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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.

Contact Us:

Divesh Sharma

Contact No.: 8178585732, 8750498075

Email: divesh@nidi.org.in

Website: www.nidi.co.in

Regd. Office: I-112/5, Hari Nagar Extn., Badarpur, New Delhi-110044



python
Programming

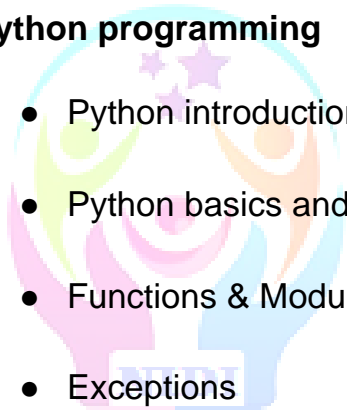
Python with Web Development

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: 6th 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
- Socket/Network programming in python
- Python with MySQL database



TKinter (Desktop App development)

Writing GUI apps in TKinter.

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 Phpmysqladmin

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, YouTube videos
- Block Level 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



Bootstrap for responsive design

- Introduction to Responsive Design
- Introduction to Bootstrap
- Bootstrap Grid System
- Grid Classes
- Equal Columns, Unequal Columns
- Layout Creation

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)

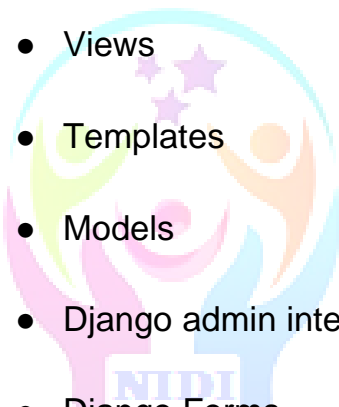
jQuery introduction

- jQuery Selectors, events, DOM, animations

- jQuery accordions, carousel, tab
- jQuery conflict
- Ajax Implementation
- CRUD Operation with AJAX

Django (A web development framework in python)

- Django introduction
- MVC (Model View Controller)
- Views
- Templates
- Models
- Django admin interface
- Django Forms
- User Authentication
- Class-Based Views
- Pagination
- Sending mail
- Django Session framework
- Django Middleware



API Development:

It includes development of API for web apps, desktop apps, mobile apps.

Project:

Creating a Dynamic Web Application

- Frontend Using Bootstrap & templates
- Backend Using Templates

1 Mini Project

1 Major Project

Third party integration for ecommerce apps

1. Payment Gateway
2. SMS service

Overview of Data Science with python

1. Data analytics
2. AI & ML

Advance topics, mandatory for industry purpose.

Web Hosting

- Manage Domain with name server
- Manage Web Hosting from FTP and CPANEL
- Managing Database, Email Accounts, Sub Domains etc.
- Live your project.

Deployment

Project deployment on live server.

Git (Version Control) for teamwork

Version control is a practice of tracking and managing changes to software code. It is a software tool that helps software developers teams to manage changes to code over time.

It allows the team members to manage source code on a single project from different machines.

Project management tools (Trello)