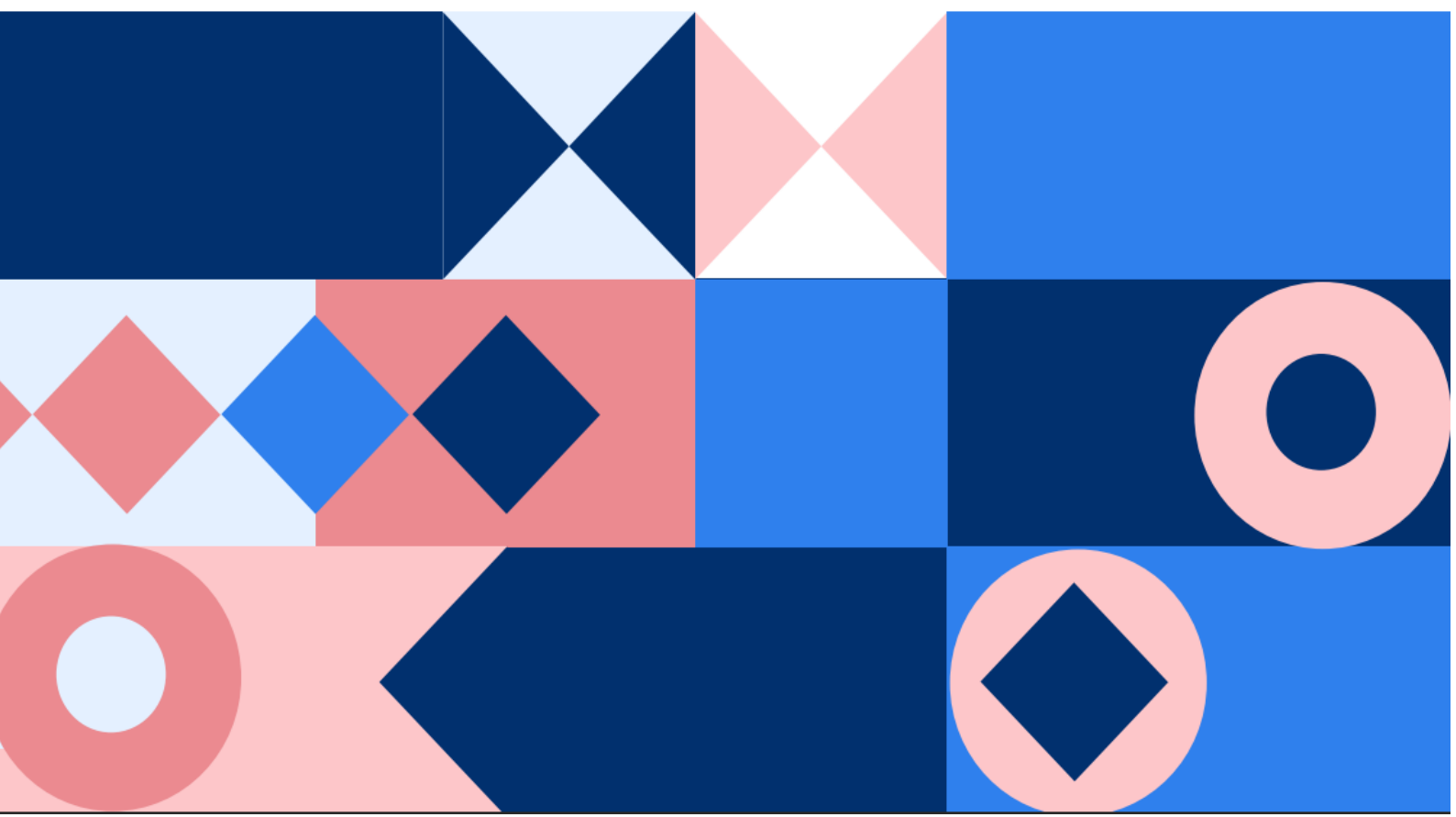


AccioSchool Curriculum





Module 1 Programming 101 & Aptitude

1

Intro to programming & Basic DSA
Quant + Verbal

Module 2 Fundamental Programming Constructs

2

Recursion, OOP concepts Verbal & Reasoning

Module 3 Data Structures & Algorithms

3

Linear DSA
Stacks, Queues, Hashing

Module 4 Frontend Engineering I

4

HTML & CSS
Javascript 0 to 1

Module 5 Frontend Engineering II

5

Static Frontend Programming & JS
key concepts

Module 6 Backend Engineering

6

Intro to REST APIs
Building backends using Node & Express



Extra edge for you through weekly intensive Doubt Solving Sessions, Topic-wise Revision Tests & Progress Tracking

Detailed Structure

Data Structures & Algorithms

PreCourse - Programming 101

- Variables, Loops & Conditionals
- Intro to Functions
- Intro to Arrays

Fundamental Programming Constructs

- Intro to Recursion
- Sorting & Searching Algorithms
- Understanding Object Oriented Programming

Linear Data Structures & Algorithms

- Stacks
- Queues
- Deques
- Hashing and problem-solving techniques
- Linked lists
- Java Working principles, Exception Handling.
- Java Collections Framework & wrapper classes
- Bit Manipulation
- OOP Deep dive

Frontend

HTML, CSS, intro to JavaScript

- HTML - Basic tags, Tables, forms, semantic HTML
- CSS - Core concepts, Common CSS properties, Intro to variables, Animations, responsiveness
- BootstrapJS - implementing CSS frameworks practically
- JS - Intro & DOM Manipulation,
- Let, Var, Const
- Arrays, Functions and Strings
- Array manipulation, ternary, rest & spread operators, common JS functions
- Objects & Object-Oriented Programming in JS, binding, prototypes
- ES6 concepts in JS, events in JS, Evolution of the web

Backend

- Intro to REST APIs
- Building backends using Node & Express

Logical Reasoning

- Square sitting arrangement
- Logical Inequalities
- Blood Relations
- Days based Puzzle

- Mirror Images
- Missing Number
- Odd one out
- Alphabet Series
- North – South / Circular Sitting Arrangement
- Classification of words
- Syllogisms
- Distance and Directions
- Venn Diagram
- Arithmetic Reasoning
- Stack Based Puzzle
- Ordering and Ranking
- Matrix coding and decoding

Verbal Learnings

- Reading Comprehension
- Error Location
- Active / Passive Voice
- Phrase Replacement
- Para - Jumbled Phrases
- Direct / Indirect Speech
- Single Filler
- Synonym
- Idioms
- Connecting Sentences

Numerical Ability

- Probability
- Permutation and Combination
- Profit and Loss
- Simple / Compound Interest
- Time and Distance
- Percentages
- Time and work
- Pipes and cistern
- Volumes
- Area
- Averages
- Geometry
- Number Problem
- Partnership
- LCM / HCF
- Ratio and Proportion
- Data interpretation
- Age
- Divisibility rules
- Simplification
- Boats and Streams