

IIT Bombay Mood Indigo Coding Project

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Learn coding with top teachers by building real-world projects and get a certificate from IIT Bombay Mood Indigo

Program Curriculum for Grades 9 - 12

Eligibility

Grade 1-12

Program Delivery

Online & Offline

CertificatesIIT Bombay Mood Indigo
STEM.org**Duration**

6 months

Session48 sessions of
1 Hour each**Highlights**2 Major Projects
Unlimited doubt sessions



Advanced Web Development & Python | Grade 9 - 12

Embark on a holistic coding journey! Master HTML to Python, from CSS styling to Bootstrap efficiency, and JavaScript interactivity. Dive into hands-on projects, preparing for the tech future with this immersive coding course.



Course Learning Outcome

- ✓ Advanced Web Development Skills with HTML, CSS, & Bootstrap
- ✓ Proficiency in JavaScript and Python
- ✓ Problem solving and critical thinking



Exclusive Benefits

- ✓ Unlimited doubt sessions 24x7 for all enrolled students
- ✓ Build an application and a website
- ✓ Host your website on a free .in domain



Module 1

FUNDAMENTALS OF HTML

"HTML Basics" teaches you how to create web pages, from writing text and adding media, to organizing data and making interactive elements, topped off with a mini project

Module Learning Outcomes

- ✓ Understand what HTML is and start writing it.
- ✓ Add media and interactive features.
- ✓ Learn about Tables, Links etc.
- ✓ Apply skills to a mini-project.

Language:
HTML

Platform:
[Repl.it](#)

6 Lessons & 10+ Projects

Module 2

FUNDAMENTALS OF CSS

This module walks you through styling web pages with CSS, from basics to advanced layouts and dynamic visual effects, culminating in a practical project.

Module Learning Outcomes

- ✓ Master CSS basics and layouts.
- ✓ Utilize advanced CSS features.
- ✓ Craft responsive designs.
- ✓ Apply skills in a mini project.

Language:
HTML, CSS

Platform:
[Repl.it](#)

6 Lessons & 10+ Projects

Module 3

BEGINNER BOOTSTRAP AND JAVASCRIPT

This module teaches you to enhance websites with Bootstrap's tools and JavaScript's interactivity, ending with a real-world project.

Module Learning Outcomes

- ✓ Learn Bootstrap's features.
- ✓ Understand JavaScript basics.
- ✓ Practice JavaScript .
- ✓ Apply skills in a mini-project.

Language:
BLOCK BASED

Platform:
[Repl.it](#)

6 Lessons & 10+ Projects



Module 4

INTERMEDIATE JAVASCRIPT

This module covers asynchronous operations, API interactions, practical challenges, and a comprehensive project.

Module Learning Outcomes

- ✓ Learn asynchronous JavaScript.
- ✓ Use APIs effectively.
- ✓ Solve JavaScript challenges.
- ✓ Build a significant project.

Language:
BLOCK BASED

Platform:
[Repl.it](#)

6 Lessons & 10+ Projects





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Module 5 **PYTHON BASICS**

Python Basics, teaches you how to start coding in Python. You'll learn everything from creating your first script to drawing with commands

Module Learning Outcomes

- ✓ Write your first Python script.
- ✓ Understand Python's basic elements.
- ✓ Control actions with 'if' statements and use time.
- ✓ Automate tasks with loops.
- ✓ Develop and use functions.
- ✓ Draw using Python's 'Turtle'.

Language:
PYTHON

Platform:
Repl.it

6 Lessons & 10+ Projects

Module 6 **ADVANCE PYTHON**

In "Advanced Python," you learn better ways to organize info and find out how to make Python do advanced tasks easily.

Module Learning Outcomes

- ✓ Learn 'lists' and 'dictionaries'.
- ✓ Explore 'sets' and 'tuples'.
- ✓ Create lifelike code objects and more.

Language:
PYTHON

Platform:
Repl.it

6 Lessons & 10+ Projects

Module 7 **SPECIALIZATION IN PYTHON**

Learn Python's file handling and explore the world of Tkinter, ending with a practical money-counter project

Module Learning Outcomes

- ✓ Learn to manage files in Python.
- ✓ Do advanced tasks with files.
- ✓ Start building with Tkinter.
- ✓ Add features to your Tkinter programs.
- ✓ Create a money-counting app.

Language:
PYTHON

Platform:
Repl.it

6 Lessons & 10+ Projects

Module 8 **TIME AND SPACE COMPLEXITY, MAJOR PROJECT**

Learn about Time and Space Complexity. Apply everything you have learned by creating a Major Project

Module Learning Outcomes

- ✓ Learn about time complexity.
- ✓ Learn about Space complexity.
- ✓ Put what you've learned to the test by creating your own project.

Language:
PYTHON

Platform:
Repl.it

6 Lessons & 10+ Projects





Hear what our students and parent have to say

“



Ojas Sharma

Grade 5, Codingal Student



The IIT Roorkee coding program was incredible! I learned by building real coding projects, and it made learning so much fun.

“



Aarav S

Grade 10, Codingal Student



I collaborated with peers & learned from expert teachers. The IIT Bombay coding competition boosted my creativity, critical thinking, and coding abilities.

“



Priyanka Sahni

Codingal Parent



The IIT Guwahati Hackathon created a strong foundation for my daughter's coding journey. The collaborative learning environment was remarkable

“



Riya

Grade 4, Codingal Student



I found Codingal's competitions and projects engaging. I've built my own website and learned so much about how the internet works. I'm enjoying my classes

**Got questions?
Contact us
anytime.**

Send us a message

support@codingal.com