

CHOITHRAM SCHOOL, MANIK BAGH, INDORE
ANNUAL CURRICULUM PLAN SESSION 2020 – 2021

CLASS: VIII
SUBJECT: Artificial Intelligence

Month & Working Days	Theme/ Sub-theme	Learning Objectives		Activities & Resources	Expected Learning Outcomes	Assessment
		Subject Specific (Content Based)	Behavioural (Application based)			
June-17	<ul style="list-style-type: none"> • Introduction to A.I • Goal of A.I • Programming with and without AI 	<ul style="list-style-type: none"> • Students able to understand about Artificial Intelligence • Various application of AI • How AI can helps you to go about your daily life 	Student will <ul style="list-style-type: none"> • Understand the problems and try to solve with AI • Learn how human depend on machine. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> • Power point presentation on Introduction to AI. <p><u>Activity (to support learning):</u> Video will be shown to make students understands how AI can helps them to go about their daily life.</p> <p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> • Students to design a rough layout of floor plan of their dream smart school.(Ice Breaker Activity) 	<p><u>Students will:</u></p> <ul style="list-style-type: none"> • Able to understand about Artificial Intelligence. • Various application of AI. • How AI can helps you to go about your daily life. <p><u>Students will able to:</u></p> <ul style="list-style-type: none"> • Understand the problem and its solution in better way. • Learn how human depend on machine. 	<p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> • Students to design a rough layout of floor plan of their dream smart school.(Ice Breaker Activity) <p><u>Parameters:</u></p> <ul style="list-style-type: none"> • Creativity • Is innovative in ideas • Originality • Content Knowledge and Topic Relevance

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July -26	<ul style="list-style-type: none"> • What is Human Intelligence? • Real life application of AI in different fields • Limitation of AI 	<ul style="list-style-type: none"> • What is human Intelligence • Difference between Human and Artificial Intelligence. • Limitation of AI 	<ul style="list-style-type: none"> • Understand the problems and try to solve with AI • Learn how human Dependon machine. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> • Power point presentation on difference between Human and Artificial Intelligence. <p><u>Activity (to support learning):</u></p> <p>Video will be shown to make students understands how AI can helps them to go about their daily life.</p> <p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> • Using floor plan of school as a base for your story, use the story speaker extension in Google docs and write a story. 	<p><u>Students will:</u></p> <ul style="list-style-type: none"> • What is human Intelligence • Difference between Human and Artificial Intelligence. • Limitation of AI <p><u>Students will able to:</u></p> <ul style="list-style-type: none"> • Understand the problems and try to solve with AI • Learn how human Dependon machine. 	<p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> • Using floor plan of school as a base for your story, use the story speaker extension in Google docs and write a story.

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August-20	<ul style="list-style-type: none"> Domains of AI 1. Data 	<ul style="list-style-type: none"> Students able to understand domain of AI. To make students understands how data systems works and processes, in which the system collects numerous data, maintains data sets and derives meaning/sense out of them. Student understands how information can be extracted from data that is used to make a decision. 	<ul style="list-style-type: none"> Understands how machine can manipulate information and convert it into data. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> Power point presentation on Domains of AI. Videos <p><u>Activity (to support learning):</u></p> <p>Students will go through AI games in the form of a challenge.</p> <ul style="list-style-type: none"> Tic TacToe(Data): Game based on Data for AI where the machine tries to predict the next move of the participant. <p><u>Activity / Assignment (to assess learning):</u></p> <p>To ask students to play Kahoot quiz based on Domain of AI</p>	<p>Student will</p> <ul style="list-style-type: none"> Students will understand domain of AI. Students will understands how data systems works and processes, in which the system collects numerous data, maintains data sets and derives meaning/sense out of them. Students will understands how information can be extracted from data that is used to make a decision. <p>Student will be able to learn:</p> <ul style="list-style-type: none"> Understands how machine manipulate visual information and convert it into data 	<p><u>Activity / Assignment (to assess learning):</u></p> <p>To ask students to play Kahoot quiz based on Domain of AI</p>

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September-24	Domains of AI <ul style="list-style-type: none"> Natural Language processing 	<p>The students will be able</p> <ul style="list-style-type: none"> Students will understand how artificial intelligence deals with the interaction between computers and humans using the natural language. 	<ul style="list-style-type: none"> Understands how machine understands language. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> Power point presentation on Domains of AI. Videos Ppt on NLP <p><u>Activity (to support learning):</u></p> <ul style="list-style-type: none"> Giorgio cam(Based on computer vision):It uses image recognition to label what it sees, then it turns those labels into lyrics of a song <p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Letter to elder brother/sister to reflect how A.I skill helps in day to day life. 	<p><u>Student will learn</u></p> <ul style="list-style-type: none"> Students will understand how artificial intelligence deals with the interaction between computers and humans using the natural language. <p><u>Student will be able to learn:</u></p> <ul style="list-style-type: none"> Understands how machine understands language. 	<p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Letter to elder brother/sister to reflect how A.I skill helps in day to day life. <p><u>Parameters</u></p> <ul style="list-style-type: none"> Understanding Topic Relevance Critical Thinking skills Creativity and Originality

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October-22	Domains of AI <ul style="list-style-type: none"> • Computer Vision Revision	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Understands how machine understands human language. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> • Power point presentation on Domains of AI. • Videos <p><u>Activity (to support learning):</u></p> <ul style="list-style-type: none"> • Teachable Snake (Based on computer vision): The idea is to instead of using physical buttons to control the game, anyone can draw a black arrow on piece of white paper as controller, and move the snake by turning the paper in different directions in front of webcam. 	<p><u>Student will learn</u></p> <ul style="list-style-type: none"> • Students will learn the capability of a machine to get and analyses visual information and afterwards predict some decisions about it. <p><u>Student will be able to learn:</u></p> <ul style="list-style-type: none"> • Understands how machine understands language. 	

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November-20	<ul style="list-style-type: none"> Introduction to Sustainable development goals. 	<ul style="list-style-type: none"> Students understands how AI is related to SDGS goals. Students understands that AI has potential to help in lifting people out of poverty, reduce energy consumption and promoting clean, affordable energy 	<ul style="list-style-type: none"> Students understands how to solve real world problem in our surroundings with AI. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> Take a look at the pictures of SDGS and try the students to give the theme of each picture. <p><u>Activity (to support learning):</u></p> <ul style="list-style-type: none"> Power point presentation on SDGS goal with brief discussion. <p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Quiz through google form 	<p><u>Student will</u></p> <ul style="list-style-type: none"> Students understands how AI is related to SDGS goals. Students understands that AI has potential to help in lifting people out of poverty, reduce energy consumption and promoting clean, affordable energy <p><u>Students will able to</u></p> <ul style="list-style-type: none"> Students understands how to solve real world in our surroundings with AI. 	<p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Quiz through google form

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December-20	<ul style="list-style-type: none"> Introduction to Sustainable development goals. Continue.....	<ul style="list-style-type: none"> Appreciate the complexity of social issues. Be able to determine where AI solutions would be appropriate. 	<ul style="list-style-type: none"> Students understands how to solve real world problem in our surroundings with AI. 	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> Take a look at the pictures of SDGS and try the students to give the theme of each picture. <p><u>Activity (to support learning):</u></p> <ul style="list-style-type: none"> Power point presentation on SDGS goal with brief discussion. <p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Poster Making: Government of India wants various application of A.I in the field of medical. Design the poster that includes the name of technology with specification that helps in medical. 	<p><u>Student will learn</u></p> <ul style="list-style-type: none"> Appreciate the complexity of social issues. Be able to determine where AI solutions would be appropriate <p><u>Student will</u></p> <ul style="list-style-type: none"> Students understands how to solve real world problem in our surroundings with AI. 	<p><u>Activity / Assignment (to assess learning):</u></p> <p>Poster Making: Government of India wants various application of A.I in the field of medical. Design the poster that includes the name of technology with specification that helps in medical.</p> <p>Parameters:</p> <ul style="list-style-type: none"> Creativity Is innovative in ideas Originality Content Knowledge and Topic Relevance

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January-23	AI ethics	<ul style="list-style-type: none"> Students understands advantages and disadvantages of AI in different field. 	Students learn how AI can affect our life.	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> Video to introduce the AI Ethics” <p><u>Activity (to support learning):</u></p> <ul style="list-style-type: none"> Students divide in teams, one team goes in affirmation to AI for their session while the other goes against it. <p><u>Activity / Assignment (to assess learning):</u></p> <p>To ask students to make a ppt on advantages and disadvantages of AI.</p>	<p><u>Student will learn :</u></p> <ul style="list-style-type: none"> Students understands advantages and disadvantages of AI in different field. <p><u>Student will:</u></p> <p>Students learn how AI can affect our life.</p>	<p><u>Activity/Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> To ask students to make a ppt on advantages and disadvantages of AI.

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February-23	AI ethics	<ul style="list-style-type: none"> Gain awareness of ethical concerns about AI. Critically think about the cost and benefits of AI technology. 	Students learn how AI can our life.	<p><u>Activity (to introduce the lesson):</u></p> <ul style="list-style-type: none"> Video to introduce the AI Ethics” <p><u>Activity (to support learning):</u></p> <p><u>Activity / Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Create a web page on the topic Tourist places in India. Set a suitable background colour, image, font and font colour for the web page. Also set the top and bottom margin. Create a web page as “Clean India Mission”. 	<p>Student will learn:</p> <ul style="list-style-type: none"> Learn Benefits of CSS in Web Development. Learn customization through CSS is much easier than plain HTML Learn how CSS rules are simultaneously applied to multiple elements within the HTML documents. CSS helps in making websites work smoothly at lower internet speeds It also ensures that your web pages have consistent styling throughout your site. How to apply INLINE Style in CSS Learn various TEXT properties,Fontproperties,Border properties and margin properties <p>Student will learn:</p> <ul style="list-style-type: none"> To reduce your efforts so that you can complete the activity in lesser amount of time. To ensure consistency styling 	<p><u>Activity/ Assignment (to assess learning):</u></p> <ul style="list-style-type: none"> Create a web page on the topic Tourist places in India. Set a suitable background colour, image, font and font colour for the web page. Also set the top and bottom margin. Create a web page as “Clean India Mission”. <p><u>Parameters:</u></p> <ul style="list-style-type: none"> Creativity and originality Logical approach Understanding Is able to apply theoretical knowledge into practical usage

throughout your work
 • To develop among students systematic and step-by-step approach.

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March- 24	Revision.....					