



Codingal
Where kids love coding

Grade 11

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.

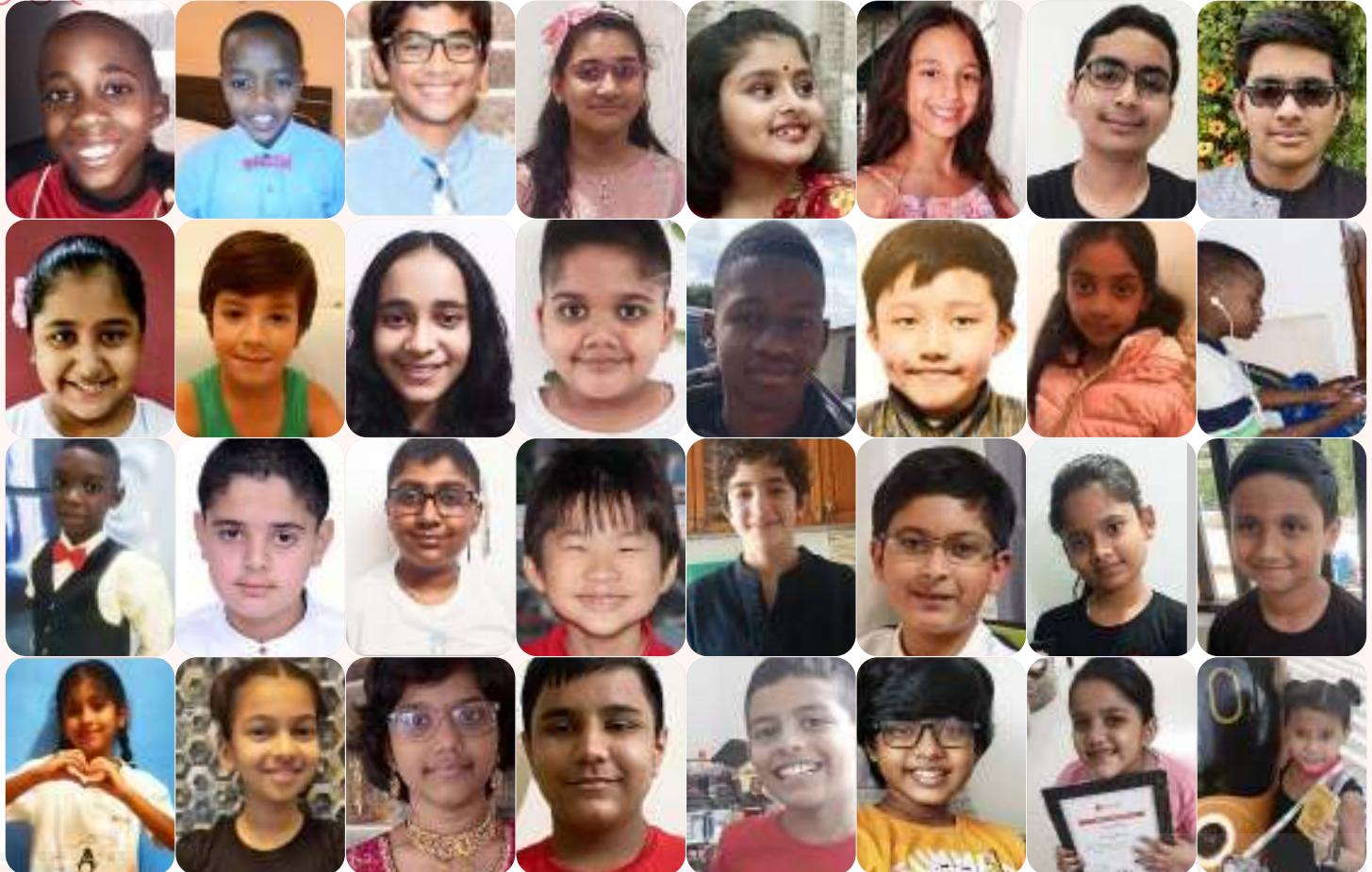
Coding has been shown to have numerous benefits in multiple studies. According to one study, children's cognitive skills improved sevenfold with coding.

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



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 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

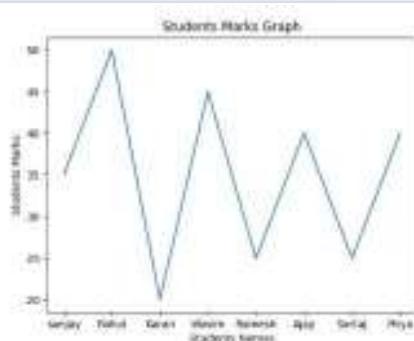
Our engineered coding courses cover essential math concepts like prime numbers, factorials, sets, statistics, probability, etc., helping students understand the concepts and implement them in the practical world. It also helps them in building strong logic for problem-solving.

Prime Number Check

Show files

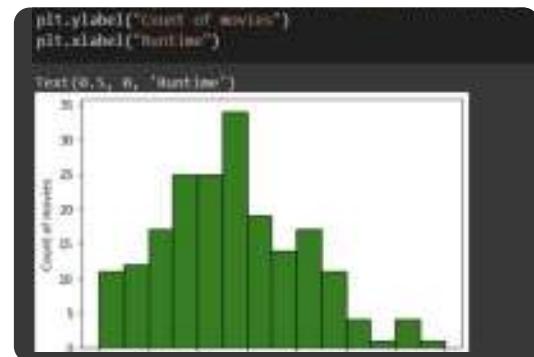
```
Enter number to be checked :29
29 is a prime number
[ ]
```

Prime Number Check



Students' Marks Graph

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



thunkable



Creator of tomorrow - Your kid's learning journey

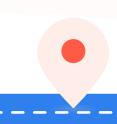
Web Developer
Certificate



Data Scientist
Certificate



Advance AI
Programmer
Certificate



Coding Champion

48 Classes
100+ Projects
48 Quizzes

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

Frontend Developer
Certificate



Python
Programmer
Certificate

Java
Programmer
Certificate



Coding Prodigy

96 Classes
184+ Projects
96 Quizzes

A perfect course for kids who want to get introduced to world of Data Science and Java Programming.

Coding Champion- Overview (1)

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

48 Classes
100+ Projects
48 Quizzes



Key learnings

- ✓ HTML CSS
- ✓ Git and Github
- ✓ Basic Python
- ✓ Javascript



Achievements

- ✓ Conceptual clarity
- ✓ Creative boost
- ✓ Advance Web Development
- ✓ 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

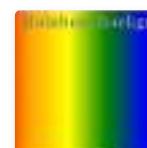
Module 3 Web App Development

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

Module 4 Advanced Front-end Development - I

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

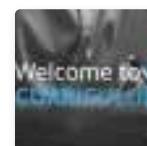
Language:
HTML CSS JS

Platform:
Repl.it

6 Lessons & 25+ Projects



JS String
Methods



Real-time
Application

Coding Champion- Overview (2)

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

48 Classes
100+ Projects
48 Quizzes

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

```
for (var i = 0;  
    i < 10;  
    i++) {  
    console.log(i);  
}
```

JS While Loop

JavaScript String M

```
function stringM(str){  
    return str + "ing";  
}  
  
stringM("Hello")
```

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

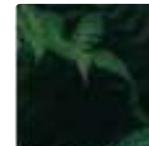


Image Makes it Better



Tkinter Widgets



Unlock Python Programmer Certificate

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

- ✓ All Coding Champion learnings
- ✓ Basics of Data Science
- ✓ Machine Learning
- ✓ Java



Achievements

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

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.



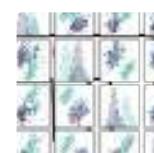
Module 9 Introduction to Data Science

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

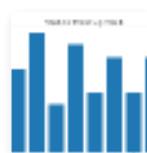
Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects



Penguin Data Visualization Project



Student Marks Bar Plot

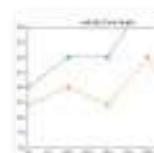
Module 10 Data Visualization

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

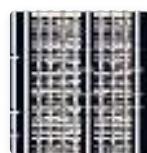
Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects



Velocity Time Graph



Data Cleaning

Module 11 Machine Learning - 1

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

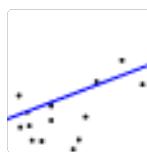
Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

26	877	089.000394
28	871	089.238413
22	577	049.774600
37	704	049.031194
24	487	511.508149

Multiple Linear Regression



Regression Analysis

Coding Prodigy (2)

Module 12

Machine Learning - 2

Learn about Classification and Recommendation Systems.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

(GDBM, Class with intercept scaling multiple classes random state, n_neighbors, n_neighbors values)



Logistic
Regression

Movie
Recommendation System

Module 13

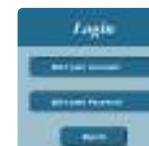
Deployment Basics

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 your 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

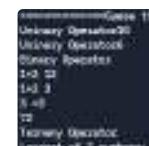
Java Programming - 1

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



thunkable





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



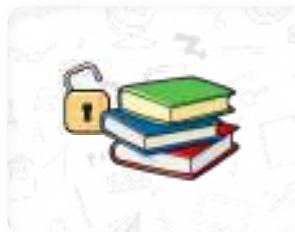
6. Live personalized classes

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

Air Quality Index :
4 → Poor

AirQuality
Hussain Wangrelwala
[View Project](#)

CLIMATE CHANGE

Climate change effects
Shambhavi Barnwal
[View Project](#)

Food recipe-Veg Hakka

mina. It consists of long strands of maid
Food recipe
Shobhita
[View Project](#)

COV-FIGHT

Helping you fight the n strain.

Cov-Fight
Ansh Singh
[View Project](#)

Fight against Corona

Yuvraj Naik
[View Project](#)

PA

Compatible with Mobile
CLICK THE

Climate change website
Aditya Verma
[View Project](#)

Rock Paper Scissor

Player vs Computer

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 is thoughtful. Thank you Codingal for making my kid learn to code interactively.



thunkable



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



IIT Roorkee



IIT Dhanbad

In partnership with



IIT Bombay



IIT Guwahati



BITS Pilani

Accredited by STEM.org



Backed by



Got questions?
Contact us
anytime.

Send us a message

support@codingal.com