

INTERMEDIATE CURRICULUM

Module 1

1

Game Design and Basic App Development

Single Player Game

Students will be introduced to basic programming constructs to design story boards and puzzle games

- Block Based Command
- Time Based Programming
- Events
- Customization

Basket Ball Game

Star War Game Create your own story and animation.

Module 2

2

Advanced Coding and UI/UX design

Spatial Reasoning

Students will learn to creatively visualize and manipulate relationships between objects and space

- For Loops
- Play Lab Functions
- Functions with Parameters
- Complex Pattern Building

Madame Unicorn

Create an interactive game based on keypress events.

Logic Building

Students will be taught to develop their logical thinking skill essential for app designing

- If/ Else
- Repeat Until
- While Loops
- Goal Directed Actions

Harvester App Collector Bee App

Create simple decision making app

Dynamic Difficulty Building

Students will learn to add levels of difficulty to their apps and also test their skills acquired so far

- Variables
- Maths
- Loops
- Logic

Test Your Skills

Create app to test the skills acquired so far wrt programming constructs.

Binary Art

Students will be introduced to concept of data types, pixels and image resolution

- Binary Bracelets
- ButtTrouble Shootings
- Binary Images
- User Interaction

2DArtist App

Create an app to generate boolean images

Deep Learning

Students will explore advanced game/app designing in detail

- Events and Actions
- Game Design Concepts
- Story Board
- Plotting Shapes

Chase Game

Create your own story and animation.

Utility App: PlayLab

Students will learn to build multiple entertainment & utility apps

- PlayLab Variables
- Machine Learning
- Score Keeping
- Wireframe Construction

Trash Sorter App

Create interactive app to sort through different objects

Intermediate Evaluation Program

Students will be assigned projects at the end of the course as a part of their evaluation.

- GumBall and IceAge
- Hungry Squirrel
- Disney Infinity
- Alien Story

Alien Story

Create your own story and animation.