

**KIDS WORLD SCHOOL, NAGPUR**  
**SESSION – 2026-27**  
**CLASS - VIII**  
**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 Project Lifecycle	Introduction to AI	Meaning, Types & Applications of AI	JULY Day 1	JULY	Playing pen paper stone gaming. Guessing what will be outcome.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of AI.	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.	- Students will define AI - Recognize different types of AI (Narrow, General) - Identify AI applications in real life	Assessment OF learning
		AI at work		Day 2		Showing students images of daily life situations (shopping apps, Google Maps, Netflix, voice assistants). Ask them to identify where AI is being used.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of AI.	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.	- Students will recognize that AI is present in daily life - Identify common AI-powered tools and services - Understand how AI helps in decision making	
		What is an AI project		Day 3			<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of AI.	CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective.  CG-3: Gain foundational knowledge of AI, its types, and domains.	- Students will be able to define an AI project - Identify basic steps involved in AI project life cycle - Connect AI projects with real-life applications	
		AI project lifecycle : 1. Define the problem		Day 4		Draw a picture of your favourite pet eating your favourite food.	<b>Collaborative Work:</b> Organising group discussions, debates and collaborative projects that integrate CT & AI.	CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective  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.	- Students will be able to understand the importance of problem definition in AI projects - Clearly define a problem statement - Relate problem-solving with AI project lifecycle	

		2. Data collection and preparations		Day 5			<p><b>Collaborative Work:</b> Organising group discussions, debates and collaborative projects that integrate CT &amp; AI.</p>	<p>CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective</p> <p>CG-5: Demonstrates proficiency to use Computer &amp; other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	<p>Students will understand importance of data in AI projects</p> <ul style="list-style-type: none"> <li>- Differentiate between raw and processed data</li> <li>- Perform basic data preparation (cleaning, organizing)</li> </ul>	
		3. Model Development and Training		Day 6			<p><b>Collaborative Work:</b> Organising group discussions, debates and collaborative projects that integrate CT &amp; AI.</p>	<p>CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective</p> <p>CG-5: Demonstrates proficiency to use Computer &amp; other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	<ul style="list-style-type: none"> <li>- Students will understand what a model is in AI</li> <li>- Explain how AI learns from data (training)</li> <li>- Relate model training with real-life examples</li> </ul>	
		4. Model Evaluation and Refinement		Day 7		<p>Alliterative Name Game - Instruct group to gather in a circle and pick a theme. Each student will introduce themselves by stating their name and a word within the theme that starts with the same letter of their name (i.e., “My name is Luke, and I like lemons”).</p>	<p><b>Collaborative Work:</b> Organising group discussions, debates and collaborative projects that integrate CT &amp; AI.</p>	<p>CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective</p> <p>CG-5: Demonstrates proficiency to use Computer &amp; other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	<ul style="list-style-type: none"> <li>- Students will understand how AI models are tested</li> <li>- Identify accuracy and errors in predictions</li> <li>- Explain the need for improving (refining) models</li> </ul>	
		5. Model deployment		Day 8			<p><b>Collaborative Work:</b> Organising group discussions, debates and collaborative projects that integrate CT &amp; AI.</p>	<p>CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective</p> <p>CG-5: Demonstrates proficiency to use Computer &amp; other devices, computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.</p>	<ul style="list-style-type: none"> <li>- Students will understand what model deployment means</li> <li>- Explain how AI models are used by users</li> <li>- Identify examples of deployed AI systems</li> </ul>	

		6. Monitoring and Maintenance		Day 9			<b>Collaborative Work:</b> Organising group discussions, debates and collaborative projects that integrate CT & AI.	CG-1: Develop skills and capacities of computational thinking, namely decomposition, pattern recognition, data representation, generalization reaction and algorithm to solve problems where such techniques of computational thinking are effective  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.	- Students will understand the importance of monitoring AI systems - Explain why maintenance is required after deployment - Identify ways to improve AI systems over time	
		Chapter Exercise		Day 10		Smile and great your friend.	Explanation through Black Board		Student will able to answer question and answers.	
2.	Deeper Drive into AI Applications	AI for Environment Problems & How AI Can Help		September Day 1	September	Make a funny face.	<b>Inquiry-Based:</b> Independent student activities such as data collection, organisation, analysis, and creation of diagrams/flow charts using digital tools or manually.	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.	- Students will understand major environmental issues - Students will explain how AI helps in solving problems like pollution, wildlife conservation, climate prediction - Students will develop awareness of responsible AI use	Assessment Of learning + Assessment For learning (Group Activity)
		Air Quality problem and How AI helps		Day 2		Smile and great your friend.	<b>Inquiry-Based:</b> Independent student activities such as data collection, organisation, analysis, and creation of diagrams/flow charts using digital tools or manually.	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.	- Students will explain causes and effects of air pollution - Students will understand how AI predicts AQI - Students will describe AI tools used in pollution control	
		Waste management challenges and How AI helps		Day 3		Copy the clap pattern.	<b>Inquiry-Based:</b> Independent student activities such as data collection, organisation, analysis, and creation of diagrams/flow charts using digital tools or manually.	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.	- Students will understand waste management issues - Students will explain AI-based solutions like smart bins, waste segregation, route optimization - Students will develop awareness about sustainability	
		Wildlife Loss and How AI helps		Day 4		Do some quick yoga pose.	<b>Inquiry-Based:</b> Independent student activities such as data collection, organisation, analysis, and creation of diagrams/flow charts using digital tools or manually.	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.	- Students will understand reasons for wildlife loss - Students will explain AI tools used for wildlife protection - Students will develop responsibility towards environment	
		Soil Degradation and How AI helps		Day 5			<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of 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.	- Students will understand soil degradation issues - Students will explain AI-based solutions like soil monitoring and prediction - Students will develop awareness about sustainable farming	

		AI Assisted Healthcare And How AI helps		Day 6		Compliment your partner.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of 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.	Students will define AI-assisted healthcare, explain how AI helps in diagnosis & treatment, identify advantages and limitations.	
		AI and Intelligent Automation Smart Transportation		Day 7			<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of 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.	Students will explain smart transportation, identify AI uses (traffic control, navigation), understand benefits like reduced traffic and safety.	
		AI in the Modern Education System		Day 8		Fast counting game.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of 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.	- Students will understand how AI is used in education - Students will identify tools like smart learning apps, chatbots, recommendation systems - Students will develop awareness about responsible use of AI in studies.	
		Exercise		Day 9		Asking questions if answer is yes student will sit and answer is no student will remain stand.			Student will able to answer question and answers.	
3.	Data and Fairness	Introduction and Role of Data		November Day 1	November	Do quick yoga pose.	<b>Activity-Based:</b> Use of complex puzzles, riddles, and games to build on previous CT abilities	CG-4: Understand key ethical terms such as bias and fairness in relation to AI.	Explain role of data in AI, recognize bias, understand fairness, give real-life examples, use simple data representation	Assessment Of learning
		Importance of Data		Day 2		Fast counting game.	<b>Activity-Based:</b> Use of complex puzzles, riddles, and games to build on previous CT abilities	CG-4: Understand key ethical terms such as bias and fairness in relation to AI.	Explain importance of data, give real-life examples, understand role of data in decision-making, recognize use of data in AI.	
		Understanding Bias	Bias in dataset Ensuring Fairness	Day 3		Do some yoga pose.	<b>Activity-Based:</b> Use of complex puzzles, riddles, and games to build on previous CT abilities	CG-4: Understand key ethical terms such as bias and fairness in relation to AI.	Explain bias in dataset, understand importance of fairness, identify biased situations, give real-life examples of fair AI use	
		Exercise		Day 4		Smile and great your friend.	Explanation with the help of textbook.			
4.	Ethics and Responsible AI	What is AI Ethics		January Day 1	January	Fast counting game.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of AI.	CG-4: Understand key ethical terms such as bias and fairness in relation to AI	Explain AI ethics in simple terms, give examples of ethical and unethical AI use, understand importance of responsible AI, apply ethical thinking.	Assessment Of learning + Assessment As learning (project)
		Bias and fairness in AI		Day 2		Present two situations—one fair (equal chance for all) and one unfair (favouring a group). Ask students to identify which is fair and why.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of AI.	CG-4: Understand key ethical terms such as bias and fairness in relation to AI	Explain bias in AI, understand importance of fairness, recognize biased situations, give real-life examples of fair AI use	
		AI systems are used in many important fields.		Day 3		Ask students: “Where have you seen smart technology (like Google Maps, YouTube suggestions)?” List answers on board.	<b>Ethical Reflection:</b> Case studies and debates on the social impact and ethical use of AI.	CG-4: Understand key ethical terms such as bias and fairness in relation to AI CG-5: Demonstrates proficiency to use Computer & other devices,	Explain use of AI in different fields, give real-life examples, understand importance of AI in daily life	

								computer applications for learning and practical purposes such as data analysis, preparation of visual representations and communication of ideas.		
		Exercise		Day 4		Compliment your partner.	Explanation with the help of Textbook.		Student will able to answer question and answers.	