



# Codingal

Where kids love coding

Grade 4

Hello ! Young Coders

# Get ready to Fall in love with coding

Accredited by





# About Codingal

Codingal offers online classes for K-12 students to learn coding by creating apps, building games and developing websites.

We offer live coding classes taught by all-star instructors with a computer science background.

Coding has been shown to have numerous benefits in multiple studies. According to one study, children's cognitive skills improved sevenfold with coding.

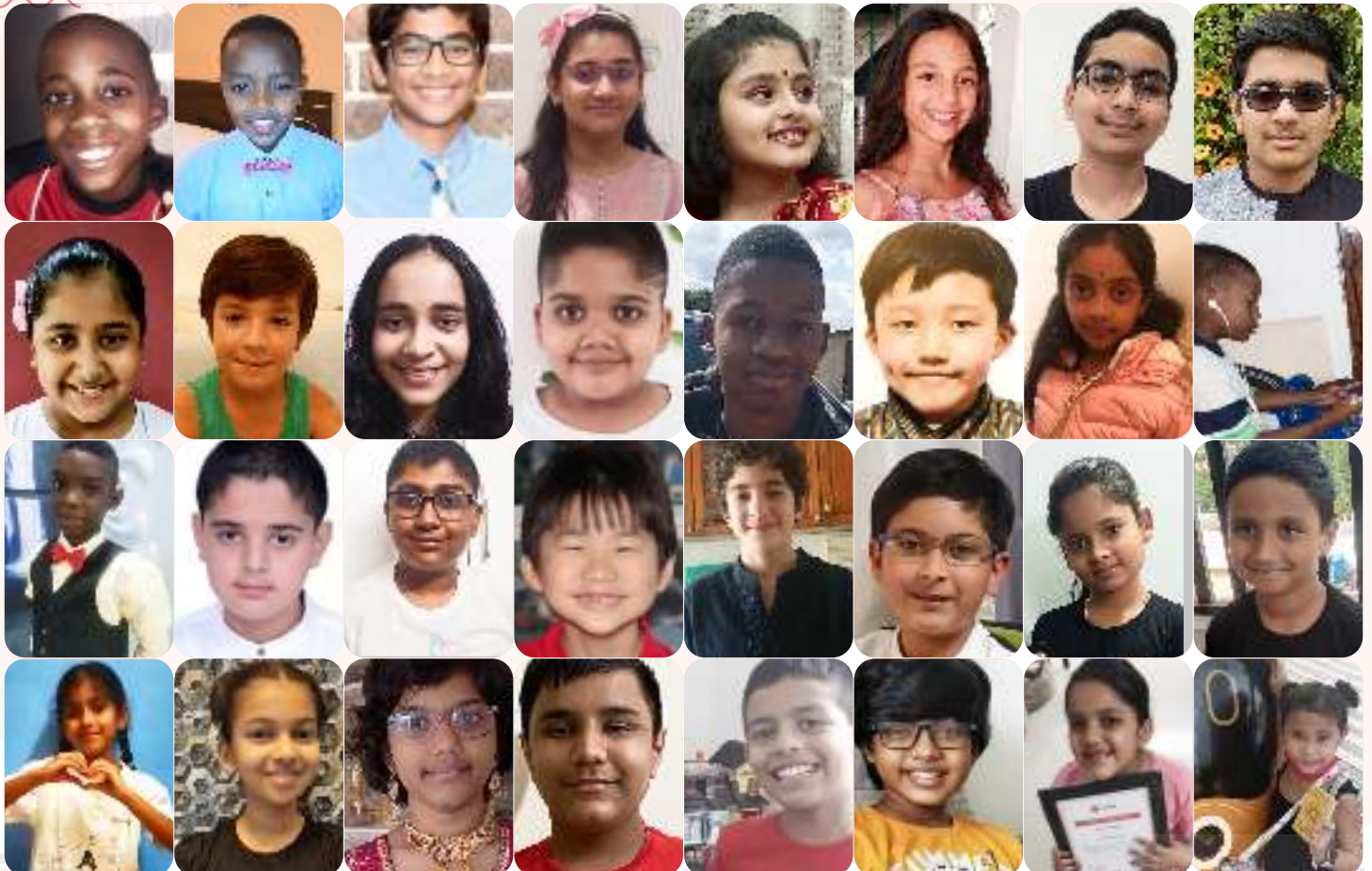
In addition to improving their computational abilities and logical thinking, coding improves their writing skills as well.

As a result, kids who begin coding at a young age will have a definite advantage.



## Our Mission

To inspire kids to fall in love with coding





## Founder's Note



Block



Teaching coding to kids is a huge responsibility. Our teachers and curriculum ensure we understand and own this fully.

### Vivek Prakash

Co-founder & CEO  
B.Tech & M.Tech, IIT Roorkee



Learning to code is not just about becoming a computer scientist. Coding empowers children at multiple levels.

### Satyam Baranwal

Co-founder & COO  
B.Tech, IIT Dhanbad



thunkable





# Codingal empowers kids to become innovators of the future



Bl

## Why should kids learn coding?



Coding is the new literacy.

In recent years, technology has made inroads into all aspects of our lives. We've come to rely on websites, apps and gadgets to help us through the day, be it at work or at home.

Given the enormous role technology is going to play in the future, teaching kids to code is the best way to prepare them for success.



## What are the benefits of learning coding?



- Helps develop problem solving skills
- Boosts analytical and structural thinking abilities
- Enhances creativity and imagination
- Helps find innovative solutions to real-life issues
- Helps develop resilience

## Why this curriculum?



- Accredited by STEM.org
- Rated 4.6 out of 5 by students and parents
- Based on BIDE (Broad, Inspiring, Deep and Efficient) model
- Focus on STEAM (Science, Technology, Engineering, Arts, Math) subjects
- Enhances cognitive, logical, and computational skills
- Makes learning highly effective, interactive, and fun

HTML



CSS



JS



thinkable





# Foundation of our curriculum

Accredited by



## BLOOM

Bloom's Taxonomy is a standard guideline for K-12 content development, which includes 6 stages of learning: Remember, understand, apply, analyze, evaluate and create.

## BIDE

The BIDE (Broad, Inspiring, Deep and Efficient) model has been developed by Codingal in-house to ensure that our curriculum caters to the unique learning style of every child.

## STEAM

STEAM is an approach to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue, and critical thinking.



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HTML



CSS



JAVASCRIPT

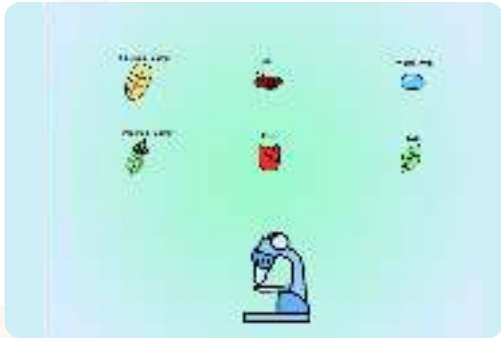




# Enhance Your Math and Science Concepts with Codingal



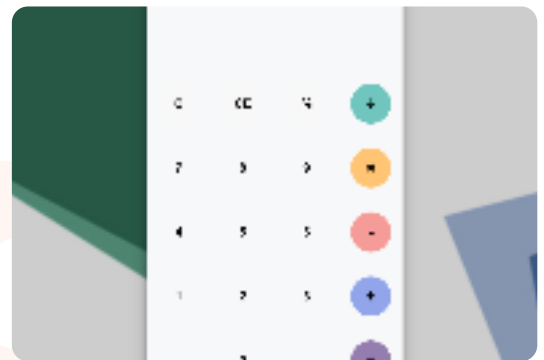
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Microscope

Codingal's mission is to provide students with the skills and mindset required to thrive in the twenty-first century. Our curriculum aims to help kids understand math and science through coding in an interactive and fun way.

Our coding courses are engineered to cover essential science and math concepts like integers, solar system, microorganisms, geometry, water cycle, etc., in a way that these concepts are imprinted on the kid's memory forever.



Calculator

Our teachers provide individual attention to kids, customize projects based on their interests and make them fall in love with Coding, Math, and Science.





# Coding Grandmaster- Overview (1)

A course for those who want to master the art of coding and build a deeper understanding of complex coding concepts for website development and Python.

144 Classes  
350+ Projects  
144 Quizzes



## Key learnings

- ✓ All Coding Prodigy learnings +
- ✓ App publishing
- ✓ JavaScript
- ✓ Advance Website development
- ✓ Python



## Achievements

- ✓ Conceptual clarity
- ✓ Analytical skills
- ✓ Confidence boost
- ✓ Student project

## Featured Projects



### Raindrop

Learn about variables with the help of Raindrop activity.



### Calculator

Create a personalised calculator app.

### Module 1

#### Animation and Storytelling

Learn basic programming while designing animations and puzzles in Minecraft.

Language:  
Block based

Platform:  
Code.org  
(Minecraft, Sprite Lab, Play Lab)

6 Lessons & 20+ Projects



Wobbling head



Minecraft



Unlock Animator certificate

### Module 2

#### Basic Application Development

Learn to create interactive and multiscreen applications.

Language:  
Block based

Platform:  
Code.org (App Lab)

6 Lessons & 20+ Projects



Voter app



Smile Please

### Module 3

#### GUI Apps

Learn how to bring your imagination into reality and build a treasure hunt app.

Language:  
Block based

Platform:  
Code.org (App Lab)

6 Lessons & 20+ Projects



Jumanji



Treasure Hunt



Unlock App developer Certificate





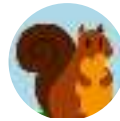
# Coding Grandmaster- Overview (2)

## Featured Projects



### Dice

Bring out your creativity by creating this Dice roller app.



### Collision with Gilu

Learn about collision of sprites by creating a bouncing ball game.

### Module 4

#### Game Development

Learn basic programming concepts while designing games in Game Lab.

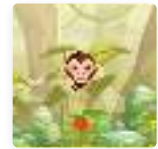
Language:  
Block based

Platform:  
Code.org (Game Lab)

6 Lessons & 15+ Projects



Spriteless  
animation



Catch Me

### Module 5

#### Advance Game Development

Learn functional and complex programming along with velocity and collision detection.

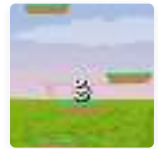
Language:  
Block based

Platform:  
Code.org (Game Lab)

6 Lessons & 10+ Projects



Rotation  
with plane



Save the  
cow



Unlock Game Developer Certificate

### Module 6

#### Basic Animation Development

Learn basic concepts like Loops and Conditionals. Enhance problem solving skills and logical development.

Language:  
Block based

Platform:  
Scratch

6 Lessons & 15+ Projects



Coordinate



Dress up  
Tera

### Module 7

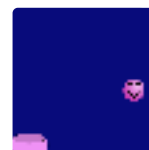
#### Game Design - I

Get introduced to coordinates and broadcast while making fun games like Mario Dash.

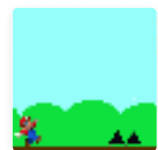
Language:  
Block based

Platform:  
Scratch

6 Lessons & 10+ Projects



Happy Balls



Mario dash

### Module 8

#### Game Design - II

Understand interlinking concepts with the help of Broadcast and Cloning in game.

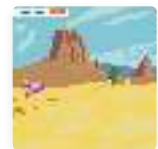
Language:  
Block based

Platform:  
Scratch

6 Lessons & 10+ Projects



Integer  
game



Hungry  
Casey



Unlock Scratch Developer Certificate



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# Coding Grandmaster- Overview (3)

## Featured Projects



### Launch your Flybot

Learn how to use velocity in your game by creating a Flybot.



### Save the cow

Rescue the cow from falling down the platforms.

#### Module 9

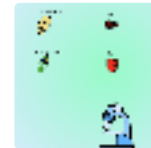
##### Advanced Game Design

Learn advanced animation effects and games like Pacman game.

Language:  
Block based

Platform:  
Scratch

6 Lessons & 10+ Projects



Microscope



Pacman

#### Module 10

##### Artificial Intelligence

Get introduced to the magical world of Artificial Intelligence. Create an image recognizer project using block coding.

Language:  
AI

Platform:  
Machine Learning for Kids

6 Lessons & 10+ Projects



Mailman



Happy Sad Dog

#### Module 11

##### Machine Learning

Get introduced to speech recognition and Machine Learning.

Language:  
AI

Platform:  
Machine Learning for Kids

6 Lessons & 10+ Projects



Underfitting



Roaming



Unlock AI programmer Certificate

#### Module 12

##### Mobile App Development

Introduction to basics of Application development. Create exciting games like Space Warriors.

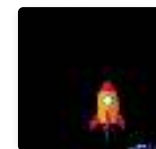
Language:  
Block based

Platform:  
Thunkable

6 Lessons & 10+ Projects



Health App



Space warriors

#### Module 13

##### Utility Apps

Learn to create an application that can check the strength of your password.

Language:  
Block based

Platform:  
Thunkable

6 Lessons & 10+ Projects



Check list app



Password strength checker



Unlock Basic Android Application Developer Certificate



# Coding Grandmaster- Overview (4)

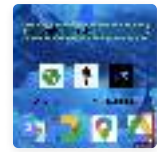
## Module 14 Native Applications

Learn how to build games and apps using cloud storage.

Language:  
Block based  
  
Platform:  
Thunkable  
  
6 Lessons & 10+ Projects



Snap it



All in one App

## Module 15 App Publishing

Learn how to pass data through Firebase and create exciting applications. Also publish your application on Play Store.

Language:  
Block based  
  
Platform:  
Thunkable  
  
6 Lessons & 10+ Projects



Sign in screen



Login App

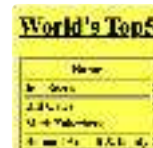


Unlock Advance Android Application Developer Certificate

## Module 16 Frontend Development

Learn about basics of web, and create your own webpages using HTML.

Language:  
HTML  
  
Platform:  
Repl.it  
  
6 Lessons & 20+ Projects



Tables



Youtube playlist

## Module 17 Webpage Styling

Learn to make your webpages more attractive by styling them using CSS.

Language:  
CSS  
  
Platform:  
Repl.it  
  
6 Lessons & 20+ Projects



Emoji magic



Registration form

## Module 18 Web App Development

Learn about bootstrap which will help to make the website responsive.

Language:  
HTML CSS  
  
Platform:  
Repl.it  
  
6 Lessons & 20+ Projects



Bootstrap carousel



Containers in Bootstrap



Unlock Web Developer Certificate

## Module 19 Advanced Front-end Development - I

Get introduced to JavaScript programming. Learn to create animations and make the website more interactive.

Language:  
HTML CSS JS  
  
Platform:  
Repl.it  
  
6 Lessons & 20+ Projects



Portfolio website



Square animation





# Coding Grandmaster- Overview (5)

## Featured Projects



### Integer Game

Combine Coding and Maths with this fun Integer game.



### Microscope

Learn how to use science concepts with coding by creating a Microscope.

### Module 20

#### Hosting Personal Websites

Create your own website and host it on the internet.

Language:  
HTML CSS JS

Platform:  
Repl.it

6 Lessons & 2+ Projects



Capstone project



## Unlock Advance Website Developer Certificate

### Module 21

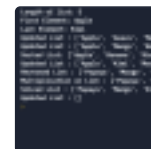
#### Python Programming

Create intricate patterns and animations using basic concepts of Python.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Work with lists



Fun with turtle

### Module 22

#### Object Oriented Programming

Learn about classes and objects. Create a Phonebook application.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Patterns



Phone book

### Module 23

#### Game Development on Python

Create advanced level games using Modules and Libraries in Python.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Rock Paper scissor :



## Unlock Python Programmer Certificate

### Module 24

#### JS App Development

Learn about app development using Javascript.

Language:  
JS

Platform:  
Repl.it

6 Lessons & 10+ Projects

#### Stopwatch



Stopwatch

#### Add your To Do List



To Do List



# Top 10 benefits of learning at Codingal



## 1. Regular PTM

Great opportunity for parents and teachers to open two-way communication and to share insights and information for the holistic development of a child.



## 2. Regular doubt session

After every module solve all your queries in this personalized session. The toughest problems addressed – concepts revised and doubts cleared!



## 3. Engaging quizzes

Quizzes are fun and help us remember important facts. These well-targeted and tailor-made quizzes will boost self-esteem and confidence among kids.



## 4. Thrilling competitions

Regular competitions are conducted to encourage students to showcase their skills and develop their ideas.



## 5. Learning Certificates

Show the world what you can do with a certificate for every amazing skill you master.





# Top 10 benefits of learning at Codingal



## 6. Live personalized classes

Understand concepts faster with personal attention from teachers. Learn coding from highly qualified teachers trained to make learning effective and impactful.



## 7. Lifetime access to class videos

Forgot what was taught in the last class? No worries. Watch the recorded class video anytime to refresh your memory.



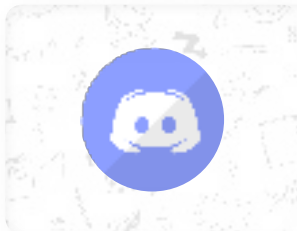
## 8. Lifetime access to resources

Get lifetime access to our exclusive learning content including DIY sheets, videos, and other resources.



## 9. Gamified learning

Codingal makes learning fun with gamification. Students can take quizzes or complete projects to earn points, badges, and rewards.



## 10. Community of young coders

Get access to our community of 150,000+ students to collaborate, share projects and solve real-world problems together.







# Innovative projects built by Codingal students



## Killing Corona

Azlan Tashildar

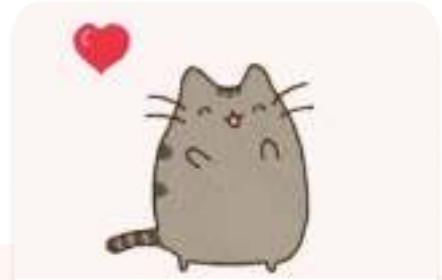
[View Project](#)



## Space war

Ishan Jadhav

[View Project](#)



## Animal Guessing App

Anvi Sikchi

[View Project](#)



## Talking duck

Luv

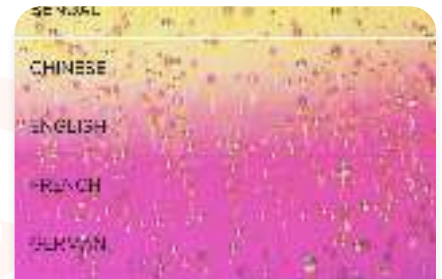
[View Project](#)



## Find Me!

Megha Rae

[View Project](#)



## Translator App

Devansh

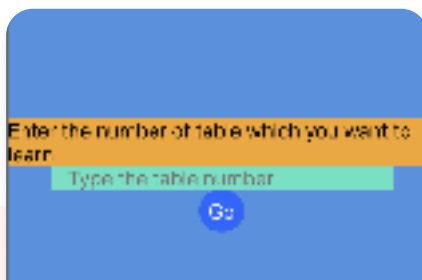
[View Project](#)



## Daily Explorer

Ashutosh Panda

[View Project](#)



## Fun with Tables

V Sreevatsav

[View Project](#)



## Multiplication Table

Aditya Nayak

[View Project](#)





# Students and parents love Codingal



**MVL Nikhila**

Codingal parent



The teachers at Codingal build a wonderful bond with their students and make sure the learning process is fun and interactive.



**Babar**

Codingal Student



Codingal offers an enhanced code learning experience compared to free resources and helped me learn faster.



**Saaransh Bansal**

Codingal Student



I'm glad to have learnt coding with Codingal. I now have two apps published on the Google Play Store.



**Aamer Akram**

Codingal Parent



Our overall experience with this team till now is quite fabulous so far.



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# Coding- Gateway to success in the future

“

Now is a great time to be entering the coding world because technology will change more in the next 10 years than it has in the last 50.

- Bill Gates



“

Whether you want to uncover the secrets of the universe, or you just want to pursue a career in the 21st century, basic computer programming is an essential skill to learn.”

- Stephen Hawking



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# Begin your kid's coding journey

## Is your child ready for the future?

Start their coding journey with  
Codingal today.



thunko

# Thank You

Built by alumni of

Google amazon



IIT Roorkee



IIT Dhanbad

In partnership with



IIT Bombay



IIT Guwahati



Hewlett Packard  
Enterprise



BITS Pilani

Accredited by STEM.org



Backed by



Combinator



## Got questions? Contact us anytime.

Send us a message



[support@codingal.com](mailto:support@codingal.com)



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Where kids love coding

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