



# Codingal

Where kids love coding

Grade 12

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



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# 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



Blog

```
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.

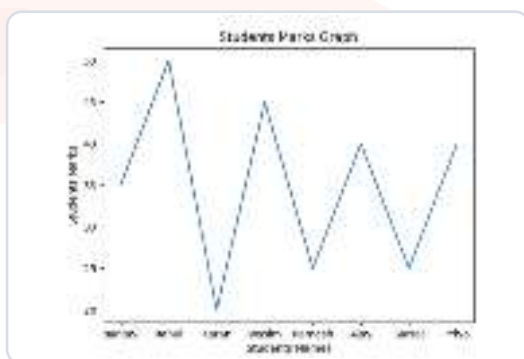
Coders must strengthen their algorithmic and computational thinking to write a line of code that works well and is bug-free. And what is a possible way of thinking at their core? Math.

```
Prime Number Check

Show files

Enter number to be checked :29
29 is a prime number
```

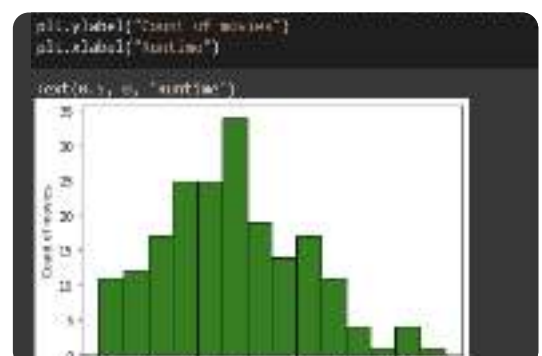
Prime Number Check



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



# Coding Prodigy- Overview (1)

A course to advance your coding skills and build a deeper understanding of complex coding concepts.

96 Classes  
184+ Projects  
96 Quizzes



## Key learnings

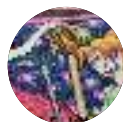
- ✓ Basics of Data Science
- ✓ Machine Learning
- ✓ Java



## Achievements

- ✓ Logic Building
- ✓ Data Interpretation
- ✓ Data Science
- ✓ Capstone Project

## Featured Projects



### Bootstrap Carousel

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



### Registration Form

Use HTML to create your own registration form Web Page.

### Module 1

#### Front-End Development

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

Language:  
HTML

Platform:  
Repl.it

6 Lessons & 20+ Projects



Fieldset in  
HTML



Tables in  
HTML

### Module 2

#### Webpage Styling

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

Language:  
CSS

Platform:  
Repl.it

6 Lessons & 20+ Projects



Opacity  
Property



Typography

### Module 3

#### Web App Development

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

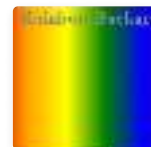
Language:  
HTML CSS

Platform:  
Repl.it

6 Lessons & 20+ Projects



Border and  
Container



Carousel



## Unlock Web Developer Certificate

### Module 4

#### 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 & 25+ Projects



JS String  
Methods



Real-time  
Application



# Coding Prodigy- Overview (2)

## Featured Projects



### Calculator

Create a standard calculator using HTML, CSS and Javascript.



### Bank App

Create a web application that tells you your current balance based on your transaction history.

### Module 5

#### 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

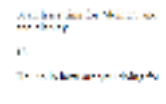
6 Lessons & 25+ Projects

JavaScript While Loop



JS While Loop

JavaScript String V



Search and Replace String



Unlock Frontend Developer Certificate

### Module 6

#### Python Basics

Learn about Python basics including conditional statements, loops and functions.

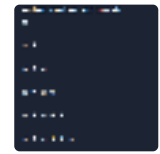
Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



Rainbow Spiral



Star Pattern

### Module 7

#### Advanced Python

Learn about Python data structures and Object Oriented Programming.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 25+ Projects



List to Dictionary



Polymorphism

### Module 8

#### Python Specialization

Get introduced with File Handling and Python library Tkinter that can help create GUI applications.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 20+ Projects



Image Makes it Better



Tkinter Widgets



Unlock Python Programmer Certificate



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# Coding Prodigy- Overview (3)

## Featured Projects



### Movie Recommendation System

Create a movie recommendation system that helps you predict recommendations of movie for a user.



### Titanic Survival Prediction

Perform Exploratory Data Analysis on Titanic Data to unravel various factors affecting survival of a passenger.

#### Module 9

### Introduction to Data Science

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

Language:  
Python

Platform:  
Google Colab

6 Lessons & 10+ Projects



Penguin  
Data  
Visualization  
Project



Student  
Marks Bar  
Plot

#### Module 10

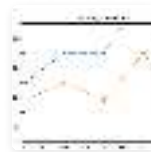
### Data Visualization

Learn how to draw insights from data using visualization in Python.

Language:  
Python

Platform:  
Google Colab

6 Lessons & 10+ Projects



Velocity  
Time Graph



Data  
Cleaning



## Unlock Data Scientist Certificate

#### Module 11

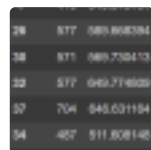
### Machine Learning - 1

Learn about basics of Machine Learning, its types and Regression.

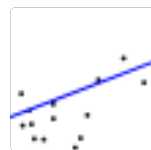
Language:  
Python

Platform:  
Google Colab

6 Lessons & 10+ Projects



Multiple  
Linear  
Regression



Regression  
Analysis

#### Module 12

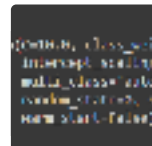
### Machine Learning - 2

Learn about Classification and Recommendation Systems.

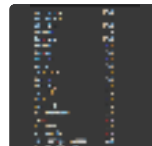
Language:  
Python

Platform:  
Google Colab

6 Lessons & 10+ Projects



Logistic  
Regression



Movie  
Recommendation  
System



# Coding Prodigy- Overview (4)

## Module 13

### Deployment Basics

Get introduced with Flask and basic functionalities to create basic deployed web pages.

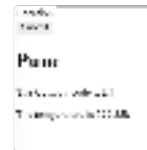
Language:  
Python

Platform:  
Repl.it

6 Lessons & 10+ Projects



Login Page



Weather App

## Module 14

### Advance Deployment

Learn advanced concepts of deployment using Python Flask to understand how to create you web applications more interactive.

Language:  
Python

Platform:  
Repl.it

6 Lessons & 10+ Projects



Flask Mail App



Flask-wtf



Unlock Advance AI Programmer Certificate

## Module 15

### Java Programming - 1

Get started with basic concepts of Java Programming like - loops and conditional statements.

Language:  
Java

Platform:  
Repl.it

6 Lessons & 25+ Projects



Mind Riddler



Students

## Module 16

### Java Programming - 2

Learn more about the OOPS concepts like encapsulation and polymorphism and also exception handling.

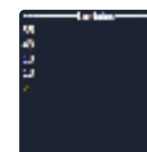
Language:  
Java

Platform:  
Repl.it

6 Lessons & 15+ Projects



Intern Hiring



Magic 1



Unlock Java Programmer Certificate



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# 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



## AirQuality

Hussain Wangrelwala

[View Project](#)



## Climate change effects

Shambhavi Barnwal

[View Project](#)



## Food recipe

Shobhita

[View Project](#)



## Cov-Fight

Ansh Singh

[View Project](#)



## Fight against Corona

Yuvraj Naik

[View Project](#)



## Climate change website

Aditya Verma

[View Project](#)



## Rock Paper Scissor

P.Anarghya

[View Project](#)



## Reduce, reuse and recycle

Aditya Kumar Gupta

[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.



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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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