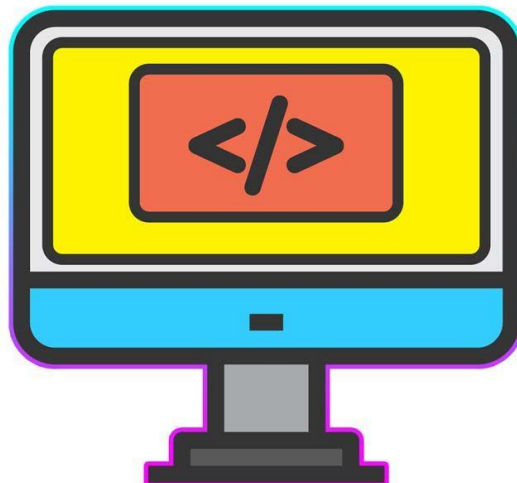# Creative { Coding }

WEB DEVELOPMENT

Ages 10+ yrs

Your learning path with NotchUp

Level 1

GAME DEVELOPMENT
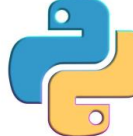
Ages 8-12
48 CLASSES

APP DEVELOPMENT

Ages 9-15
56 CLASSES

Level 2

WEB DEVELOPMENT

Ages 10+
48 + 16 CLASSES

PYTHON

Ages 12+
48 CLASSES

Level 3

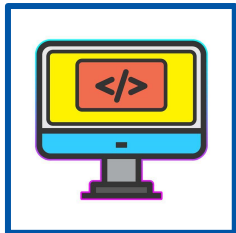**ADVANCED PYTHON WITH ARTIFICIAL INTELLIGENCE**

Ages 12+
48 CLASSES

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Plan Details

BASIC	PRO	ADVANCED
₹4,400 15%Off ~~₹5,200~~	**₹25,680** 18%Off ~~₹31,200~~	**₹50,400** 31%Off ~~₹72,800~~
GET VOUCHER WORTH **₹500**	GET VOUCHER WORTH **₹7,000**	GET VOUCHER WORTH **₹14,000**
EFFECTIVE PRICE **₹488/class**	EFFECTIVE PRICE **₹389/class**	EFFECTIVE PRICE **₹325/class**
8 Classes	48 Classes	112 Classes

BASIC	PRO	ADVANCED
✓ 1-on-1 Live Classes	✓ 1-on-1 Live Classes	✓ 1-on-1 Live Classes
✓ Covers basics of Web Dev (Module 1)	✓ Complete Web Dev (Module 1 to 6)	✓ Complete Web Dev & Python (Module 1 to 14)
✓ **1** detailed assessment report	✓ **6** detailed assessment report	✓ **14** assessment reports
✓ Additional after class projects	✓ Additional after class projects	✓ Additional after class projects
	✓ **1-year access*** to webinars & online forums	✓ **Unlimited access*** to webinars & online forums
	✓ **3** Free Revision Sessions	✓ **5** Free Revision Sessions
	✓ Web Developer **Certification**	✓ Web & Python Developer **Certification**
		✓ Includes **advanced** modules

Cancel Anytime. 100% Refund. No questions asked

* Limited time offer

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Course Details

WEB DEVELOPMENT

Students learn HTML, CSS , JavaScript and jQuery concepts through interactive projects – games, animations and applications.

PROGRAMMING LANGUAGES USED

HTML, Cascading Style Sheets (CSS), JavaScript and JQuery

CURRICULUM – 48 + 16 sessions

- Intro to Web Dev
- HTML Tables and CSS
- CSS Gradients
- Comparison Operators
- Loops and Arrays
- Date and Time
- Media Queries
- Media Player
- Formatting Tags & Text Styling
- Form Elements & Attributes
- JS Objects & Geolocation
- Intro to jQuery
- jQuery Effects
- jQuery Animations
- jQuery Filtering

SKILLS DEVELOPED

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

OUTPUT

- Profile Page
- Calculator
- Wishlist Program
- Bouncing Ball
- Tic Tac Toe
- Quiz Application
- Snake Game
- Responsive Website

Note: 48 sessions included in Pro, 16 sessions in Advanced

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Course Details

PYTHON

Students build computer applications + games using beginner to intermediate level of programming concepts on Python. Coding will be on Google Collab notebook + Python IDLE

CURRICULUM – 48 sessions

- Intro to Python
- Variables and Data Types
- Keywords & Type Conversion
- Turtle Module
- Control Statements
- Operators
- Introduction to Loops
- String manipulation
- Jumping Statements
- List, tuples and sets
- Functions
- Reading and writing
- File handling
- Programming practice
- Arguments & Recursion
- Introduction to datetime

SKILLS DEVELOPED

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

OUTPUT

- Hangman
- Tic Tac Toe Game
- Student Database Management system
- Turtle Race Game
- Flappy Bird
- Maze Game
- Tetris
- Pac Man
- Snake Game

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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

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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"

Sundar Pichai, CEO of Google and Alphabet

"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"

Elon Musk, Founder of Tesla and SpaceX

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Class Wise Topics (1/4)

Class #	Topic Covered	Class #	Topic Covered
MODULE 1 – INTRODUCTION TO HTML		**MODULE 3 – INTRODUCTON TO JS**	
TRIAL	Intro to Web Development		
1	HTML Page Structure, Editors	17	Concept Revision
2	HTML Elements & Attributes 1	18	Introduction to JavaScript
3	HTML Elements & Attributes 2	19	Js Variables + Objects
4	HTML Formatting Tags	20	Statements + Strings
5	Form Elements and Attributes 1	21	Operators
6	Form Elements and Attributes 2	22	Functions and Events
7	Creating Lists	23	Working with Loops and Arrays
8	Profile Pages	24	Calculator
MODULE 2 – INTRODUCTION TO CSS		**MODULE 4 – MIXING UP HTML+CSS+JS**	
9	Concept Revision	25	Concept Revision
10	Introduction to CSS	26	Header, Footer & Navigation
11	CSS Backgrounds	27	JS Conditions + CSS Gradients
12	CSS Borders + Margin	28	JS Math + CSS Dropdown
13	CSS Positions + Buttons	29	JS Random + CSS Shadow
14	CSS Display + Tables	30	HTML Media
15	CSS Padding + Icons	31	CSS Box + Gradients + Display
16	Creating a Time-Table	32	Two Page Website

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Class Wise Topics (2/4)

Class #	Topic Covered
MODULE 5 – INTERACTIVE APPLICATION	
33	Concept Revision
34	HTML Canvas
35	JS DOM + Drawing
36	Making Things Move
37	Bouncing a Ball
38	Control Animations – Keyboard
39	Control Animations – Sprites
40	Snake Game
MODULE 6 – MORE APPLICATIONS	
41	JS Date and Time Objects
42	CSS Animation
43	CSS Flex Box + View Port
44	CSS Media Query
45	CSS Grid
46	Quiz Game
47	Tic Tac Toe
48	Hotel Booking Website

Class #	Topic Covered
MODULE 7 – INTRO TO JQUERY	
49	Revision Class
50	Introduction to jQuery
51	Events in jQuery
52	jQuery Effects – Show + Hide
53	jQuery Effect Fade in +Fade out
54	jQuery Slide up + Slide down
55	jQuery Animation
56	jQuery Callback + Chaining
MODULE 8 - JQUERY FUNCTIONALTIES	
57	jQuery with HTML
58	jQuery with CSS
59	jQuery with Traversing
60	jQuery Filtering
61	More jQuery Events
62	jQuery CSS Cards
63	Create your own project 1
64	Create your own project 2

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Class Wise Topics (3/4)

Class #	Topic Covered
MODULE 9 – PYTHON BASICS	
65	Intro + Variables + Datatypes
66	Keywords and Operators
67	Operators Part 2
68	Turtle Module Part 1
69	Turtle Module Part 2
70	Turtle Module Part 3
71	Programming Practice
72	Exploring Shapes project
MODULE 10 - FLOW CONTROL	
73	Intro to Control Statement
74	Decision Control Statement
75	Iteration Statement
76	Jumping Statements & Pattern
77	Introduction to functions
78	Turtle Race Game
79	Programming Practice
80	Decision Making Tree

Class #	Topic Covered
MODULE 11 - DATATYPES	
81	Strings
82	List & Matrix manipulation
83	Tuple
84	Set
85	Intro to Pygame Module
86	Predictive Cricket Project
87	Programming Practice
88	Maze + Flappy Bird Game
MODULE 12 - FUNCTIONS	
89	Date Time Module
90	Types of Functions
91	Concept of Arguments
92	Recursive Functions
93	Tetris Game
94	Programming Practice
95	Mid Course Revision
96	Database Management System

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Class Wise Topics (4/4)

Class #   **Topic Covered**

MODULE 13 – MODULES IN PYTHON

97	Collections Module
98	Math and OS Module
99	Matplot Lib Module
100	Cannon + Memory Game
101	Programming Practice
102	PAC Man Game
103	Concept Revision Test
104	Tic Tac Toe Project

MODULE 14 – FILE HANDLING

105	Introduction to File Handling
106	Various Opening Modes in File
107	Dictionary Date Type 1
108	Dictionary Date Type 2
109	Hangman game
110	Programming Practice
111	Snake Game Part 1
112	Snake Game part 2

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