

//WEEK_01 //INTRODUCTION

//Tutorial by Amirruddin Shah
//Duration : 3 Hour

//Topic |
Basic to Code
Coding Application in Industries
Programming Foundations : Fundamentals
Learning to Code using JAVA
Processing : Interactive Data Visualization

//Reference |
Learning Processing: A Beginner's Guide to Programming Images, Animation, and Interaction

//Exercise |
5 sets of Exercises
i) Reference of Industry implication
ii) 2D Coding visualization
iii) Variation in Codes
iv) Colour Experimentation
v) Solving Skills

//WEEK_05 //INTRODUCTION

//Tutorial by Amirruddin Shah
//Duration : 3 Hour

//Topic |
Vector 3D environment
Importing Data
Recursion and Fractal
Spring 1D and Spring 2D
3D exporting

//Reference |
The Nature of Code by Daniel Shiffman
Generative Gestaltung
GitHub : Open Source

Exercise |
2 sets of Exercises
i) Experimentation and 3D Design
ii) Arduino JAVA Exploration
(pair : 2 each)

//WEEK_02 //INTRODUCTION

//Tutorial by Amirruddin Shah
//Duration : 3 Hour

//Topic |
Global Variable
Function and Integer
Reference in Processing
Loops of if and else
Conditional

//Reference |
Learning Processing: A Beginner's Guide to Programming Images, Animation, and Interaction

//Exercise |
4 sets of Exercises
i) Exploration in Visualization
ii) Developing 3 sets of Code
iii) Looping Processing
v) Solving Excercise

//WEEK_06 //INTRODUCTION

**Tutorial by Amirruddin Shah
Critique Session with Guest
Duration : 3 Hour**

Topic |
Exploration in Hardware and Software
Arduino JAVA language
Hardware Assitance

Reference |
The Nature of Code by Daniel Shiffman
GitHub : Open Source

Exercise |
2 sets of Exercises
i) Application of Hardware and Software
ii) Coding Exploration

//WEEK_3 //INTRODUCTION

//Tutorial by Amirruddin Shah
//Duration : 3 Hour

//Topic |
Classes in Coding
Arrays and Array List
Libraries
PImages and customization

//Reference |
The Nature of Code by Daniel Shiffman

//Exercise |
2 sets of Exercises
i) Developing Classes and Exploration
(pair : 2 each)

//WEEK_07 //INTRODUCTION

**Tutorial by Amirruddin Shah
Critique Session with Guest
Duration : 3 Hour**

Topic |
Website exploration and visualisation
Coding in expression and implementation
Collaboration with different discipline

Reference |
The Nature of Code by Daniel Shiffman

Exercise |
Exploration in Coding
(pair : 2 each)

//WEEK_04 //INTRODUCTION

//Tutorial by Amirruddin Shah
//Duration : 3 Hour

//Topic |
Vector
Classes in Multiple Tabs
Agents
2D interactive interface
Combination and Application in Android

//Reference |
The Nature of Code by Daniel Shiffman
Generative Gestaltung
GitHub : Open Source

//Exercise |
3 sets of Exercises
i) Swarm Behaviour 2D
ii) Tracing Excercise
ii) Application of Code in Android
(pair : 2 each)

//WEEK_08 //INTRODUCTION

**Tutorial by Amirruddin Shah
Critique Session with Guest
Duration : 3 Hour**

Topic |
Exhibition and Showcase

Guest |
Robotic Personel
Coding Personel
Architecture Personel
Product Personel

Exercise |
Portfolio