



# Codingal

Where kids love coding

Python for Kids

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 1:1 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



thinkable





# Coding 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



thankable



# 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.





# Enhance your kid's Math and Science concept with Codingal



```

Operations on Sets
Show files
Set : {1, 2, 3, 4}
Updated Set: {1, 2, 3, 4, 5}

Set 1 {1, 2, 3, 4, 5}
Set 2 {2, 4, 6}
Difference
{1, 3, 5}

```

Set Operations

Our engineered coding courses cover essential math concepts like prime numbers, factorials, sets, statistics, probability, etc., helping students understand the concepts and implement them in the practical world. It also helps them in building strong logic for problem-solving.

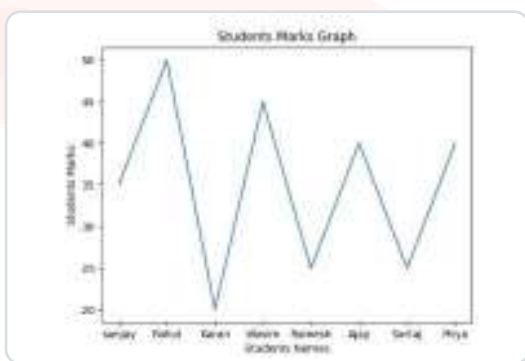
Coders must strengthen their algorithmic and computational thinking to write a line of code that works well and is bug-free. And what is a possible way of thinking at their core? Math.

```

Prime Number Check
Show files
Enter number to be checked :29
29 is a prime number

```

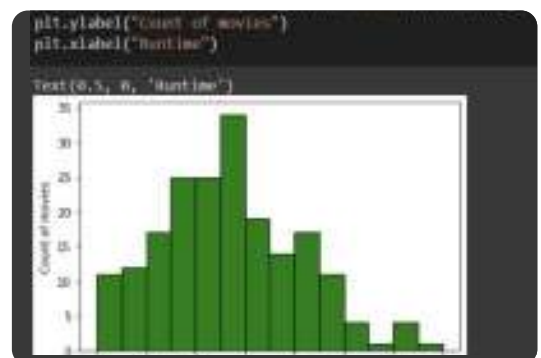
Prime Number Check



Students' Marks Graph

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

With all the data available, Math plays a vital role in identifying various patterns and answering questions to explain human behavior for implementing the same while automating a task. This is where coding and Math go hand in hand.



IMDB Ratings Data Analysis





# Specialised Python Course- Overview (1)

A course to advance your coding skills and learn to build games, create GUI, and solve problems using python.

44 classes  
150+ Projects  
44 Quizzes



## Key learnings

- ✓ Basics of python
- ✓ Data Structures
- ✓ Object Oriented Programming
- ✓ Game Development
- ✓ GUI using Tkinter



## Achievements

- ✓ Improved aptitude
- ✓ Critical thinking
- ✓ problem-solving in Python
- ✓ Learning through projects

## Featured Projects



### 1. Calculator

Create a Denomination calculator with Tkinter.



### Rock Paper Scissor

Create your own interesting games.

### Module 1

#### Python Basics

Get Introduced to Python- keywords and Variables, Data Types, Conditional Statements, Operators and their types.

Language:  
Python

Platform:  
Replit

8 Lessons & 20+ Projects



Star



Rainbow Spiral

### Module 2

#### Let's Begin with Loops

Learn Nested Conditional Statements, Loops - For, While, Nested Loops, Python Turtle library.

Language:  
Python

Platform:  
Replit

6 Lessons & 15+ Projects



Library Management System



Operations on Data Structures

### Module 3

#### Python Functions and Modules

Learn Functions, Concept of Recursion, Exception Handling, Python Modules - Math, Random, Date, and Time.

Language:  
Python

Platform:  
Replit

6 Lessons & 15+ Projects



Denomination Calculator



Rock Paper Scissor





# Specialised Python Course- Overview (2)

## Module 4

### Data Structure in Python

Learn Data Structures in python - List, Tuple, Dictionary, and Set.

Language:  
Python

Platform:  
Replit

6 Lessons & 15+ Projects



O(n^2)



RomanToInt

## Module 5

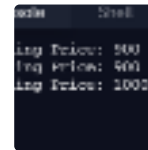
### Object Oriented Programming

Learn OOPs Concepts - Classes, Objects, Constructor, Destructor, Inheritance, Abstraction, Encapsulation, Polymorphism.

Language:  
Python

Platform:  
Replit

6 Lessons & 15+ Projects



Computer Price



Employee In \_ Out



Unlock Advance Python Developer Certificate

## Module 6

### Game building with Pygame

Learn Game Development using Pygame Module of Python.

Language:  
Python

Platform:  
Replit

6 Lessons & 15+ Projects



Space Invader



Blocks Collision

## Module 7

### GUI using Python Tkinter

Learn to build GUI using Tkinter - Window, Widgets, Multiple Windows; and Capstone Project.

Language:  
Python

Platform:  
Replit

6 Lessons & 15+ Projects



Decorated Calculator



TKinter GUI



Unlock Python Game Developer 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.



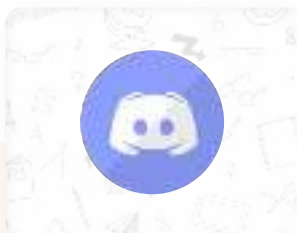
## 8. Lifetime access to resources

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



## Random password generator

Ganeev Singh Tuteja

[View Project](#)



## Random password generator

Ganeev Singh Tuteja

[View Project](#)



## Random password generator

Ganeev Singh Tuteja

[View Project](#)





# Students and parents love Codingal

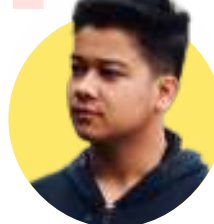


**Razzaq Ahmed**

Codingal Parent



I love the way teachers provide a fully personalized learning experience to prepare my child for a bright future.



**Aaditya Khanal**

Codingal Student



Codingal is an incredible platform for students looking to learn to code. It has helped me become an accomplished coder by making the learning process fun and interactive.



**Nishika Parikh**

Codingal Student



I like that I can customize and pace my learning journey according to my comfort with Codingal.



**J.D sharma**

Codingal Parent



The teachers at Codingal are highly qualified and patient. The curriculum at is thoughtful. Thank you Codingal for making my kid learn to code interactively.





## 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

Accredited by STEM.org



Backed by



Combinator



Got questions?  
Contact us  
anytime.

Send us a message



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