



## CAP-06 Curriculum

Updated automatically every 5 minutes

## Module I

Introduction to HTML
CSS Styles & selectors
CSS Combinators & Box models
Flex
Grid
Media queries
Project
Introduction to JS
Mathematical & comparison operators
Conditional statements
Logical Operators & Introduction to Loops
While & for loop
Nested Loops
Arrays
String
Objects
Functions
DOM
Projects
Window object
Promise
Client server Model & Async
Git

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## Module II

Introduction to React
Components, Props, List And Keys, Events, Conditional Rendering
State Management
useState Hook And API Requests
Component hierarchy and data flow between components
useEffect hook & Forms
Context API
Deployment
Projects
Node JS basics
HTTP basics
Express middlewares
Databases
Mongo
CARD
Mongoose
MVC
Relationships
Authentication
Full Stack CRUD - I
Full stack projects

*\*subject to change as per academic committee discretion*

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Intro to programming
Variables data types mathematical operators
Comparison operators
Conditional statements
Logical operators
Intro to loops - while loop
For loop
Understanding Problem Statements
Nested loops
List
String
Intro to functions
Functions - 2
Taking input in python
Intro to DSA
Brute force
Introduction to Multi-Dimensional lists
Introduction to Dictionary data structure
Introduction to Optimisation Techniques: Two-pointer technique
Introduction to Sliding Window
Mathematics for Programming
Introduction to Sorting Algorithm
Customized Sort
Projects and Presentations

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Freelancing Projects	End of Module I
Internship opportunities	End of Module II
Placement interview opportunities	End of Module III
CAP-ACE	Unlocks based on performance
<i>*subject to students performance,availability &amp; at discretion of academic committee</i>	

*Confidential*