PYTHON FULL STACK COURSE

Language: Python

Duration: 60 hours (approx.)

Unit		Content		
I.	An Introduction to Python	 A Brief History of Python, Python Versions, Installing Python, Environment Variables IDLE, Editing Python Files Python Basic Syntax, Comments The format Method Numeric Data Types Conversion Functions Simple Output/Input, The % Method The print Function Conditional Statements and Logical Operator The for Loop The while Loop break and continue 		
II.	Python Collections	 Lists Tuples Sets Dictionaries Sorting Lists and Dictionaries Copying Collections 		
III.	Functions, Modules, Comprehensions	 Defining Your Own Functions Parameters Function Documentation Keyword and Optional Parameters Passing Collections to a Function Variable Number of Arguments Scope 		

	 Passing Functions to a Function Lambda, Map, Filter, Reduce Modules, Standard Modules - sys, math, time, The dir Function List Comprehensions, Nested List Comprehensions Dictionary Comprehensions Specialized Sorts
IV. Exception Handling, Regular Expressions, Class objects	 The Exception Handling Exception Hierarchy, Handling Multiple Exceptions, raise & assert Access Modes, Writing Data to a File, Reading Data From a File, Additional File Methods Classes in Python Creating Classes Class Variables, Inheritance, Polymorphism Simple Character Matches Special Characters Quantifiers The Dot Character Greedy Matches Grouping, Matching at Beginning or End Match Objects
V. An overview of Libraries in Python	 Numpy Pandas Matplotlib PySpark Fast API Beautiful Soup
VI. Framework	• Django

Language: MS-SQL Duration: 20 hours (approx.)

Unit	Content		
I. Introduction to SQL	 What is SQL and MSSQL DBMS vs. RDBMS Installation of SQL Sever SQL Data types Comments Constraints 		
II. DDL and DML Commands and Operations	 Create Database Drop Database Create Table Drop Table Truncate Alter Table Select Insert Update Delete 		
III. Diving into SQL	 Aggregate Functions SQL Clauses- Where Having Group by Order by Union Union Union all SQL joins Database Designing Stored Procedures Indexing 		

Language: HTML/CSS
Duration: 10 hours (approx.)

Unit	Content
I. Introduction HTML, Basi html tags	- IITMI IITMI 5
II. Diving into HTML	 Images Hyperlink div and span tags Table Input tags Select, Textarea Button Forms Header, Footer, Main
III. Introduction CSS	 What is CSS? Difference between inline, internal and external CSS Style Tag, Link Tag Types of Selectors Comments
IV. Diving into (CSS color CSS background CSS height / width CSS box model CSS border CSS fonts CSS display CSS position

Language: JavaScript

Duration: 20 hours (approx.)

Unit	Content			
I. Introduction to JS	 JavaScript introduction Internal JS vs. External JS Difference between let, var and const JS Operators, Datatypes Prompt and Alert Array Objects 			
II. Core Concepts of JS	 Conditional Statements Loops Functions Array Methods Map, Filter, Reduce 			
III. JavaScript DOM	DOM ManipulationJS Events			
IV. Advanced JS	PromisesFetch APIAsync/AwaitES6			