



Codingal

Codingal curriculum is tailored for K-12 children and complements their learnings at school by allowing them to use coding to develop a deeper understanding various subjects and concepts. This makes coding a learning-aid and makes the learning process fun and interactive.

Our curriculum is designed to inspire children to create through code. A practice that has been proven to develop a child's creativity, logical thinking and problem-solving skills.

Our curriculum combines the power of code with STEAM (Science, Technology, Engineering, Arts and Maths) education. This unique pedagogic approach encourages children to apply their learnings at school and their coding skills to solve real-world problems.

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Kids and parents love us



Codingal's demo class helped me develop a keen interest in coding. So I decided to learn app and web development. Coding is now super fun for me, and it has improved my thinking and logical skills.

Dishita Karkare

Grade 5 | Bengaluru, India



My journey with Codingal started a few weeks ago. My teacher is very nice and understanding. She even gives me assignments to help me understand the concepts. I'm really excited about learning more about coding with Codingal.

Abdul Hannan

Grade 3 | Nigeria



The teachers are friendly and my son is able to understand the concepts easily. In just three classes, he was able to create basic steps in a program used to make animations. I think Codingal can help him grow and understand how to progress in a field which is much-needed nowadays and will be even more so in the future.

Mr. Samar Shareef

Abuja Nigeria

What your kid will learn

Grade 9-10

20 classes

Rising Coding Star

An ideal course to help kids quickly grasp the basics of coding and start writing code using blocks.

60+ Activities
3 Quizzes ₹ **800**
per class

- ✓ Webpage development
- ✓ HTML basic concepts
- ✓ HTML elements
- ✓ HTML tags
- ✓ CSS
- ✓ CSS properties
- ✓ Embedding CSS in HTML
- ✓ Bootstrap

- 🏆 Rising Coding Star Certificate
- 🏆 Lifetime community access

44 classes

Coding Champion

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

100+ Activities
7 Quizzes ₹ **750**
per class

- ✓ **All Rising Coding Star learnings +**
- ✓ Website development using HTML
- ✓ CSS
- ✓ Git version control
- ✓ JavaScript basics
- ✓ Advanced JavaScript
- ✓ Web app development
- ✓ Hands-on projects using HTML

- 🏆 Coding Champion Certificate
- 🏆 Game development certificate
- 🏆 Lifetime community access

Most Popular

92 classes

Coding Prodigy

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

184+ Activities
15 Quizzes ₹ **700**
per class

- ✓ **All Coding Champion learnings +**
- ✓ Website development
- ✓ Node JS and SQL
- ✓ Python OOPs concepts
- ✓ Python file handling
- ✓ GUI using Python Tkinter
- ✓ Data structures, algorithms
- ✓ Data science introduction

- 🏆 Coding Prodigy Certificate
- 🏆 Game, app development certificate
- 🏆 Scholarships for top five performers
- 🏆 Lifetime community access

Most Valuable

152 classes

Coding Grandmaster

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

450+ Activities
25 Quizzes ₹ **650**
per class

- ✓ **All Coding Prodigy learnings +**
- ✓ Website development
- ✓ Git version Control
- ✓ NodeJS and SQL
- ✓ Advanced Python
- ✓ Advanced Java
- ✓ Machine, deep learning
- ✓ Image classifier

- 🏆 Coding Grandmaster Certificate
- 🏆 Python development certificate
- 🏆 AI game developer certificate
- 🏆 Scholarships for top five performers
- 🏆 Lifetime community access

Rising Coding Star

Classes

20

Activities

60+

Quizzes

3+

Skill level

Advanced

Age group

Grade 9-10

Price

₹ 800

per class



Key learnings

- HTMS
- CSS
- Bootstrap



Benefits

- Building Web Pages
- CSS Properties, Best Practices
- Full Bootstrap



Achievements

- Rising Coding Star Certificate
- Lifetime community access

Module	Theme	Topics Covered	Outcome
M1 (8 Classes)	Fundamentals of HTML	HTML and CSS syntax, HTML document structure, CSS selectors, properties, and values. Writing CSS, code commenting in HTML and CSS, building your first web page. Semantics of HTML, block and inline elements, nesting of elements, text elements, structure elements, hyperlinks, lists, image, video, audio elements, iframe elements, tables, forms, HTML best practices, and creating a basic multi-page website	Building Web Pages
M2 (6 Classes)	Fundamentals of CSS	Embedding CSS in HTML, comments in CSS, svg, web storage, cascading effect, specificity, layering selectors, colors. Lengths, typography, backgrounds and gradients. CSS resets, CSS best practices, the box model, positioning with floats, positioning with inline-blocks, transform	CSS Properties and Best Practices
M3 (6 Classes)	Bootstrap	Get started with Bootstrap containers, grid basics, typography, colors, badges, progress Bars, spinners, pagination, carousel, scrollspy, Bootstrap grid, grid system, stacked/horizontal, grid xsmall, grid small, grid medium, grid large, grid xlarge, grid examples	Full Bootstrap

Coding Champion

Classes

44

Activities

100+

Quizzes

7+

Skill level

Advanced


Age group

Grade 9-10

Price


₹750

per class




Key learnings

- Git
- Javascript
- HTML, CSS
- Bootstrap



Benefits

- Critical thinking
- Advanced concepts
- Structured codes
- Website development
- App development



Achievements

- Coding Champion Certificate
- Lifetime community access
- Internship opportunity

Modules	Themes	Topics Covered	Outcome
All Rising Coding Star modules +			
M4 (6 Classes)	Git - Introduction	Git, Terminal vs GUI, repo, staging, adding and committing, branches, merging, stash, fork.	In this module, students will learn about the version control system known as ‘Git’. They will learn about the difference between terminal and GUI Git. They will be introduced to repo, branches, merge, head, stash, fork commands.
M5 (6 Classes)	JavaScript - Introduction	Syntax guide and commenting, variables, value and type, operators, objects and properties, array properties and method, call stack, methods, loops and switches, functions, parameters and scope of functions	In this module, students will be introduced to JavaScript programming. Javascript will help them create animations for their websites and make their websites more interactive.
M6 (6 Classes)	JavaScript - Brief	Data types, keywords, conditional statements, while loops, map method, eval method, class, class inheritance, array sorting and iteration, type conversions, regular expression, error handling, arrow function, JSON, call back, async/await, promises, forms, APIs, prototypes, cookies.	In this module, students will take a deep dive into JavaScript programming and learn about the many features and functionalities of Javascript they can use to make websites engaging and interactive.
M7 (6 Classes)	Project on HTML, CSS and Bootstrap	Basic Web App Template: Guess the number, dice game, bank app, portfolio website, drum app, pizza app, simple calculator, shopping cart, etc.	Students will develop a complex app or website using all their learnings and skills in HTML, CSS and Bootstrap.

Coding Prodigy

Classes

92

Activities

184+

Quizzes

15+

Skill level

Advanced

Age group

Grade 9-10

Price

₹700

per class



Key learnings

- SQL
- Node.js
- Python - Basics
- Python - Advanced
- Python - Advanced



Benefits

- Conceptual clarity
- Analytical skills
- Confidence boost
- Course project
- Student project



Achievements

- Coding Prodigy Certificate
- Lifetime community access
- Scholarship opportunities
- Goodies

Modules	Themes	Topics Covered	Outcome
All Coding Champion modules +			
M8 (6 Classes)	SQL - Introduction	Intro to Node.js, modules in Node.js, HTTP module in Node.js, access other files from Node.js, SQL module in Node.js, database, connected to database from Node.js, important SQL from Node.js	In this module, students will learn about Node.js and the modules in Node.js. They'll also learn how to use the SQL module in Node.js.
M9 (6 Classes)	Python - Basics	Basics of Python with the help of different activities: data types, conditionals, loops, functions. Introduction to Python library turtle to create patterns and graphics	Students will learn about the Python programming language and its history, applications, concepts such as data types, conditionals, loops, and patterns using turtle.
M10 (6 Classes)	Python - Advanced	Data structures, classes, polymorphism, encapsulation, and object-oriented programming, and create various softwares using these concepts	Students will learn advanced topics of Python like data structures and Object-Oriented Programming concepts.
M11 (6 Classes)	Python - Specialization	File handling using Python, tkinter library to create GUI for a Python program	In this module, students will learn file handling in Python and create a Capstone project using all the learnings in Python.

Coding Prodigy

Modules	Themes	Topics Covered	Outcome
M12 (6 Classes)	Data structures and algorithms - I	Asymptotic notation, time and space, complexities, calculation of time complexity	In this module, students will learn about time and space complexity and its importance, and will learn related calculations.
M13 (6 Classes)	Data structures and algorithms - II	Linear data structures, array, list, queue, stack, LIFO, FIFO, applications of all linear data structures	In this module, students will learn about linear data structures in depth.
M14 (6 Classes)	Data science - Introduction	Introduction to data science, NumPy, Pandas, dataframe, Matplotlib, Seaborn	Students will learn about basic libraries in Python for data science including NumPy, pandas, matplotlib and seaborn. They will be able to plot graphs using these libraries.
M15 (6 Classes)	Visualization in data science - I	Visualization libraries to create line graph, bar graph, histogram, area graph, scatterplot, etc. to visualise data	Students will learn to import data and visualize the information using various types of graphs such as line graph, bar graph, histograms, area graphs, scatterplots, etc.

Coding Grandmaster

Classes
152

Activities
450+

Quizzes
25+

Skill level
Advanced

Age group
Grade 9-10

Price
₹ 650
per class



Key learnings

- Statistics
- Probability
- Machine learning



Benefits

- Conceptual clarity
- Analytical skills
- Confidence boost



Achievements

- Coding Grandmaster Certificate
- Lifetime community access
- Scholarship opportunities
- Goodies

Modules	Themes	Topics Covered	Outcome
All Coding Prodigy modules +			
M16 (6 Classes)	Statistics - I	Statistical measures: mean, median, mode, standard deviation, variance, summarizing different types of data	Students will learn about various statistical concepts like mean, median, mode and other operations in statistics. They will also learn how to visualize these measures through graphs.
M17 (6 Classes)	Probability - Introduction	Probability, odds ratio, independent and dependent events, mutually exclusive events, joint probability, conditional probability and Bayes' theorem	Students will learn concepts of probability, the major theorems of probability, and how these concepts are important in data science.
M18 (6 Classes)	Machine learning - I	Introduction to machine learning: supervised learning and unsupervised learning, simple linear regression and multiple-linear regression, gradient descent and cost function, accuracy metrics for regression	Students will learn about basics of machine learning, supervised and unsupervised learning, and other essential concepts in ML.
M19 (6 Classes)	Machine learning - II	Classifications: binary classification and multi class classification. logistic regression, accuracy metrics for classification, recommendation engine	Students will learn basic classification algorithms in machine learning and recommendation engines that are widely used in essential technologies.

Coding Grandmaster

Modules	Themes	Topics Covered	Outcome
M20 (6 Classes)	Deep learning - I	Intro to Artificial Intelligence, Sub domains of AI - (NLP, Computer Vision, Deep Learning), Deep learning and Neural Networks, Forward propagation and Backward Propagation, Activation function, ANN - intuition and implementation	Students will learn about basics of deep learning, and will get to know about neural network
M21 (6 Classes)	Deep learning - II	Convolutional Neural Networks for Image Classification - Digit Recognizer, Image Classifier	Students will learn about the concepts like CNN and Image Classifier.
M22 (6 Classes)	Python Flask	Introduction to Python Flask, Flask routing, Flask variable rules, Flask URL building, Flask HTTP methods, Flask templates, Flask static files, Flask request object, sending form data to template, Flask cookies, Flask session	Students will learn about Flask a micro web framework written in Python. They will learn about and use essential concepts and functionalities in Flask.
M23 (6 Classes)	Advanced Flask development	Flask redirect and errors, Flask messege flashing, Flask file uploading, Flask extension, Flask mail, Flask WTF, Flask SQLite, Flask SQLAlchemy, Flask Sijax, Flask deployment, Flask FastCGI	Students will learn about and use complex functions and concepts in Flask.

Coding Grandmaster

Modules	Themes	Topics Covered	Outcome
M24 (6 Classes)	Java - Basics	JVM (Java Virtual Machine) Architecture, data types and operators, control structures and arrays, OOPS, inheritance, access modifiers	Students will learn about “the language of possibilities” i.e. Java. They will find their answer to the most debated question: Is Java purely an Object Oriented Language? They will learn about data types and operators, loops and control statements. They will advance forward by learning about OOPS concepts.
M25 (6 Classes)	Java - Advanced	Encapsulation and polymorphism, exception handling, error vs exception, Java 8 features, generics and collections framework	Students will dive deeper into Java and learn about OOPS concepts such as encapsulation and polymorphism. They will learn to deal with various exceptions using try catch. They will be introduced to Java 8 features and the collections framework. They will then create a Capstone Project using all the Java concepts they’ve learned.

Is your child ready for the future?
Start their coding journey with Codingal

Got questions?
Contact us anytime.

Send us a message

✉ support@codingal.com

Call us

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