MONTH	CHAPTER	SUB TOPICS	INNOVATIVE PEDAGOGIES	LEARNING OUTCOMES	AI LAB ACTIVITY
March/ April	Introduction to AI	1.1 Excite Introduction to AI Three Domains of AI	Worksheet 1- Identify domains of Artificial Intelligence based on (Computer Vision) images of some experiments/Apps/Games	After completion of the unit, learners will be able to describe: The relation and application of AI in their daily life	Teachable Machine
May	Introduction to AI	Domains of AI- Computer Vision, Natural Language Processing Types of AI Artificial Narrow Intelligence Artificial General Intelligence	Worksheet 2- Identify domains of Artificial Intelligence based on (data) images of some experiments/Apps/Games		Rock, Paper & Scissor

July	Introduction to AI	1.2 Relate Data Science Datasets	Worksheet 3- Identify domains of Artificial Intelligence based on (Natural Language Processing) images of some experiments/Apps/Games	Identify the 3 domains of AI	Google Assistant Activity- Based on Data - Semantris
August	Introduction to AI	1.3Purpose Sustainable Development Goals Social Issues may be Interlinked and Integrated across SDGs Using AI to help Achieve SDGs	Go Goals Activity Art Integrated Activity- Data Visualization	Learners will be able to identify and develop awareness for SDGs using AI solutions	AI Project Cycle- Data Visualization

September	Introduction to AI	**1**.4: Possibilities AI in daily life Uses of AI in our daily life	Quiz	Learners will be able to describe and explore the application of AI in different fields and various industries	Activity-LUIS
October		**1.5: Ethics**	Group Discussion on AI Ethics	Learners will be able to describe some	

			ethical concerns of AI with respect to inclusion, bias, and privacy	
November	AI Project Cycle	Steps of AI Project Cycle Problem Scoping Data Acquisition Data Exploration Modelling Evaluation	Group Discussion on Kimchi – Rising Prices	After completion of the AI project cycle learners will be able to: Describe, explain and apply the different stages in project cycle Enquire about and state the problem for the project cycle and create a system map	Loopy
December	Neural Network	Artificial Neural Network- Deep Learning	Case Study- Sports Integrated Activity	Learners will be able to develop an understanding of Neural Networks	

January	Introduction to Python Programming	Python Basics	Programming through Colabs	Learners will able to write programs in Python	
February	Revision				

SYLLABUS PLAN FOR THE SESSION 2020-2021
SUBJECT – Artificial Intelligence
CLASS- 8

<mark>1.Topic:</mark> AI Project Cycle- SDGs

Chapter Topic	AI Project Cycle
Subject integrated	Maths and Visual art.
Art form integrated	Sketching on graphs
Learning objectives	➤ Analyzing the data ➤ Understanding of dataset ➤ Visualization of Data
Procedure	1. Selecting the SDG topic 2. Applying AI Project Cycle 3. Downloading the dataset 4. Analyzing the dataset 5. Data Visualization of SDG problem stated

2. AI Project Cycle

Topic	Kimchi- Rising Prices
Subjects integrated. Art form integrated	Maths, Science and Visual art.
Learning objectives	➢ Predicting the prices ➢ Analyzing the data ➢ Understanding of dataset Visualization of Data

Procedure	1. AI Project Cycle to Kimchi – Rising Prices
	   Applying AI Project Cycle
	   Downloading the dataset
	   Analyzing the dataset
	    Data Visualization

3. <mark>Sports Integrated activity</mark>

Chapter	Neural Network
Subject integrated	Maths, Sports and Visual art.
Learning Objectives	How to select student for sports team
Procedure	Applying Neural Network

Topic of the project	AI Project Cycle on SDG
Subjects integrated	Maths, Art and Social Studies
Time duration	August

Learning Objectives	➤ Analyzing the data ➤ Understanding of dataset Visualization of Data
Basic Knowledge of the project:	1. Selecting the SDG topic 2. Applying AI Project Cycle 3. Downloading the dataset 4. Analyzing the dataset Data Visualization of SDG problem stated
Knowledge of the terms:	➤ Data Visualization
About the activity	Sustainable Development Goals
Project Presentation	Presentation of the data collected could be through PPT or by video.