using technology.	
		Exercise		Day 4		Do quick yoga pose.	Explanation with the help of textbook.		Student will be able to solve exercise.	