



# COURSE OUTLINE

## ARTIFICIAL INTELLIGENCE

Age : 6-9, 10-14 years old

### Introduction

In this course you will learn what Artificial Intelligence (AI) is, explore use cases and applications of AI, understand AI concepts and terms like machine learning, deep learning and neural networks. You will be exposed to various issues and concerns surrounding AI such as ethics and bias, & jobs, and get advice from experts about learning and starting a career in AI. You will also demonstrate AI in action with a mini project.

Seq	Lesson	Objective
1	Introduction to A.I.	<ul style="list-style-type: none"><li>- Understand what is A.I.</li><li>- Application and transforming human lives into technology era.</li><li>- Describe several issues and ethical concerns surrounding of A.I.</li></ul>
2	Introduction of A.I. Programming	<ul style="list-style-type: none"><li>- Program a basic A.I. codes using application / software.</li><li>- Understand the important of the sequence of coding.</li><li>- Understand the different functions of codes.</li></ul>
3	AI Programming using IDE	<ul style="list-style-type: none"><li>- Program a basic IDE pattern codes using application / software</li><li>- Understand the IDE sequence of coding.</li><li>- Understand the connection of A.I. to the real world.</li></ul>
4	AI IDE Programming I	<ul style="list-style-type: none"><li>- Understand how to solve the following problem through codes.</li><li>- Understand the connection of AI IDE to the real world.</li></ul>
5	AI IDE Programming II	<ul style="list-style-type: none"><li>- Understand how to solve the following problem through codes.</li><li>- Understand the connection of AI IDE to the real world.</li></ul>

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6	Role of AI in robots	<ul style="list-style-type: none"><li>- Understand the connection of robot and AI.</li><li>- Understand the advantage and disadvantage.</li></ul>
7	Robotics and AI Controls	<ul style="list-style-type: none"><li>- Understand the connection of robot and AI using controller.</li><li>- Understand the idea to manipulate the robot using software / application.</li></ul>
8	Robotics and AI Codes I	<ul style="list-style-type: none"><li>- Understand the connection of robot and AI using codes sequencing.</li><li>- Use basic sensor to adapt and apply to the given task.</li></ul>
9	Robotics and AI Codes II	<ul style="list-style-type: none"><li>- Understand the connection of robot and AI using code blocks.</li><li>- Use basic sensor to adapt and apply to the given task.</li></ul>
10	Robotics and AI Codes III	<ul style="list-style-type: none"><li>- Understand the connection of robot and AI using code blocks.</li><li>- Use basic sensor to adapt and apply to the given task.</li></ul>