

Course Curriculum (2023-24)

Grade: HKG

Basic Programming (Block Based Coding)

Level
1

Course Includes

- Intro to Coding
- Drag & Drop
- Sprites & Characters
- Motion
- Sequencing

Learning Outcomes

8
Sessions



Basics of
Mobile Tablet &
Computers



Basics of
Animation

Course Curriculum (2023-24)

Grade: 1 & 2

Basic Programming (Block Based Coding)

Level
1

Course Includes

- Intro to Coding
- Drag & Drop
- Sprites & Characters
- Motion & Sound
- Sequencing
- Infinite Loops

Learning Outcomes

8
Sessions



Basics of
Mobile Tablet &
Computers



Basics of
Animation

Level
2

Course Includes

- Safe Internet
- Browsing
- Event Handling
- Coordinate Plane
- Variables
- Conditional Statements
- Math Operators

Learning Outcomes

12
Sessions



Internet
Safety



Advanced
Animation



Basic Game
Development

Web App and Game Development (Block Based Coding)

Level
1

Course Includes

- Keyboard Controls
- Scratch Extensions
- Functions
- Video Sensing
- Text to Speech
- Translator

Learning Outcomes

20
Sessions



Basics App
Development



Advanced Game
Development

- **Medium of Instructions:** Bilingual (English-Hindi)/English
- **Medium of Study Material:** English
- **Mode:** Live Online
- **Mentorship:** One-On-One
- **Visit Combos** for Fee Benefits

Basic Programming (Block Based Coding)

Level
1

Course Includes

- Intro & Basics of Coding
- Coordinate Plane
- Variables
- Conditional Statements

Learning Outcomes

8
Sessions



Basics
Computer



Basics of
Animation



Basics Game
Development

Level
2

Course Includes

- Safe Internet Browsing
- Event Handling
- Math Operators
- Keyboard Controls
- Scratch Extensions:
Pen Function
- Video Sensing

Learning Outcomes

12
Sessions



Internet
Safety



Advanced
Animation



Advanced Game
Development

Web App and Game Development (Block Based and Text Based Coding)

Level
1

Course Includes

- Actions of Sprites
- Behavior of Sprites
- Logic & Math Operators
- Functions & Properties

Learning Outcomes

20
Sessions



Basic App
Development



Advanced Game
Development

Level
2

Course Includes

- UI Controls
- Canvas
- Drawing
- Groups

Learning Outcomes

32
Sessions



Advanced App
Development



Advanced Game
Development

Mobile App Development (Block Based Coding)

Level
1

Course Includes

- Basic UI/UX Designing
- Multi-Page Apps
- Working with Camera
& Images
- Integration of Sounds
Algebraic Solver,
- Working with
Accelerometer sensors

Learning Outcomes

12
Sessions



Camera
Hardware



Working with
Images



Mathematical
Logics



Knowledge of
Sensors

Level
2

Course Includes

- Mobile app GUI Designing
- Navigators
- Google Maps Integration
- Sensor Gaming and
Cloud Variable
- Firebase Integration
and APK Creation of Apps

Learning Outcomes

20
Sessions



Basics of UI/UX
Design



Basic Knowledge
of sensors



Basic Knowledge
of sensors



Basics of Cloud
Computing

Level
3

Course Includes

- Dynamic UI Designing
in MIT APP
- Using Extensions
- Understanding Sensors
- Accelerometer,
proximity Sensor
- Using Database
- Tiny DB

Learning Outcomes

32
Sessions



Interactive UI
Designing



Light & gravity
based project



Storing Data
for long Time

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Basic Programming (Block Based Coding)




Mobile App Development (Block Based Coding)

Level
1

Course Includes

- Intro & Basics of Coding
- Coordinate Plane
- Variables
- Conditional Statements
- Keyboard Controls
- Scratch Extensions: Pen Functions
- Video Sensing

Learning Outcomes **8 Sessions**

-  Basics Computer
-  Basics of Animation
-  Basics Game Development

Level
2

Course Includes

- Safe Internet Browsing
- Event Handling
- Action of Sprites
- Behaviour of Sprites
- Logic & Math Operators
- Functions & Properties

Learning Outcomes **12 Sessions**




-  Internet Safety
-  Advanced Animation
-  Advanced Game Development

Level
1

Course Includes

- UI/UX Designing
- App Securities
- Virtual Musical Instruments
- Universal Language Detector
- URL Identifier.

Learning Outcomes **12 Sessions**

-  Working with Music
-  Passcodes Apps
-  Integration of Multiple Sensors

Level
2

Course Includes

- UI/UX Designing
- App Securities
- Virtual Musical Instruments
- Universal Language Detector
- URL Identifier
- Advanced GUI designing Navigators
- Google maps integration
- Sensor gaming and API Integration
- Airtable integration Publishing and installation of apps

Learning Outcomes **20 Sessions**



-  Advanced UI/UX Design
-  Third Party app integration
-  Extensive Knowledge of Databases
-  Integration of API

Level
3

Course Includes

- Dynamic UI Designing in MIT APP
- Using Extensions
- Understanding Sensors
- Accelerometer, proximity Sensor
- Using Database
- Tiny DB

Learning Outcomes **32 Sessions**

-  Interactive UI Designing
-  Light & gravity based project
-  Storing Data for long Time

Web App and Game Development (Block Based and Text Based Coding)



Data Science and AI (Text Based Coding)

Level
1

Course Includes

- Basics of Game Development
- Frames
- Velocity and speed
- Turtle programming
- Screen switching

Learning Outcomes **20 Sessions**




-  Understanding relative motion on characters
-  Multiple Screen based Games

Level
2

Course Includes

- Database Operations
- HTML & CSS
- Strings
- Lists & Arrays Frames
- Dynamic UI Components

Learning Outcomes **32 Sessions**

-  Permanent storing the Information
-  Designing the Web Pages
-  Advanced data types

Level
3

Course Includes

- Basics of P5 platform
- Push and Pop method
- Playing with Canvas
- Understanding Geometrical Shapes
- DOM elements
- Working with video files
- Nesting function
- Classes and Objects
- Game Creation

Learning Outcomes **32 Sessions**




-  Basics of Object Oriented Programming
-  Using Media files in P5.js
-  Visualization of Objects in 2D Space

Level
1

Course Includes

- Basics of python
- Variables and their types
- Branching and conditional statements
- Looping
- Turtle programming

Learning Outcomes **12 Sessions**





-  Understanding Basic Concept of Python
-  Shape generation using turtle
-  Solving problems using python concept

Level
2

Course Includes

- Lists in python
- Tuples
- Dictionaries
- Sets
- Functions in python
- external libraries
- Sounds in python

Learning Outcomes **20 Sessions**





-  Understanding advance concept of python
-  GUI based projects
-  Using Sound
-  Storing Data for Long time

Level
3

Course Includes

- Databases in python
- Basics of AI and ML
- Numpy
- Pandas
- Matplotlib
- Open Cv2

Learning Outcomes **32 Sessions**

-  Understanding Data science and AI
-  Solving complex calculations
-  Real time Projects
-  Data visualizations
-  Understanding Camera vision using Python

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Basic Programming (Block Based Coding)

Mobile App Development (Block Based Coding)

Level
1

Course Includes

- Intro & Basics of Coding
- Coordinate Plane
- Variables
- Conditional Statements
- Keyboard Controls
- Scratch Extensions: Pen Functions
- Video Sensing

Learning Outcomes

8 Sessions



Basics Computer



Basics of Animation



Basics Game Development

Level
2

Course Includes

- Safe Internet Browsing
- Event Handling
- Action of Sprites
- Behaviour of Sprites
- Logic & Math Operators
- Functions & Properties

Learning Outcomes

12 Sessions



Internet Safety



Advanced Animation



Advanced Game Development

Level
1

Course Includes

- UI/UX Designing
- Search Engine and Bookmarks
- Maps and Location
- Sensor integration
- Detection of objects
- Voice Recognition

Learning Outcomes

12 Sessions



Detection of Objects & Voice



Location & Maps



Search Engines



Integration of Hardware

Level
2

Course Includes

- Mobile app UI/UX
- Integration of JSON and third party API
- Multiple database integration
- Publishing & Installation of Mobile Apps

Learning Outcomes

20 Sessions



Interactive UI/UX design



Working with Sensors



Advanced Cloud Computing

Level
3

Course Includes

- Dynamic UI Designing in MIT APP
- Using Extensions
- Understanding Sensors
- Accellerometer, proximity Sensor
- Using Database
- Tiny DB

Learning Outcomes

32 Sessions



Advanced UI/UX design



Third Party app integration



Extensive Knowledge of databases



Integration of API

Web App and Game Development (Block Based and Text Based Coding)

Data Science and AI (Text Based Coding)

Level
1

Course Includes

- Sprites and collisions
- Frame Count and Frame Rate
- X and Y Velocity
- Sprite Groups

Learning Outcomes

20 Sessions



Basic App Development



Motion and collisions



Advanced Game Development

Level
2

Course Includes

- Database
- Data Definition Language
- Data Manipulation Language
- HTML & CSS
- Timed Looping
- Dynamic GUI
- Array

Learning Outcomes

32 Sessions



Advanced App Development



Databases



Dynamic programming

Level
3

Course Includes

- Nested Loop
- Shape Generation Function
- Capture and save images from Webcam
- URL and JSON
- Sine Wave Formation,
- 3D Orientation
- Functions of Matter.js,
- Physics Engine
- Rendering

Learning Outcomes

32 Sessions



3D Shape Creation



Physics Engine based Games



Complex Graphics Animation

Level
1

Course Includes

- Basics of python
- Variables & their types
- Branching & conditional statements
- Looping
- Turtle programming

Learning Outcomes

12 Sessions



Understanding Basic Concept of Python



Shape generation using turtle



Solving problem using python concept

Level
2

Course Includes

- Lists in python
- Tuples
- Dictionaries
- Sets
- Functions in python
- external libraries
- Sounds in python

Learning Outcomes

20 Sessions



Understanding Basic Concept of Python



GUI based projects



Using Sound



Storing Data for Long time

Level
3

Course Includes

- Databases in python
- Basics of AI and ML
- Numpy
- Pandas
- Matplotlib
- Open Cv2

Learning Outcomes

32 Sessions



Understanding Data science and AI



Solving complex calculations



Real time Projects



Data visualizations



Understanding Camera vision using Python

- **Medium of Instructions:** Bilingual (English-Hindi)/English
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Fee structure for session 2023-24

BASIC PROGRAMMING (Block Based Coding)

Levels	Grades	No. of Session	Fee (Inc. of GST)
Level-1	HKG to 8 (& above)	8	₹ 4,500
Level-2	1 to 8 (& above)	12	₹ 6,500
Combo	1 to 8 (& above)	8 + 12 = 20	₹ 10,000

MOBILE APP DEVELOPMENT (Block Based Coding)

Levels	Grades	No. of Session	Fee (Inc. of GST)
Level-1	1 to 8 (& above)	12	₹ 6,500
Level-2	1 to 8 (& above)	20	₹ 10,500
Level-3	1 to 8 (& above)	32	₹ 16,000
Combo	1 to 8 (& above)	12+20+32 = 64	₹ 29,500

WEB APP & GAME DEVELOPMENT (Block Based and Text Based Coding)

Levels	Grades	No. of Session	Fee (Inc. of GST)
Level-1	1 to 8 (& above)	20	₹ 10,500
Level-2	3 to 8 (& above)	32	₹ 16,500
Level-3	5 to 8 (& above)	32	₹ 17,000
Combo	5 to 8 (& above)	20+32+32=84	₹ 38,500

DATA SCIENCE & ARTIFICIAL INTELLIGENCE (Text Based Coding)

Level	Grades	No. of Session	Fee (Inc. of GST)
Level-1	5 to 8 (& above)	12	₹ 6,500
Level-2	5 to 8 (& above)	20	₹ 10,500
Level-3	5 to 8 (& above)	32	₹ 17,500
Combo	5 to 8 (& above)	12+20+32=64	₹ 30,500

Avail the COMBO Benefits

Levels	Grades	No. of Session	Fee (Inc. of GST)	Combo Benefit
Basic Programming + Mobile App development	1 to 8 (& above)	84	₹ 38,500	₹ 5,500
Basic Programming + Web App & Game Development	5 to 8 (& above)	104	₹ 47,500	₹ 7,500
Mobile App development + Web App & Game Development	5 to 8 (& above)	148	₹ 65,000	₹ 12,000
Web App and Game Development + Data science & Artificial Intelligence	5 to 8 (& above)	148	₹ 65,500	₹ 13,000
Basic Programming + Mobile App Development + Web App & Game Development	5 to 8 (& above)	168	₹ 72,000	₹ 16,000
Basic Programming + Web App & Game Development + Data science & Artificial Intelligence	5 to 8 (& above)	168	₹ 72,500	₹ 17,000
Mobile App development + Web App & Game Development + Data science & Artificial Intelligence	5 to 8 (& above)	212	₹ 90,000	₹ 21,500
Basic Programming + Mobile App Development + Web Development + Data Science & Artificial Intelligence	5 to 8 (& above)	232	₹ 1,00,000	₹ 22,500

Block Your Seat at: <https://theintellibrain.com/coding-for-kids>



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