



GEM Center

For Human Capital Development

...enhancing your success story

A BREAKDOWN OF OUR

3-WEEK BOOT CAMP ON FUNDAMENTALS OF WEB PROGRAMMING



DESCRIPTION

This bootcamp takes you through everything you need to know about web development. We will be taken through the basics of web design using HTML and CSS as well as adding interactivity and dynamism to the site with JavaScript. We will then go through advanced concepts with Server-side programming using PHP as well as how to manage data and databases with MySQL.

PLUS: You will also be introduced to cross-platform mobile application development (IOS, Android & Windows) using Cordova. You will be able to develop mobile applications and run it on different platforms!.

BREAKDOWN

DAY 1 :

WEB TECHNOLOGY

- o Introduction to web technology
- o HTML
- o Basic tags
- o CSS
- o Table and forms
- o Practical design of a static website

DAY 2 :

JAVA SCRIPT

- o Introduction to JavaScript
- o Variables
- o Operators
- o Data type
- o Conversions
- o Functions
- o Control structure
- o Date & time
- o Functions
- o Form manipulation
- o Add dynamism to our static website with Javascript

DAY 3 :

PHP

- o Introduction to PHP
- o History
- o Web browser
- o Web
- o Server, Xampp
- o Installation and configuration files.



DAY 4 :

- O Syntax
- O Operators
- O Variables
- O Constants
- O Control
- O Structure
- O Language construct and functions

DAY 5 :

- O Functions – syntax
- O Arguments - variables
- O References
- O Returns and variable scope

DAY 6 :

- O Arrays-enumerated arrays
- O Associative array
- O Array
- O Iteration
- O Multi-dimensional array
- O Array function and SPL

DAY 7 :

- O Date and time functions.

DAY 8,9:

OBJECT ORIENTED PROGRAMMINGS (OOP's)

- O Instantiation
- O Modifiers
- O Inheritance
- O Interfaces,
- O Exceptions
- O Static methods and properties
- O Auto load
- O Reflection
- O Type hinting



- o Class constance.

DAY 10

WEB FEATURES

- o Sessions
- o Forms
- o GET and POST data,
- o Cookies, HTTP headers.

DAY 11:

SQL

- o Introduction to database
- o Data types
- o DML
- o DDL
- o Aggregate functions
- o Data and time functions
- o Stored
- o Procedure
- o Sub query and join

DAY 12 :

- 🔗 Database programming

DAY 13:

NETWORK PROGRAMMIG

- o Streams
- o Files - reading & writing,
- o File system functions,
- o Streams- file uploading
- o File downloading.

DAY 14:

CROSS MOBILE PLATFORM DEVELOPMENT

- Introduction to Cordova
- Installation and configuration files
- Adding new modules
- Executing and exporting your mobile app

DAY 15:

- Practical project

