

IIT Bombay Mood Indigo Coding Project

[Learn](#)[Build](#)[Get Certified](#)

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

Program Curriculum for Grades 4 - 5

Eligibility

Grade 1-12

Program Delivery

Online & Offline

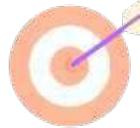
CertificatesIIT Bombay Mood Indigo
STEM.org**Duration**

6 months

Session48 sessions of
1 Hour each**Highlights**4 Major Projects
Unlimited doubt sessions



Scratch & AI | Grade 4 - 5



Unlock the world of technology! Create apps, games, and AI projects with this all-in-one course on app building, game development, Scratch basics & AI fundamentals



Course Learning Outcome

- ✓ Introduction to Artificial Intelligence
- ✓ Basics of App & Game development
- ✓ Foundations of algorithmic thinking



Exclusive Benefits

- ✓ Unlimited doubt sessions, 24x7.
- ✓ Build a Game, Application, Animation & an AI model
- ✓ Host your application on Play Store



Module 1

BASIC APPLICATION DEVELOPMENT

Create applications with elegant user interfaces and user interactions.

Module Learning Outcomes

- ✓ App Development Fundamentals
- ✓ Operator Proficiency
- ✓ Calculator Creation
- ✓ Randomness and Probability
- ✓ Interactive Application Design
- ✓ Problem-Solving and Logic

Language:
Block based

Platform:
Code.org (App Lab)

6 Lessons & 10+ Projects

Module 2

GUI APPS

Craft sophisticated applications like a personalized WhiteBoard app, survey app, all-in-one app, and many more.

Module Learning Outcomes

- ✓ Integrated Digital Tools
- ✓ Visual Collaboration and Communication
- ✓ Structured Data Collection
- ✓ Media Organization
- ✓ Rocket Science and Space Exploration

Language:
Block based

Platform:
App Lab

6 Lessons & 10+ Projects

Module 3

GAME DEVELOPMENT

Get introduced to Game Lab and immerse yourself in game-based learning.

Module Learning Outcomes

- ✓ Introduction to Game Development
- ✓ Character Animation and Storytelling
- ✓ Problem-solving and Level Design
- ✓ Physics and Object Behavior
- ✓ Interactive Conceptualization

Language:
JavaScript in Block based

Platform:
Code.org (Game Lab)

6 Lessons & 10+ Projects

Module 4

ADVANCE GAME DEVELOPMENT

Get introduced to JavaScript, Conditionals, Loops, and Functions.

Module Learning Outcomes

- ✓ Foundations of JavaScript
- ✓ Conditional Logic with Poxo
- ✓ Iterative Problem-Solving
- ✓ Function-Based Programming
- ✓ Space-Themed Major Project

Language:
JavaScript in Block based

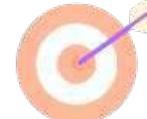
Platform:
Code.org (Game Lab)

6 Lessons & 10+ Projects





Scratch & AI | Grade 4 - 5



Module 5

SCRATCH ADVANCE 1

Learn about Direction Sense, Visuals, Solar System, Transitions, and Conditional Statements and Loops with Scratch

Module Learning Outcomes

- ✓ Introduction to Visual Programming
- ✓ Spatial Awareness and Direction Control
- ✓ Creative Visual Expression
- ✓ Astronomical Understanding
- ✓ Seamless Transitions and Animations

Language:
JavaScript in Block based

Platform:
Scratch

6 Lessons & 10+ Projects

Module 6

SCRATCH ADVANCE 2

Build on your basics of Scratch to develop Games in Scratch.

Module Learning Outcomes

- ✓ Microscopy and Scientific Inquiry
- ✓ Artificial Intelligence and Virtual Assistants
- ✓ Game Development and Design
- ✓ Major Project Development
- ✓ Space-Themed Major Project

Language:
JavaScript in Block based

Platform:
Scratch

6 Lessons & 10+ Projects

Module 7

ARTIFICIAL INTELLIGENCE BASIC

Explore AI with Scratch on aicode101! Discover AI, Decision Trees, and train your own AI model.

Module Learning Outcomes

- ✓ Artificial Intelligence Foundations
- ✓ Decision-Making with Decision Trees
- ✓ Emotion Recognition with Image Processing
- ✓ Computer Vision and Image Recognition
- ✓ Language Deciphering with Natural Language Processing
- ✓ Conversational Agents and Chatbots

Language:
JavaScript in Block based

Platform:
Scratch (aicode101)

6 Lessons & 10+ Projects

Module 8

ARTIFICIAL INTELLIGENCE ADVANCE

Integrate your AI model with your Scratch application and build an advanced application like no other.

Module Learning Outcomes

- ✓ Effective Communication and Knowledge Sharing
- ✓ Project Development and Creativity
- ✓ Biometric Security and Face Recognition
- ✓ Programming and Data Manipulation
- ✓ Space-Themed Major Project and Space Science

Language:
JavaScript in Block based

Platform:
Scratch (aicode101)

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

