



**Codingal**  
Where kids love coding

Grade 8

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



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



# Codingal empowers kids to become innovators of the future

## 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



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.

## 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.

## BIDE

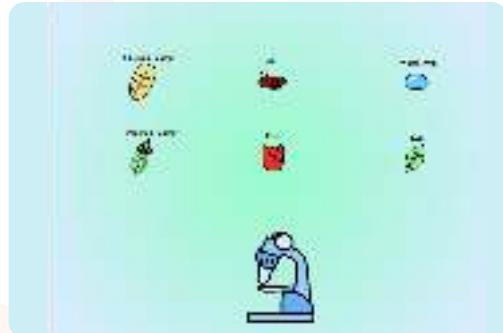
The BIDE (Broad, Inspiring, Deep and Efficient) model has been developed by Codingal in-house to ensure that our curriculum caters to the unique learning style of every child.



Covers K-12 Computer Science Framework compliant

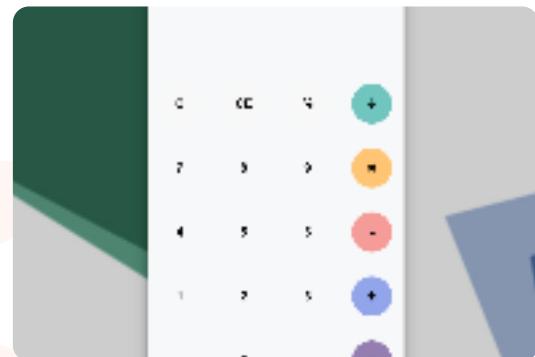


# Enhance Your Math and Science Concepts with Codingal



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.



Calculator

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.

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 get a hands on experience in Website development and Python.

144 Classes  
350+ Projects  
144 Quizzes



## Key learnings

- ✓ All Coding Prodigy learnings +
- ✓ Advance Python
- ✓ Game development using Python
- ✓ Data Science introduction



## Achievements

- Advance coding concepts
- Analytical skills
- Creativity

## Featured Projects



### Integer Game

Combine coding and math with this fun integer game.



### Microscope

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

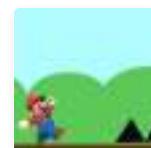
#### Module 1 Game Design - I

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

Language:  
Block based

Platform:  
Scratch

6 Lessons & 10+ Projects



KBC

Mario dash

#### Module 2 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

Snake game

#### Module 3 Advanced Game Design

Learn advanced animation effects and games like Pacman game.

Language:  
Block based

Platform:  
Scratch

6 Lessons & 10+ Projects



Microscope

Pacman



Unlock Scratch Developer Certificate



# Coding Grandmaster- Overview (2)

## Featured Projects



### Donut Game

Learn to create a fun Android development game.



### Messenger

Create a Whatsapp-like chat application using firebase.

#### Module 4

##### 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 5

##### 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 6

##### Mobile App Development

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

Language:  
Block Based

Platform:  
Thunkable  
6 Lessons & 10+ Projects



### Image recognizer



### Space warriors

#### Module 7

##### Utility Apps

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

Language:  
Block Based

Platform:  
Thunkable  
6 Lessons & 10+ Projects



### Mole mash



### password strength checker



## Unlock Basic Android Application Developer Certificate

#### Module 8

##### 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



# Coding Grandmaster- Overview (3)

## Featured Projects



### Bootstrap Carousel

Use carousels to add slideshows of pictures to make your webpage more interactive.



### Calculator

Create a standard calculator using HTML, CSS and Javascript.

### Module 9 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

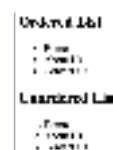
### Module 10 Front-end Development

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

Language:  
HTML

Platform:  
Repl.it

6 Lessons & 20+ Projects



Lists



Table

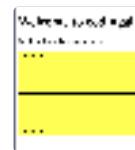
### Module 11 Webpage Styling

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

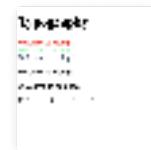
Language:  
CSS

Platform:  
Repl.it

6 Lessons & 20+ Projects



Transform



Typography

### Module 12 Web App Development

Learn about bootstrap which will help to make the website responsive. Use numerous HTML and CSS templates for UI interface elements.

Language:  
HTML CSS

Platform:  
Repl.it

6 Lessons & 20+ Projects



Vertical  
scrollspy



Container  
Fluid



### Unlock Web Developer Certificate

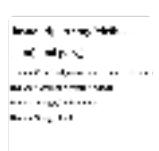
### Module 13 Advanced Front-end Development - I

Get introduced to JavaScript programming. Learn to add interactive behaviours to a webpage using Javascript.

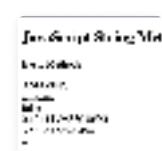
Language:  
HTML CSS JS

Platform:  
Repl.it

6 Lessons & 20+ Projects



Methods in  
JS



Methods in  
array

# Coding Grandmaster- Overview (4)

## Module 14

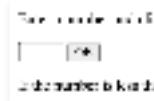
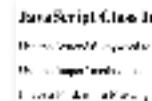
### Advanced Front-end Development - II

Get ready to add extraordinary behaviours to your web pages through advance concepts of JavaScript.

Language:  
HTML CSS JS

Platform:  
Repl.it

6 Lessons & 20+ Projects



Class Inheritance

Validation using API

## Module 15

### JS App Development

Learn about app development using Javascript.

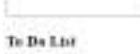
Language:  
JS

Platform:  
Repl.it

6 Lessons & 10+ Projects

Stopwatch

Add your To Do List



To Do List

## Module 16

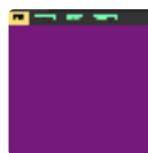
### Hosting Personal Websites

Create your own website using HTML, CSS and Javascript.

Language:  
HTML CSS JS

Platform:  
Repl.it

6 Lessons & 2+ Projects



Navigation Bar

Slider



Unlock Frontend Developer Certificate

## Module 17

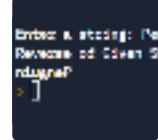
### Python Basics

Learn about Python basics including data types, operators and conditional statements.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Profit Loss

String Reverse

## Module 18

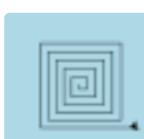
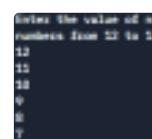
### Problem Solving using Loops

Learn about the essential concept of programming called Loops.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Numbers in Reverse

Spiral

## Module 19

### Advanced Python

Get introduced to the concept of Functions and Exception Handling in Python.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Trip Expenditure

Value Error



Unlock Python Developer Certificate



# Coding Grandmaster- Overview (5)

## Featured Projects



### Denomination Calculator

Create a Denomination Calculator App using Tkinter Library of Python.



### Prime Number

Program to check whether number entered by the user is prime or not.

#### Module 20

#### Python Data Structures

Learn the concept of data structures - List, Tuple, Dictionary and Set along with their common functions.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 20+ Projects



Trip Expenditure



Value Error

#### Module 21

#### Object Oriented Programming

Learn about Object Oriented Programming concepts and how to implement them in Python.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 20+ Projects



That's the exit



Word Matching

#### Module 22

#### Game Development

Learn about all the necessary components for creating a video game step by step using Pygame.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 20+ Projects



Level Up the Game



Space Invader

#### Module 23

#### GUI Development

Get introduced to the Python library Tkinter that can help create GUI applications.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 20+ Projects



Image Makes It Better



Tkinter Widgets

#### Module 24

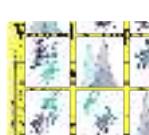
#### Introduction to Data Science

Learn what is Data Science and the commonly used libraries of Python-like Numpy, Pandas, Matplotlib and Seaborn.

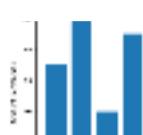
Language:  
Data Science

Platform:  
Google Collab

6 Lessons & 10+ Projects



Penguin Data Visualization Project



Student Marks Bar Plot



## Unlock Data Scientist Certificate





# 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.



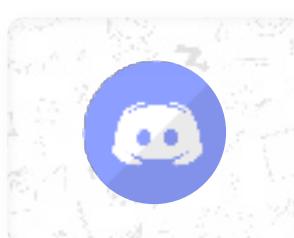
## 8. Lifetime access to resources

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



## My website

Suryansh

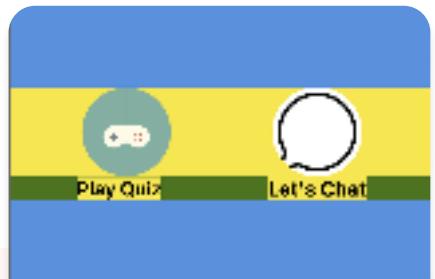
[View Project](#)



## Forever Jumping a Platformer Engine

Parth Sharma

[View Project](#)



## Learn With Me

Shubham Shahapure

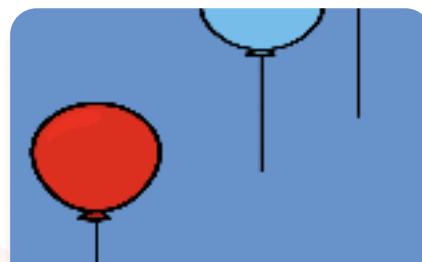
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## Save Mickey

Mansi Gupta

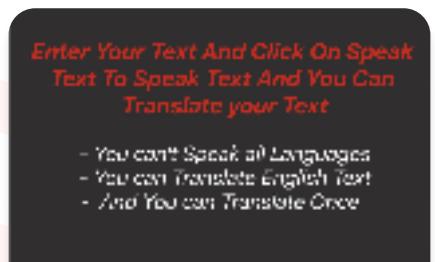
[View Project](#)



## Pop the balloon

Shraddha Bhattiprolu

[View Project](#)



## Text Translator App

Parth Andhare

[View Project](#)



## Covid-19 website

Divyesh Shrikrishna

[View Project](#)



## Seven wonders of the world

Akshat Kumar Yadav

[View Project](#)



## Quizzer

Tiya Chakole

[View Project](#)



# Students and parents love Codingal



Gladys

Codingal Student



Codingal personalized the course for me and allowed me to learn coding at my own pace from the comfort of home.



Eva Meshack

Codingal Parent



One of a kind virtual coding system. I like the trainers and the classes designs. A well thought ideology.



Advitiya Rishikesh

Codingal Student



My teacher always goes the extra mile and explains concepts in a manner that I can understand.



Amol Sharma

Codingal Parent



Codingal's well-structured courses have made coding fun for my son. They're the best and the quickest.



# 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





# Begin your kid's coding journey

## Is your child ready for the future?

Start their coding journey with  
Codingal today.



# Thank You

Built by alumni of

**Google** **amazon**



IIT Roorkee



IIT Dhanbad

In partnership with



IIT Bombay



IIT Guwahati

**Hewlett Packard Enterprise**



BITS Pilani

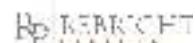
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Backed by



Y Combinator



Got questions?  
Contact us  
anytime.

Send us a message

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