

# FULL STACK COURSE( 100+ Hours )

Tech-Stack	TOPIC	SUB TOPIC	SESSION DURATION
	Course Orientation	Industry Details, Full Stack Explanation, DETAILED ANALYSIS OF - TechStacks, Front-End, Back-End, Data Storage; Functionality of PYTHON, PYTHON TOOLS and GUI, Explanation of API and detailed Analysis, Pathway of the Course, Importance of Projects and detailed Pathway of Project.	1 Hour
	logic building	Basic Functionality of Python,Python Syntax,Application Base	1.5 Hours
	Problem Solving Questions -1	Pattern Printing Understanding and features of for loop Integer	1.5 Hours
	Problem Solving Questions - 2	Details of Pattern printing.Pattern of integers and String.	1.5 Hours
	Introduction to Data Structures	Introduction to DataTypes and Data Struture.LISTTUPLESSET	0.5 Hours
	Lists Comprehension	Introduction to LISTSList Comprehension,List Manipulation,L	0.5 Hours
CORE PYTHON	Data Structures (Sets ,Dictionaries and Tuples)	Introduction to fuctionality of :-SETDICTIONARYTUPLE	1.5 Hours

Functions in Python	Introduction to Functions:- Inheritance,Classes and Objects.	1 Hour
Concepts of OOPS	Encapsulation:- Public and Private; PolymorphismAbstraction	1.5 Hours
File Management	Inrtoduction to File System;Connection to filesFile operations	1 Hour
Exception Handling	INTRODUCTION Exception handling Error handling In python	0.5 Hours
Creating GUI	Explanation of Graphic User InterfaceCreating GUITkinter Exp	0.5 Hours
Creating GUI using Tkinter Package	Further Explanation of GUI and TkinterFlowchart of UI(User In	1.5 Hours

## APPLICATION BUILDING USING PYTHON

Menu Driven Inventory Management System	Menu Driven Inventory Management SystemDisplaying Menul	1 Hour
Projects in an Hour	Multi-Language TranslatorPassword GeneratorQR GeneratorF	1 Hour

## Project Based Learning

Encryption App using Python	Encryption App:-Secret Messaging Application between 2 Users	1 Hour
Tkinter Screen Design	Assignment 1: Screen Designing Using Tkinter;Practice of Frontend	Assignment
Python Database Connectivity	Python Database Connectivity:-Introduction to SQLiteConnectivity	1 Hour
Crud App using Python	CRUD Operations:- CreateReadUpdateDelete	0.5 Hours
App1: Calculator	Assignment: Calculator App;Mathematical CalculationsFrontend	Assignment
App2: My Diary	Assignment: My Diary;User AuthenticationData Updation	Assignment
CRUD on Contact	Contact Management Application:-Handling of DuplicatesIndividual	Assignment
Profile Application	Profile Application Connected to Database:-Handling Empty Input	0.5 Hours

## WEB DEVELOPMENT FULL STACK

HTML Basics	HTML:-HTML Basics: Structure, Tags, and AttributesConnectivity	2 Hours
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# HTML

HTML Tables and Forms	HTML Tables and FormsAttributes of HTML Tables and Forms	2 Hours
HTML Media	HTML Media:-Adding Videos, Images, and AudioMedia Styles	2 hours
HTML Backgrounds	HTML Backgrounds:-Backgrounds Using CSS: Colors, Gradi	2 Hours
HTML Template	HTML Templates:-Template DefinitionJavaScript for Dynamic	2 Hours
HTML Transitions	HTML Transitions:-CSS AnimationsPage, Tables, and Forms A	2 Hours
HTML Positions	HTML Positioning:-Relative, Absolute, Fixed, and Sticky Posit	2 Hours
HTML Javascript	Introduction to JavaScript:-Inline JavaScriptExternal JavaScri	2 Hours
HTML Loops	HTML Loops:-Explanation of Loops Using JavaScript	2 Hours
HTML Javascript Object Notation	JavaScript Object Notation (JSON):-Data RepresentationInteg	2 Hours
HTML Javascript DOM	JavaScript DOM Manipulation:-User InputData Manipulation	2 Hours

JavaScript	Javascript Functions	Functions, Anonymous Functions, String methods, Arrays, Basic for Loop Array ForEach Array Filters	2 HOURS
	Javascript Data Types and Loops	Advance Array Methods, Callback Functions, Date Object, JSON, IF-Else, Advance Loops, Switch, timeOut, setInterval, SetTimeout	2 HOURS
	Javascript Exceptional Handling and DOM	try catch, DOM, Events, RegEx, JS Math, Random, JS Class and Object, JS Collections	2 HOURS
NodeJS	NodeJS	JS Async, Promise, Window Object, Node JS Intro, Node Modules, Nodejs-userinpt	2 HOURS
	File Handling in NodeJS	http, URL, File, NPM intro, Events, File-Upload, Understanding NodeJS Docs	2 HOURS

MYSQL	MySQL	MySQL Intro, syntaxes, symple CRUDS, JOINS, Views	2 HOURS
	MySQL Functions	inbuilt functions, stored functions, foreign key constraints, Pagination	2 HOURS
Express-JS	Express JS	Express JS intro, HTTP methods, Routes, SSR and EJS	2 HOURS
	Middleware	Sessions, Cors, DB Connect	2 HOURS
React-JS	React Framework	React intro, using web-cdn, components, props	2 HOURS
	React-JS Ecosystem	React using Node-JS, Router,	2 HOURS
	React-JS Feature	React Hooks	2 HOURS

Mentorship sessions and Profile Building Sessions		
Python Mentorship Session -1	Doubt Solving sessions regarding recorded Lectures	1 Hour
Python Mentorship Session -2	Doubt Solving sessions regarding recorded Lectures	1 Hour
Python Mentorship Session -3	Doubt Solving sessions regarding recorded Lectures	1 Hour
Fullstack Development Mentorship Session	Doubt Solving sessions regarding recorded Lectures	1 Hour
Fullstack Development Mentorship Session	Doubt Solving sessions regarding recorded Lectures	1 Hour
Fullstack Development Mentorship Session	Doubt Solving sessions regarding recorded Lectures	1 Hour
Profile and Resume Building , LinkedIn		
Profile Boosting	Tips and guidance to improve profile	1 Hour
	Things and guidance to be ready with the things before going for the interview , How to Host website	
Github sessions and Interview Guidance	using github , How to Store the projects in github	1 Hour