



Codingal

Where kids love coding

Grade 10

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



thankal



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



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



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.

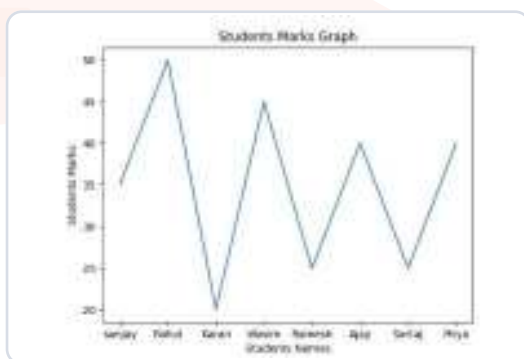
Coders must strengthen their algorithmic and computational thinking to write a line of code that works well and is bug-free. And what is a possible way of thinking at their core? Math.

```
Prime Number Check

Show files

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

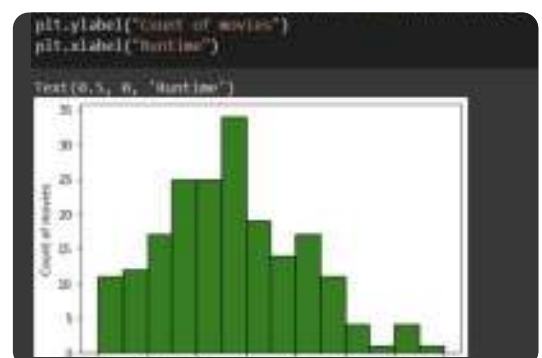
Prime Number Check



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. And this is where coding and Math go hand in hand.



IMDB Ratings Data Analysis



Creator of tomorrow - Your kid's learning journey

Sprite Developer
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.

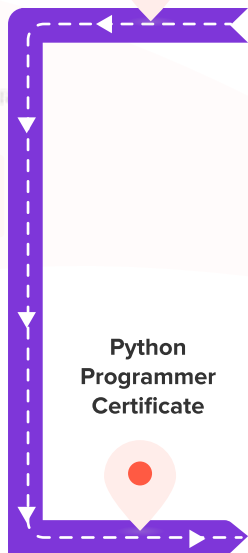
Animator
Certificate



Advance
Application
Developer
Certificate



AI Programmer
Certificate



Coding Prodigy

96 Classes
184+ Projects
96 Quizzes

A perfect course for kids who want to excel at coding and building complex games and applications.

Python
Programmer
Certificate



Coding Grandmaster

144 Classes
350+ Projects
144 Quizzes

A course for those who want to master the art of coding and create a better future through code.

Web Developer
Certificate



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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



Unlock Web Developer Certificate



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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 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

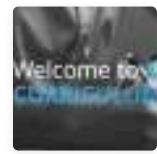
Platform:
Repl.it

6 Lessons & 25+ Projects

JavaScript String Methods



JS String Methods



Real-time Application

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 Methods



Search and Replace String

Module 6

Capstone Project

Create your own website using HTML, CSS and Javascript.

Language:
HTML CSS JS

Platform:
Repl.it

6 Lessons & 5+ Projects



Simple Calculator



Social Media



Unlock Frontend Developer Certificate

Module 7

Python Basics

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

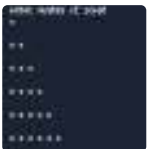
Language:
Python

Platform:
Repl.it

6 Lessons & 25+ Projects



Rainbow Spiral



Star Pattern

Module 8

Advanced Python

Learn about Python data structures and Object Oriented Programming.

Language:
Python

Platform:
Repl.it

6 Lessons & 25+ Projects



List to Dictionary



Polymorphism



Coding Prodigy- Overview (1)

A perfect course for kids who want to excel at Python programming and get introduced to the world of Data Science.

96 Classes
184+ Projects
96 Quizzes



Key learnings

- ✓ All Coding Champion learnings
- ✓ Basics of Data Science
- ✓ Advance Python
- ✓ SQL



Achievements

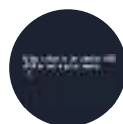
- ✓ Logic Building
- ✓ Critical Thinking
- ✓ Problem Solving Skills
- ✓ Capstone Project

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 9

Python Specialization

Get introduced to 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

Module 10

Data Structures - 1

Work on different Python problems to build strong Mathematical Logic.

Language:
Python

Platform:
Repl.it

6 Lessons & 20+ Projects



Strong
Arms



That's a
Fact

Module 11

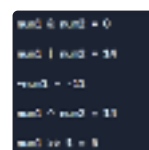
Data Structures - 2

Learn about bit-wise operations to use it to improve your code's efficiency.

Language:
Python

Platform:
Repl.it

6 Lessons & 20+ Projects



Implement
Bitwise



Power of 4



Unlock Advance Python Developer Certificate



Coding Prodigy- Overview (2)

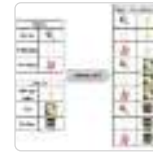
Module 12 SQL using python I

Learn about SQL, its syntax, and its commands.

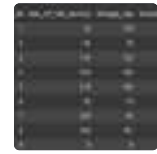
Language:
Python

Platform:
Repl.it

6 Lessons & 15+ Projects



Joins



Query
inside Query

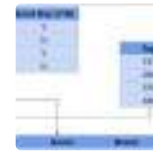
Module 13 SQL using python II

Learn about Advance features in SQL.

Language:
Python

Platform:
Repl.it

6 Lessons & 15+ Projects



Guess the
Database



Match the
Tables



SQL Developer Certificate

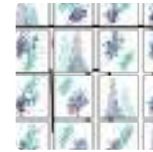
Module 14 Introduction to Data Science

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

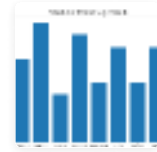
Language:
Data Science

Platform:
Google collab

6 Lessons & 10+ Projects



Penguin Data
Visualization
Project



Student Marks
Bar Plot

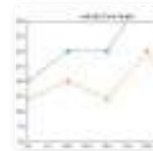
Module 15 Data Visualization

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

Language:
Python

Platform:
Google collab

6 Lessons & 10+ Projects



Velocity
Time Graph



Data
Cleaning

Module 16 Data Science Concepts - 1

Learn concepts of statistics and how to use them in Data Science.

Language:
Data Science

Platform:
Google collab

6 Lessons & 15+ Projects



Iris Data
Survey



Titanic
Survival EDA



Unlock Data Scientist Certificate



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Coding Grandmaster- Overview (1)

A course for those who want to master the art of coding from frontend to backend development.

144 Classes
350+ Projects
144 Quizzes



Key learnings

- ✓ All Coding Prodigy learnings +
- ✓ Data Science
- ✓ Flask Deployment
- ✓ Java Programming



Achievements

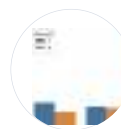
- ✓ Capstone project
- ✓ Advance coding concepts
- ✓ Analytical skills
- ✓ Deployment

Featured Projects



Movie Recommendation System

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



Titanic Survival Prediction

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

Module 17

Data Science Concepts - 2

Learn concepts of Probability and how to use them in Data Science.

Language:
Data Science

Platform:
Google collab

6 Lessons & 20+ Projects



Pickashirt



Puppies
Data
Sampling

Module 18

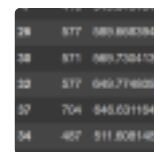
Machine Learning - 1

Learn about the basics of machine learning, its types and Regression.

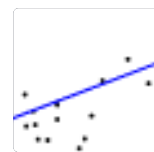
Language:
Python

Platform:
Google collab

6 Lessons & 10+ Projects



Multiple
Linear
Regression



Regression
Analysis

Module 19

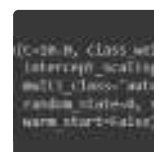
Machine Learning - 2

Learn about Classification and Recommendation Systems.

Language:
Python

Platform:
Google collab

6 Lessons & 10+ Projects



Logistic
Regression



Movie
Recommendation
System





Coding Grandmaster- Overview (2)

Module 20

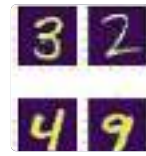
Deep Learning - 1

Get introduced with Deep Learning and Neural Networks.

Language:
Python

Platform:
Google collab

6 Lessons & 10+ Projects



Digit Recognizer



Image Classifier

Module 21

Deep Learning - 2

Learn how to work with Image data and build Image Classifiers.

Language:
Python

Platform:
Google collab

6 Lessons & 10+ Projects



ANN Implementation



Artificial Neural Network



Unlock Advance AI Programmer Certificate

Module 22

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 23

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 24

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



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

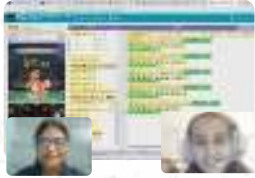
Show the world what you can do with a certificate for every amazing skill you master.



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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

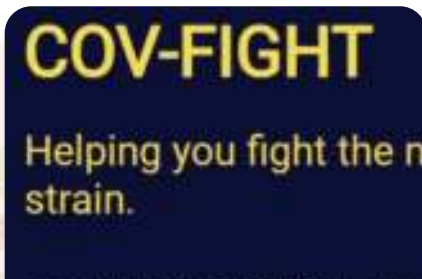
[View Project](#)



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



**Ashok
Kumar Jha**

Codingal Parent



My son is now an expert in web development, all thanks to the excellent teachers on Codingal.



**Tarun
Patidar**

Codingal Student



Codingal has helped me become an accomplished coder by making the learning process fun and interactive. Codingal teachers are very helpful and they always address my queries.



**Akshat
Agarwal**

Codingal Student



I have learnt to develop games and apps, thanks to Codingal.



**Pramod
Nandankar**

Codingal Parent



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



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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





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



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Where kids love coding

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