**INTRODUCTION TO PYTHON**

**PYTHON FUNCTIONS**

**MODULES**

**STRINGS**

**SEQUENCES**

**FILES**

**OOPs**

**EXCEPTION HANDLING**

**TKinter**

**MULTI THREADING**

**NETWORKING SOCKET PROGRAMMING**

**REGULAR EXPRESSION**

**UNIT TESTING**

**DBMS**

RDBMS

Normalization

SQL Queries

Database Access : MySql Queries

MySql – Python connection

**SQLite3**

**HTML5**

Introduction to web HTML

HTML basics

Attributes , Heading ,

Paragraphs , Formatting , Color ,

List , Table ,

Form , Form Input

**CSS**

CSS Selectors

Properties , Inline , Internal and External Style Sheets

Box Model

**JAVASCRIPT**

Variables , Operators , Object , Array

Data types , Null , Undefined

Control Statements , Functions

Regular expressions

Popup Boxes

Exception Handling (Try , Catch , Throw)

Form Submission using JavaScript

Form validation using JavaScript

**JQUERY**

Introduction to jQuery

jQuery effects

jQuery Selectors

jQuery callback , chaining

**BOOTSTRAP**

what-is-bootstrap

Container , Container Fluid

Col-xx-xx , Rows

Jumbotron , Button , Table

Forms , Form Input

Navbar

**WEB FRAMEWORK**

**DJANGO**

Introduction to Django

Basics

Overview

Environment

Creating a Project

Apps Lifecycle

Admin Interface

Creating Views

URL Mapping

Template System

Models

Apache Setup

Cookies Handling

Sessions

Page Redirect

Sending E-mails

Generic Views

Form Processing

File Uploading Django – AJAX

**WEB SCRAPING**

Introduction to Web scraping

Types of Web scraping

Web scraping Using BeautifulSoup

**ANGULAR**

Introduction ES6

Let, Const, Var

Hoisting, Function hoisting, Variable

Environment Setup

Installing Node , Angular

Introduction Angular

Project Setup

Components , Module

String interpolation , Data Binding , Event Binding , Two way

binding

Templates

Directives , ngIf , ngFor

Pipes , Custom pipes

Routing

Forms , Model form , Template form

Services , HttpService

Working with API

CRUD operations using API

**DEBUGGING**

Debugging Python Project

**WEB HOSTING &CLOUD COMPUTING**

WEB HOSTING : Introduction to web hosting , WEB SERVERS,

Hosting Types,domain name, FTP client(FileZilla)

CLOUD COMPUTING : Introduction to cloud computing, SaaS,

PaaS, IaaS

**WEB SECURITY &SEO**

Data Validation

Sql Injections

Cross Site Scripting

On Site Optimization basic

Coding best practices

Title tag Optimization

Keywords

Meta Tag Optimization