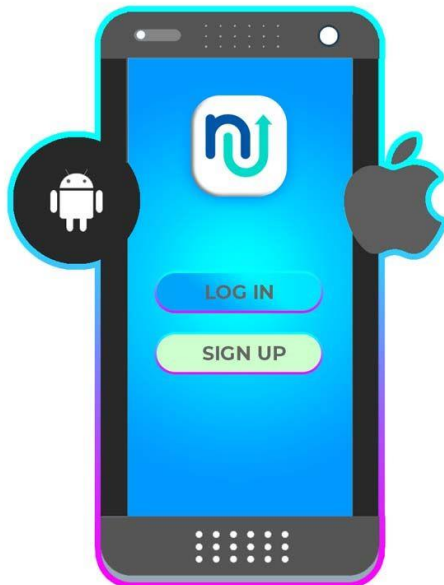




Creative { Coding }

APP DEVELOPMENT

Ages 9-15 yrs



Your learning path with NotchUp

Level 1



**GAME
DEVELOPMENT**

**Ages 8-12
48 CLASSES**



**APP
DEVELOPMENT**

**Ages 9-15
56 CLASSES**

Level 2



**WEB
DEVELOPMENT**

**Ages 10+
48 + 16 CLASSES**



PYTHON

**Ages 12+
48 CLASSES**

Level 3



**ADVANCED PYTHON WITH
ARTIFICIAL INTELLIGENCE**

**Ages 12+
48 CLASSES**

Plan Details

BASIC	PRO	ADVANCED
<div><div>₹ 4,400</div><div>15%Off</div><div>₹ 5,200</div></div> <div>GET VOUCHER WORTH<div>₹ 500</div></div> <div>EFFECTIVE PRICE<div>₹ 488/class</div></div> <div>8 Classes</div> <div><div>✓ 1-on-1 Live Classes</div><div>✓ Covers basics of App Dev (Module 1)</div><div>✓ 1 detailed assessment report</div><div>✓ Additional after class projects</div></div>	<div><div>₹ 29,960</div><div>18%Off</div><div>₹ 36,400</div></div> <div>GET VOUCHER WORTH<div>₹ 7,000</div></div> <div>EFFECTIVE PRICE<div>₹ 410/class</div></div> <div>56 Classes</div> <div><div>✓ 1-on-1 Live Classes</div><div>✓ Complete App Dev (Module 1 to 7)</div><div>✓ 7 detailed assessment report</div><div>✓ Additional after class projects</div><div>✓ 1-year access* to webinars & online forums</div><div>✓ 3 Free Revision Sessions</div><div>✓ Publish App on Play Store</div><div>✓ App Developer Certification</div></div>	<div><div>₹ 46,800</div><div>31%Off</div><div>₹ 67,600</div></div> <div>GET VOUCHER WORTH<div>₹ 14,000</div></div> <div>EFFECTIVE PRICE<div>₹ 315/class</div></div> <div>104 Classes</div> <div><div>✓ 1-on-1 Live Classes</div><div>✓ Complete App & Game Dev (Module 1 to 13)</div><div>✓ 13 assessment reports</div><div>✓ Additional after class projects</div><div>✓ Unlimited access* to webinars & online forums</div><div>✓ 5 Free Revision Sessions</div><div>✓ Publish App on Play Store</div><div>✓ App & Game Developer Certification</div></div>

Cancel Anytime. 100% Refund. No questions asked

* Limited time offer



Course Details



APP DEVELOPMENT

Students understand about user interface design and user experience along block coding concepts to create their own apps hosted on Google Play store.



PLATFORM USED

MIT App Inventor – A block-based programming tool developed to create Android apps

CURRICULUM – 56 sessions



- Application Coding – Method Call & Property
- Application Testing
- Working with Numbers
- Sound & Clock Components
- Web Viewer
- Text & Message Dialog
- Logical & Conditional Operations
- Audio & Video Components
- Location and Google Maps
- Spinner, Slider & Textbox

SKILLS DEVELOPED

- Pattern Recognition
- Visual Storytelling
- Logical Thinking
- Synchronization
- Abstraction
- Algorithm Design
- Decomposition
- Creative Thinking

OUTPUT



- Range Checker
- Maths Buddy Pro
- Grocery App
- Video App
- Photo App
- Spider Man Game
- Fleet Management App
- Quiz Game
- Image Recognizer App
- Buy Sell App
- AI Chat Bot
- Weather App

Course Details



GAME DEVELOPMENT

Students learn the concepts of block coding through creating their own games. These games will be published on the web.



PLATFORM USED

SCRATCH – A visual block-based programming tool developed by MIT, USA.

CURRICULUM – 48 sessions



- Introduction to Coding
- Block Sequencing
- Parallelism
- Layer Sequencing
- Conditionals
- User Interactivity
- Loops and Nested Loops
- Functions
- 2D Coordinates
- Variables
- Complex Motions
- Debugging

SKILLS DEVELOPED



- Pattern Recognition
- Visual Storytelling
- Logical Thinking
- Synchronization
- Abstraction
- Algorithm Design
- Decomposition
- Creative Thinking

OUTPUT



- Music Jam Project
- Jump Game
- Animated Stories
- Platformer Game
- Maze Game
- Quiz Game
- Ping Pong Game
- Voice Controlled Game

Why NotchUp



Adaptive Curriculum

Every child is different, so is their learning path



LIVE Online sessions in your **preferred language**



Flexible & Safe - Choose your preferred day/time, unlimited pauses



Gamified with rewards to keep children excited and engaged



Monthly detailed **progress report** to track your child's performance



Continuous **online support** for doubt resolution



Certification and courses designed by IIT-D, IIM-A alumni



High Customer Satisfaction: 90% parents/ students give us **5 Star Rating**



100% Money-back Guarantee on all online courses

Why Coding is Important

CODING HELPS IN IMPROVING ACADEMIC PERFORMANCE



MATHS SKILLS

Coding helps apply math to the real world, making it more fun and improving math concepts



COMMUNICATION

Coding is like learning a new language, it strengthens both verbal and written skills



CONCENTRATION

Coding requires tracking of multiple things at the same time, automatically improving concentration levels



CREATIVITY

Coding helps to hone creative thinking skills of students as they brainstorm ideas to create meaningful projects

IT'S NEVER TOO EARLY TO START CODING



"We want every child in the world to be excited about the many possibilities coding can unlock for themselves, for their communities and for their societies"



"I taught myself how to program computers when I was a kid, bought my first computer when I was **10**, and sold my first commercial program when I was 12"



Sundar Pichai, CEO of Google and Alphabet



Elon Musk, Founder of Tesla and SpaceX



Class Wise Topics (1/4)

Class #

Topic Covered

Class #

Topic Covered

MODULE 1 - INTRO TO APP DESIGN

TRIAL

Translator App

1

UI Components 1 + Quiz App

2

UI Components 2

3

Math Blocks Part 1

4

Grade App using Control-Logic

5

Attendance Calculator App

6

Loop Blocks + Factorial App

7

Random Guess Game

8

Fleet Management App

MODULE 3 - MEDIA COMPONENTS

17

Revision of Concepts

18

Camera + Video + Recorder

19

Working with sounds

20

Extensions – Zip – Unzip App

21

Image Picker

22

Web Viewer App

23

Publish Your App

24

Guess the Movie Game

MODULE 2 - USING MATHS IN APP

9

Revision of concepts

10

Barcode Scanner + Viewer

11

Working with Lists

12

Procedures and Variables

13

Notifications

14

Social Buttons

15

Pick your fav subject App

16

Maths Buddy Pro

MODULE 4 - TEXT AND SPEECH

25

Revision of Concepts

26

Text Blocks

27

Text to Speech + Translator App

28

Speech Recognizer

29

Date and Time Picker

30

Drawing and Animation

31

Ping Pong Game

32

Make your own emoji

Class Wise Topics (2/4)

Class #

Topic Covered

Class #

Topic Covered

MODULE 5 – USING SENSORS

MODULE 7 - APP ADVANCED CONCEPTS

33 Revision of Concepts

49 Revision

34 Intro to Activity Starter

50 Dictionary Blocks

35 Sensors and Clocks

51 Cloud Database

36 Location sensors

52 Firebase Database

37 Accelerometer

53 Using Web API

38 Gyroscope

54 Weather Application

39 Orientation + Proximity Sensors

55 Design your own App

40 Spider Man Game

56 Build your own App

MODULE 6 – ADD APP FUNCTIONALITIES

MODULE 8 – BASICS OF GAME DEV

41 Revision of concepts

57 Introduction to Loops

42 Introduction to Maps

58 Nested Loops

43 Other Map Features

59 Music Jam Project

44 Bluetooth Server

60 Graphic Effects

45 Bluetooth Client

61 Create your own comic

46 Introduction to Storage + Files

62 Create your own stories

47 Intro to Databases

63 Text to Speech

48 Mini Golf Game

64 Race Chase Game

Class Wise Topics (3/4)

Class #

Topic Covered

Class #

Topic Covered

MODULE 9 – ANIMATIONS + PEN

65 Using the Pen

66 More Pen Functions

67 Pen Puzzles

68 2D Coordinates

69 Application of Coordinates

70 Animation Basics

71 Debugging

72 The Jump Game

MODULE 11 – CONDITIONAL LOOPS

81 Concept Revision

82 Controls + Debugging

83 Conditional Loops

84 Kaleidoscope Project

85 Arithmetic Operators

86 Random Operators

87 Using Lists

88 Voice Control Game – Egg Drop

MODULE 10 VARIABLES + CONDITIONAL

73 Start and Exit Game

74 Variables

75 Variables 2

76 Application of Variables

77 Conditionals + Comparisons

78 Sensing

79 Logical Operators

80 Ping Pong Ball Game

MODULE 12 - USING FUNCTIONS

89 Concept Revision

90 Ask and Wait Sensors

91 Number Guessing Game

92 Quiz Game

93 Functions

94 Applications of Functions

95 Advanced Pen Blocks

96 Christmas Tree Project

Class Wise Topics (4/4)

Class # Topic Covered

MODULE 13 - ADVANCED CONCEPTS

97 Make your own blocks

98 Cloning Effects Part 1

99 Cloning Effects Part 2

100 Platformer Game Part 1

101 Platformer Game Part 2

102 Design your own Game

103 Create your own Game

104 Add Game Extensions