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### About NIDI:

Established in the year 2011, National Institute of Digital India (NIDI) is a division of Jagriti Navdisha Foundation, a registered nonprofit society Act XXI of 1860 from Govt. of NCT Delhi, which has been in existence with extensive experience in providing computer skills through our courses and training programs.

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# Python with Web Development

*Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.*

## Training Syllabus: 3 Months

### Python programming

- Python introduction
- Python basics and program flow
- Functions & Modules
- Exceptions
- File Handling
- Classes in Python
- Regular Expressions
- Data Structures
- Thread in python
- Network programming in python
- Python with MySQL database



## Database (MySQL)

- Relational Database Concept and technology
- Web Database Design
- Web Database Architecture
- Creating a MySQL Database
- Creating Database Tables
- Column Data Types
- Implementing Insert/Delete/Update and select Query
- Aggregate Functions
- Having and Group by Clause
- Joining Table
- Implementing Primary key, Unique Key, Composite key, foreign key, default constraint etc.
- Joining Table
- Dropping Tables and Databases
- Introduction to Phpmyadmin

## HTML & HTML 5

- Introduction To HTML
- Structure of HTML
- Attributes & Values
- Comments , Header Tags
- Image Tag
- Link Tags (Text & Image)
- Marquee Tag
- List Tag (Ordered & Unordered)
- Table Tag
- Form Tags
- Audio ,Video Tags
- About Iframe
- Embedding of Google Maps ,You tube videos
- BlockLevel and Inline Elements
- DIV Tag
- Header , Footer , Nav
- Section ,Article ,Aside
- New Form Elements

## CSS

- Document Testing
- About CSS Selectors
- About CSS Properties
- Background Properties
- Box Properties
- Border Properties
- Positioning Properties
- CSS Menu Design
- CSS Animation

**An Overview of Mobile Responsive Design using Bootstrap CSS.**

## JavaScript

- Introduction to JavaScript
- Variable , Operators , Conditions
- Looping and Array
- Introduction to functions
- Popup Boxes (Alert , Confirm , Prompt)
- Introduction to functions
- Form Handling

- DOM Manipulation
- Pre- defined functions
- Introduction to Objects
- What is property and methods
- String , Math , Navigator , Date ,Array , Window Objects
- Introductions to object based technology
- Class , object , property , inheritance
- Client Side Validation (Regular Expression)

**An overview of Django (A web development framework in python)**

**Project:**

Creating a Dynamic Web Application

**Advance topics, mandatory for industry purpose.**

- **Web Hosting**
- **Deployment**  
Project deployment on live server.