

PYTHON FULL STACK

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This document serves as the module for the Python Fullstack course, encompassing the topics taught at CbTech. Please review and confirm the completion status of all topics. Additionally, kindly provide remarks for topics covered by your faculty.

MONTH-1		
TOPIC	THEORY	PRACTICAL
CORE PYTHON		
Introduction to Python		
Installing PyCharm/Vs code	CH	
Mathematical Operations in Python		
Arithmetic operators		
Assignment operators		
Comparison operators		
Logical operators		
Identity operators		
Membership operators		
Conditional Statements		
• Looping	ah	
• Control Sta <mark>te</mark> ments		
Python Primitive Data Types		
PYTHON NON-PRIMITIVE DATA TYPES		
List • Access Items		
Change Item Value		

• Append Items • Remove List Items • Loop Lists • List Comprehension • Sort Lists • Copy Lists • Join Lists • List Methods **Tuples** Access Tuple **Update Tuples Unpack Tuples** Loop Tuples Join Tuples Tuple Methods **Sets** Access Set Items Add Set Items Remove Set Items Loop Sets Join Sets Set Methods **Dictionary** Accessing Items Change Values

Adding Items	
Removing Items	
Loop Dictionaries	
Copy Dictionaries	
Nested Dictionaries	
Dictionary Methods	
CRITE	TH.
PYTHON FUNCTIONS • Creating a Function	
Calling a function	
Required Arguments	
Default Arguments	
Keyword Arguments	
Arbitrary Arguments	
Arbitrary keyword Arguments	
Return types from Functions	
OTHER BUILT-IN FUNCTIONS • Lambda Functions • Map • Filter	
• Reduce	
Date Functions	
Math and Random Functions	

MONTH 2		
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MODULES & PACKAGES • Modules		
• Import modules		
Package creation		
FILE HANDLING	LII	
Python File Open		
Working in Read mode		
• Read a file using the with statement		
Read certain number of character		
Readline and readlines		
• Creating a File using the write()		
• Write with()		
Working of Append Mode		
EXCEPTION HANDLINGUse of exception handling		
Types of exceptions in Python		
• Examp <mark>le</mark>	n	
Raise exception and Example		
PYTHON GUI-TKINTER • Button in Tkinter		
Add style to the Tkinter button		
Add style to the Tkinter button		

Add style to the Tkinter button Canvas Widget Menu Bar Scroll Bar Form Labels – radio, checkbox, List Box Message Box Top-level widget Create a Register Form And store into Database **OOPS CONCEPTS** OOPS Concepts Classes and Objects Inheritance Polymorphism Scope Encapsulation **Abstract Classes** Interfaces

MONTH 3				
TOPIC		THEORY	PRACTICAL	
FRONT	END TECHNOLOGIES			
HTML	HTML Elements			
•				
•	HTML Attributes			
•	HTML Headings			
•	HTML Paragraphs			
•	HTML Text Formatting			
•	HTML Images			
•	Block & Inline Elements			
•	Divisions			
•	Class, Id			
•	HTML Layout			
•	HTML Forms			
•	HTML Lists			
•	HTML Link			
•	HTML Table			
	co te	C		
CSS	CCC			
•	CSS syntax			
•	Type of Css			
•	CSS Selectors			
•	CSS Colors			
•	CSS Backgrounds			

CSS Borders **CSS Margins** display Property position Property Layout - Overflow float and clear **CSS** Combinators Pseudo-classes Pseudo-elements Web Page design using HTML and CSS **JAVASCRIPT** JavaScript Introduction JavaScript Display Possibilities JavaScript Statements, syntax Js const,var,let Js data types JavaScript Functions JavaScript Objects JavaScript Events Js Strings, Numbers, Array Js date Js if else, switch, loop JS RegExp JS Functions **Function Parameters**

- Invocation
- Closures
- JavaScript html dom
- Form Validation

Calculator Simple js project

JQUERY

- Introduction
- Syntax
- jQuery Selectors
- jQuery Event Methods
- jQuery Effects Hide and Show
- Effects Fading
- Effects Sliding
- Effects Animation
- Stop Animations
- Callback Functions
- Chaining

BOOTSTRAP

- Introduction of Bootstrap
- Syntax of Bootstrap
- Container and Container-fluid
- Jumbotron
- Button
- Grid

•	Table			
•	Form			
•	Alert			
	Badge and label			
•	Pagination			
•	Image			
•	Carousel			
•	Progress Bar			
•	List Group			
•	Dropdown			
•	Navbar			
•	Bootstrap Colors			
•	Display Property			
•	Typography			
E	eb page design using Bootstrap dit and use free templates it Introduction and Push code into Git			
MONTH 3				
TOPIC		THEORY	PRACTICAL	
SQL ·	DDL Commands DML Commands DQL Commands Primary Key	ch		
•	Foreign Key			

Order By

Group By

JOINS

DJANGO Web Site Management Migrations **Database Connectivity** Model Views Templates in Django **URL** Configuration Django Filters Django Templates Integration Relation Models Extend Tag **Crispy Forms** Login /Registration with Django CRUD with Django Customized Login/Registration with Django Class views and Function views Ajax Project Email Send Django Sessions in Django

SAMPLE PROJECT

- TO DO Application
- Templates Project
- Photo Gallery
- Hospital Website Mini Project
- E-Commerce Website
- Host Website In Python anywhere
- Blog Application

MONTH 4

MAIN PROJECT

I hereby acknowledge that all the above topics have been covered by my faculty during my learning of the Python Full Stack course at Cbtech.

Name: ANAND MOHAN A M

Signature:

Date: 30/7/2024