



FullStack WEB

Placement Oriented Course on
Programming Language, Data Structures Algorithms, Frontend & Backend Web Development
with
Mock Tests & Interview Preparation

Available in

Online  &  Offline

EISYSTEMS TECHNOLOGIES

FF-112, Express Greens Plaza, Sector 1

Vaishali, Delhi NCR – Uttar Pradesh

India – 201010

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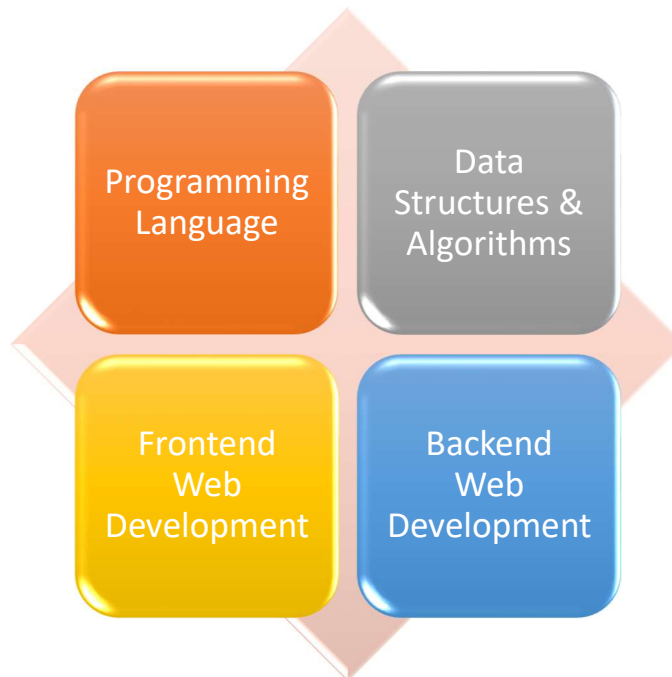
Why should you join this course?

Join this course if

1. You are a passed out / already working and planning to start your journey in IT sector.
2. You want to switch in IT sector especially in Web Development domain.
3. You are seeking a managerial position in your organisation in Web Development Domain.
4. You are in prefinal / final year and looking for placement in Web Development related roles.

What this course will cover?

This course will cover most of those topics which will be required as a skill at the time when you will be participating in placement drive, check infographic for your reference.



FullStackWEB Course at a glance

Requirements

We expect participant(s) to have

1. A laptop with Microsoft Windows configuration with minimum 8GB RAM.
2. Laptop Charger/ Adapter for charging purpose.
3. Internet Connectivity.
4. Smartphone (4G/5G) to attend online training sessions.

Post Training Deliverables

You will get all under mentioned deliverables

1. Online Training on select subjects by specialized trainer.
2. Mix of Online & Self Paced Trainings
3. Session Recordings & LMS Access
4. Robokwik CodeStudio Access
5. Mock Tests & Interview Preparation
6. Guaranteed Placement Assistance.

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Module 1

Programming Language

<p>Session 1 Introduction to Programming Introduction to Programming Language How to Install? Execution steps Interactive Shell User Interface or IDE Creating Your First Program</p> <p>Session 2 Memory Management and Garbage Collection Object Creation and Deletion Object Properties Data Types and Operations Numbers String Operations</p> <p>Session 3 List Tuple Dictionary Other Core Types</p> <p>Session 4 Statements and Syntax Assignments, Expressions and prints If tests and Syntax Rules While and For Loops</p> <p>Session 5 File Operations Opening a file Using Files Other File tools Check If File or Directory Exists COPY and PASTE File using shutil.copy() Rename File and Directory using os.rename() ZIP file with example</p>	<p>Session 6 Functions Function Definition and Call Function Scope Function Arguments</p> <p>Session 7 Modules and Packages Module Creations and Usage Types of package Package creation Importing packages</p> <p>Session 8 Classes Classes and Instances Classes method calls Class methods Instance methods Static methods</p> <p>Session 9 OOPs concept Abstraction Encapsulation Polymorphism Types of Polymorphism Inheritance Types of inheritance</p> <p>Session 10 Exception Handling Default Exception Handler Except Exceptions Raise an exception User defined exception</p> <p>Session 11 Accessing internet data & manipulating XML using Programming Language.</p>
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Module 2

Data Structures & Algorithms

<p>Session 1 Recursion Introduction to recursion Principle of mathematical induction Fibonacci numbers Recursion using arrays Recursion using strings Recursion using 2D arrays</p> <p>Session 2 Time & Space Complexity Order complexity analysis Theoretical complexity analysis Time complexity analysis of searching and recursive algorithms Theoretical space complexity Space complexity analysis of merge sort</p> <p>Session 3 Backtracking Introduction to Backtracking Object Oriented Programming</p> <p>Session 4 Introduction to Linear Data Structures Array Stack Queue Linked List</p> <p>Introduction to Non Linear Data Structures Tree Graph Priority Queues</p> <p>Session 5 Array Array as a concept Indexing & Length Implementation of Array using Programming Language.</p>	<p>Session 6 Stack Stack as a concept PUSH & POP Implementation of Stack using Programming Language.</p> <p>Session 7 Queues Queue as a concept Implementation of Queue using Programming Language.</p> <p>Session 8 Linked Lists Linked List as a concept Inserting Node in Linked List Deleting Node from Linked List Merging of Linked Lists Reversing of Linked Lists</p> <p>Session 9 Trees Trees as a concept Making a Tree Node Class Taking a tree as Input Printing Tree Traversals Destructor for tree node class</p> <p>Session 10 Binary Trees Introduction to Binary Trees Taking a binary tree as input and printing Binary Tree traversals Diameter of binary tree</p> <p>Session 11 Binary Search Trees Introduction to Binary Search Trees Searching a node in BST BST class Inserting and Deleting nodes in BST Types of balanced BSTs</p>
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<p>Session 12 Priority Queues Introduction to Priority Queues Ways to implement Priority Queues Introduction to Heaps Insert and Delete operations in Heaps Implementing Priority Queues</p> <p>Session 13 Hashmaps Introduction to Hashmaps Inbuilt Hashmap Hash functions Collision handling Load Factor Rehashing</p> <p>Session 14 Tries Introduction to Tries Making a Trie Node class Insert Search and Remove operation Types of Tries Huffman Coding</p> <p>Session 15 Graphs Introduction to Graphs Graph Terminology Graph implementation Graph Traversals (DFS and BFS) Weighted and Directed Graphs Minimum Spanning Trees Cycle Detection in Graphs</p>	<p>Session 16 Searching Linear Search Binary Search Interpolation Search</p> <p>Session 17 Sorting Bubble Sort Insertion Sort Selection Sort Heap Sort</p> <p>Session 18 Design Techniques & Strategies Dynamic Programming The Fibonacci Series Divide & Conquer Greedy Algorithms</p>
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Module 3 / Submodule 3.1


HTML & CSS with Bootstrap

<p>Session 1 Internet & Websites Session What is Internet? What is WWW? What is Webpage? What is a Website? Types of Website</p> <p>Session 2 Understand HTML Fundamentals HTML Metatags Keywords Head, Body, Footer Closing tags & Commonly used symbols.</p> <p>Session 3 Understand CSS Fundamentals Analyze the impact of using Inline Styles Internal Style Sheets External Style Sheets Construct & Analyze rule sets Valid syntax for the CSS rule set; selectors including class, id, elements and pseudo-class</p> <p>Session 4 Structure Documents using HTML Table Tags h1-h6 p br div span li Semantic Tags Header Footer Summary etc.</p>	<p>Session 5 Structure Documents using HTML -2 Markup that implements navigation Target Bookmark Image Link Hyperlink Folder Hierarchies Form Elements Form Attributes: action; method; submission methods input types & restrictions buttons</p> <p>Session 6 Present Multimedia using HTML img & picture elements & their attributes. Videos & simple iframe implementation. Examples & Codes implementing multimedia</p> <p>Session 7 Style Web Pages using CSS Position Content Positioning, including float, relative, absolute, max-width Overflow height, width & align etc.</p> <p>Format Text Font-family, color, font-style, font-size, link colors Text formatting & decoration. Background & Borders Border-color & style Border width & colors</p> <p>Session 8 Introduction to Bootstrap Syntax of Bootstrap Introduction to Container & Container Fluids Connectivity of Bootstrap</p>
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<p>Session 9 Domain & Hosting Session Domain & Domain Names WHOIS Lookup Domain & Anti Domain Registration Hosting of website</p> <p>Session 10 Webpage/Website Uploading Domain Hosting cPanel & some of its important sections. Error Page Configuration Visiting webpages live & watch through Google Analytics</p>	<p>Session 11 Search Engine Optimization(SEO) sitemap meta keywords & description favicon</p> <p>You will be working on</p> 
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Module 3 / Submodule 3.2

JavaScript

<p>Session 1 Introduction Implementation HTML Tags in Javascript Comments Variables Variables (Let & Const)</p> <p>Session 2 Data Types Arithmetic Operators Assignment Operators JS with Google Chrome Console Comparison Operators</p> <p>Session 3 If Statement Logical Operators If Else Statement If Else If Statement Conditional Ternary Operator Switch Case</p> <p>Session 4 Alert Box Confirm Box Prompt Box</p>	<p>Session 5 Functions Functions with Parameters Functions with Return Value Global & Local Variable Events</p> <p>Session 6 While Loop Do While Loop For Loop Break & Continue Statement Even & Odd with Loops Nested Loop JavaScript Nested Loop - II</p> <p>Session 7 Arrays Create Arrays Method - II Multidimensional Arrays Modify & Delete Array Array Sort & Reverse Array Pop & Push Array Shift & Unshift Array Concat & Join Array Slice & Splice</p>
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<p>Session 8 isArray Array index Array Includes Array Some & Every Array find & findIndex Array Filter Array Methods</p> <p>Session 9 JS for Each Loop Objects Objects - II Array of Objects Const Variable with Array & Objects For in Loop Map Method</p> <p>Session 10 String Methods Number Methods Math Methods Date Methods</p> <p>Session 11 DOM Introduction DOM Targeting Methods DOM Get & Set Value Methods DOM querySelectors DOM CSS Styling Methods</p>	<p>Session 12 addEventListener Method classList Methods parent Method Children Methods firstChild & lastChild Method nextSibling & prevSibling Method create & TextNode appendChild & insertBefore insert replaceChild & removeChild cloneNode Contains isEqualNode</p> <p>Session 13 JS Forms Form Events Form Events - II</p> <p>Session 14 JS Effects Interval Timeout</p> <p>You will be working on</p> <p> JavaScript</p>
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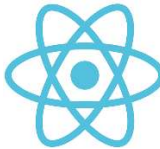

Module 3 / Submodule 3.3

ReactJS

<p>Session 1 Home Setup Getting Started ES6 Render HTML JSX Components</p> <p>Session 2 Class Props Events Conditional Lists</p>	<p>Session 3 Forms Router Memo CSS Styling</p> <p>Session 4 Hooks What is a Hook? useState Hook useEffect Hook useContext useRef useReducer useCallback useMemo</p>
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Module 3 / Submodule 3.4

NodeJS & MongoDB

<p>Session 1 NodeJS Introduction to NodeJS Modules Creation & Loading of Modules Path Module OS Module File System Module</p> <p>Session 2 Database File Based Storage System Introduction to Database Management System DBMS Classification Relational Database Management System Non Relational Database Management System</p>	<p>Session 3 MongoDB Schemas Models Comparing Query Operators Logical Query Operators Regular Expressions Counting Pagination</p> <p>You will be working on</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="text-align: center;"> <p>React JS</p> </div> <div style="margin-left: 20px;">  <p>mongo DB</p> </div> </div>
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Final Project

Note

Eisystems Technologies reserves complete right to alter/modify above mentioned course by deleting or adding sessions in it at the time of delivery of training and attendee will not be having any issue in it as this modification/alteration can be done without any prior notification to attendee/student. Programming Language referred above means all tasks related to programming will be implemented in Python and few sessions mentioned in syllabus will be delivered in recorded video / self paced format. This course is a bundled course so there may be a difference between starting of Data Structures module and ending of previously delivered module and it may go upto 6 weeks.

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