

Tech Boot Camp

Course Description

This course introduces basic and advanced programming skills and focuses on the core concepts of procedural and object oriented programming and design using basic mark-up languages (html & bootstrap), and high-level programming languages (PHP, Dart, Java, Kotlin).

The course focuses on practical mastery of application development, testing and implementation cycles.

Perquisite: basic programming knowledge, fast learner, owner of a lab top.

Course Objectives:

The student will:

- Design and construct standard automation processes.
- Develop dynamic web applications.
- Develop advanced apps using personalized tools (flutter, android studio..), and AI tools (Gemini, ChatGPT, Grok..)

Major Topics:

- Introduction and Overview
- Introduction to HTML & Bootstrap
 - Practical
 - Design of interactive website
- Introduction to data normalization(1NF,2NF,3NF)
 - Practical
 - Normalization of some standard receipts.
 - Installation of MYSQL server
 - Design of e-commerce data base
- Introduction to procedural programming
 - Practical
 - Insert, select, update and delete SQL queries
- Introduction to object oriented programming
 - Practical
 - Insert, select, update and delete SQL queries
- Introduction to dynamic web applications
 - Practical

- Design an e-commerce store
- Introduction to app development using personalized tools (flutter, android studio)
 - Practical
 - Installation and configuration of android studio
 - Installation and configuration of flutter
 - Design an e-commerce app
- App distribution
 - Practical
 - Host app on google playstore

Time Table

Day	Time
Monday	6pm – 8pm
Tuesday	6pm – 8pm