



Codingal

Where kids love coding

Data Science

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.



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.

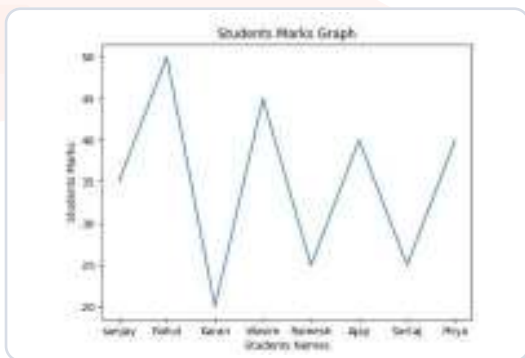
Coders must strengthen their algorithmic and computational thinking to write a line of code that works well and is bug-free. And what is a possible way of thinking at their core? Math.

```

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

```

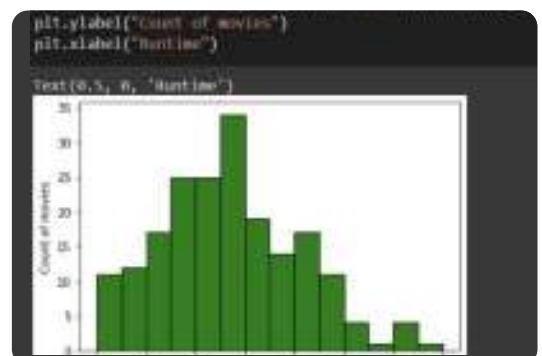
Prime Number Check



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





Data Science

A course to advance your coding skills and learn to solve problems using python and data structure.

168 classes
100+ Projects
168 Quizzes



Key learnings

- ✓ Basics of python
- ✓ Data Structures and Object
- ✓ Oriented Programming
- ✓ Bit Manipulation
- ✓ Recursion
- ✓ Problem Solving



Achievements

- ✓ Improved aptitude
- ✓ Critical thinking
- ✓ problem solving in Python

Featured Projects



1. Calculator

Create a Denomination calculator with Tkinter.



Rock Paper Scissor

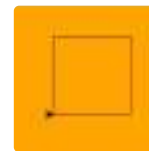
Create personalized games.

Module 1 Python Introduction

Learn the basics of Python like Data types, Conditionals, Loops, and Functions.

Language:
Python
Platform:
Replit

6 Lessons & 20+ Projects



Square on Canvas



Rainbow Spiral

Module 2 Advance Python

Learn about data structures and object-oriented programming. Create various programs using these concepts

Language:
Python
Platform:
Replit

6 Lessons & 20+ Projects



List to Dictionary



Operations on Tuppleman

Module 3 Specialization in Python

Learn File Handling and Operations on file using Python. Also learn how to use Tkinter library in python.

Language:
Python
Platform:
Replit

6 Lessons & 20+ Projects



Denomination Calculator



Image makes it better



Unlock Python Developer Certificate



Data Science

Module 4 Data Structure I

Learn about time and space complexity, its importance, and how it is calculated.

Language:
Python

Platform:
Replit

6 Lessons & 15+ Projects



That's a fact



Palindrom Number

Module 5 Bit Manipulation

Learn in-depth about bit manipulation and its various applications using python.

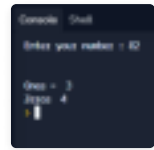
Language:
Python

Platform:
Replit

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Power set



Ones and Zeros

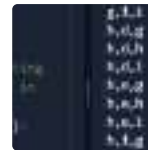
Module 6 Recursion

Learn about Recursion, its types, and its applications. Learn to do Problem Solving using recursion.

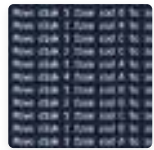
Language:
Python

Platform:
Replit

6 Lessons & 20+ Projects



Phone Keypad



Tower of Hanoi

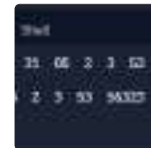
Module 7 Arrays Problems

Get introduced to arrays and solve problems using arrays in python.

Language:
Python

Platform:
Replit

6 Lessons & 20+ Projects



Rotate Array



Stock Buy Sell



Unlock Advance Python Developer Certificate





Data Science

Module 8

Welcome to Data Science

Learn about basic libraries of Python for Data Science like Numpy, pandas, matplotlib, and seaborn and plot graphs using them.

Language:
Python

Platform:
Replit and Colab

6 Lessons & 10+ Projects



Capstone
Project



Housing Rent
Prediction

Module 9

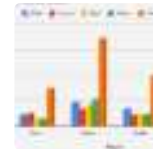
Data Analysis

Learn about the basics of analysis and basic concepts like tabs and ribbons, formatting numbers, and managing worksheets.

Language:
Python

Platform:
Spreadsheet

6 Lessons & 15+ Projects



Sales
Estimation



Visualize
the Data



Unlock Data Analyst Certificate

Module 10

SQL using python I

Learn about SQL, its syntax, and its commands.

Language:
Python

Platform:
Replit

6 Lessons & 15+ Projects



Statements



Joins

Module 11

SQL using python II

Learn about Advance features in SQL.

Language:
Python

Platform:
Colab

6 Lessons & 15+ Projects



Play with
Tables



Match the
Tables



Unlock SQL Developer Certificate





Data Science

Module 12

Data Visualization I

Learn how to import data and visualize it using various graphs like a line graph, bar graph, pictograph, histogram, area graph, and scatterplot.

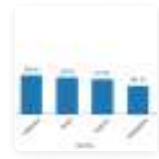
Language:
Python

Platform:
Colab

6 Lessons & 15+ Projects



Solve the Equation



Population Growth

Module 13

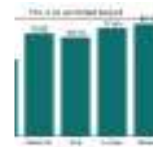
Data Visualization II

Learn to plot different types of advanced graphs.

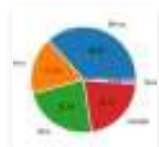
Language:
Python

Platform:
Colab

6 Lessons & 10+ Projects



Life Expectancy Survey



Population

Module 14

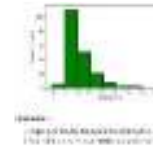
Statistics

Learn about various statistical concepts like mean, median, mode, and other operations in statistics, and also learn how to show them using graphs.

Language:
Python

Platform:
Colab

6 Lessons & 15+ Projects



IMDB Rating



Iris Data Survey



Unlock Data Scientist Certificate

Module 15

Probability

Learn about the concept of probability used in Data Science.

Language:
Python

Platform:
Replit

6 Lessons & 20+ Projects

```
step throat?
choice (3/3): 1
tested position?
```

Step Throat

```
red shirts: 3
blue shirts: 4
white shirts: 9
the second shirt
is blue:
the second shirt
```

Pick a Shirt



thinkab



Data Science

Module 16

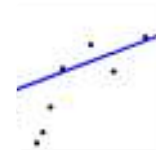
Machine Learning I

Get introduced to Machine Learning and types of ML. Learn types of data and data preprocessing.

Language:
Python

Platform:
Colab

6 Lessons & 15+ Projects



Regression Analysis



Output Classifier

Module 17

Machine Learning II

Learn about the classification algorithms and build your own recommendation engine.

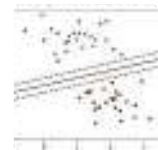
Language:
Python

Platform:
Colab

6 Lessons & 15+ Projects



Binary Classification



Maximum Margin Hyperlink



Unlock Capstone Project

Module 18

Machine Learning III

Understand and implement advanced Supervised ML algorithms for making future predictions.

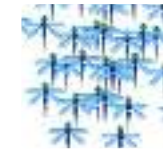
Language:
Python

Platform:
Colab

6 Lessons & 10+ Projects



Water Quality Prediction



K-nearest Neighbors

Module 19

Machine Learning IV

Understand and implement unsupervised ML algorithms for making future predictions.

Language:
Python

Platform:
Colab

6 Lessons & 10+ Projects



Clustering



Density Based Clustering



Data Science

Module 20 Deep Learning I

Learn about the basics of deep learning and get to know about Neural Networks.

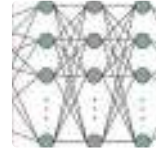
Language:
Python

Platform:
Colab

6 Lessons & 10+ Projects



Quick Draw



My Neural Network



Unlock Advance AI Programmer Certificate

Module 21 Deep Learning II

Learn about the Convolutional Neural Networks, Image classifier and digit recognizer using neural networks.

Language:
Python

Platform:
Colab

6 Lessons & 10+ Projects



Image Classifier



Digit Recognizer

Module 22 Deep Learning III

Understand the exciting implementation of the Open CV library in Python through various projects.

Language:
Python

Platform:
Colab

6 Lessons & 10+ Projects



Funny 3D mirrors



Drawing through OpenCV

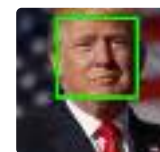
Module 23 Deep Learning IV

Understand the exciting implementation of Artificial Intelligence in the projects like chatbots.

Language:
Python

Platform:
Dialogflow and Colab

6 Lessons & 10+ Projects



Face Recognition



Lane Line Detection



Unlock Expert AI Programmer Certificate





Data Science

Module 24 Front-end Development

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

Language:
HTML and CSS

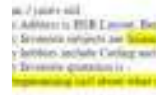
Platform:
Replit

8 Lessons & 25+ Projects



Media in
HTML

am Codingal



My Intro

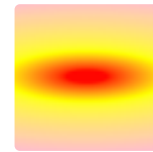
Module 25 Webpage Styling

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

Language:
HTML and CSS

Platform:
Replit

8 Lessons & 25+ Projects



Background
Effects



Positioning

Module 26 Web App Development

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

Language:
HTML and CSS

Platform:
Replit

8 Lessons & 20+ Projects



About
Section



Calculator



Unlock Frontend Developer Certificate

Module 27 Python Flask

Understand the concept of Flask in python, and make interactive apps using Flask.

Language:
Python

Platform:
Replit

6 Lessons & 25+ Projects



User
Application



Location Map

Module 28 Advance Flask Development

Learn about the complex functions and concepts in the flask.

Language:
Python

Platform:
Replit

6 Lessons & 25+ Projects



Shopping
Cart



Flask WTF



Unlock Backend Developer Certificate



thinkab



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.



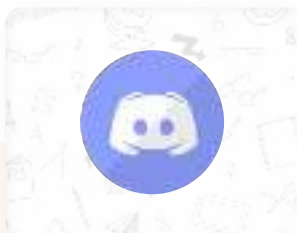
8. Lifetime access to resources

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

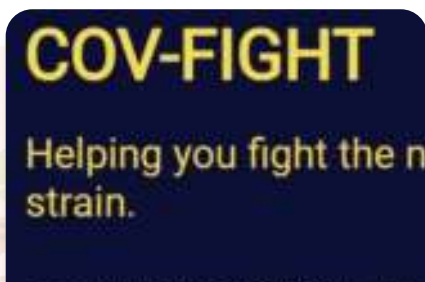
[View Project](#)



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

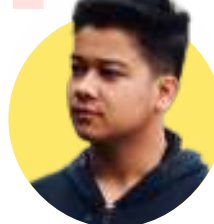


Razzaq Ahmed

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.





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

Y Combinator REBRIGHT
PARTNERS

Got questions?
Contact us
anytime.

Send us a message

 support@codingal.com