



Școala
informală
de IT

PHP Web Development Curriculum

Școala Informală de IT

Educație Informală S.A.

Tel: +4.0744.679.530

Web: www.scoalainformala.ro / www.informalschool.com

E-mail: info@scoalainformala.ro



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1. Basic concepts
2. HTML 5
3. Browsers
4. CSS 3
5. PHP
6. Database
7. JavaScript
8. Apache
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1. Basic concepts

- What is Internet?
- IP Address
- TCP/IP Protocol
- DNS router and server
- Protocol HTTP: methods GET, POST, PUT, DELETE
- Protocol FTP

2. HTML 5

- Language presentation
- Main tags: html, body, div, p, a, img, li, ul, ol, table, tr, td, th, object
- Other tags: object, form, input, textarea, button, header, footer, title, meta, script, etc...
- Customized tags and overview of supported tags in HTML5
- Essential type tags: inline, block
- Indentation rules
- Using attributes
- Language versions

3. Browsers

- How does a browser work?
- HTML code rendering
- DOM (Document Object Model)
- Presenting the console



4. CSS 3

- Attributes: style and class
- Common used properties
- Properties groups
- Rules priority
- Selectors
- Using Sprites
- Computed styles
- Testing styles in console

5. PHP

- History
- Sever-side code
- PHP code inside HTML
- Variables
- Structures
- Native functions
- Customized functions
- Objects
- Including files
- Read/write data on hard disk
- Using global variables:
 - `$_GET`
 - `$_POST`
 - `$_REQUEST`
 - `$_SESSION`
 - `$_GLOBALS`
- Scope
- Sessions
- Cookies



- Consuming external data: text, HTML, JSON
- JSON Format
- Using arrays
- Accessing database using:
 - MySQL
 - PDO

6.Database

- MySQL
- Creating tables and fields
- Field types
- CRUD operations
- Present: autoincrement, null, primary key, index, foreign key, etc.
- Joins
- Dumps, restoring database
- Good practices in creating database structures
- Rights

7. JavaScript

- Client-side code
- Fundamentals: tag `<script>`, `alert`, `confirm`, `console`, `window` object, `document`, `document.write`
- Variables
- Functions
- Objects
- DOM access
- JQuery library



8. Apache

- Installing CentOS (using VirtualBox)
- Linux fundamentals
- Installing Apache
- Installing PHP and MySQL
- .htaccess files

9. Advanced terms

- Version control with GIT
- MVC Model
- Templates engines
- Security
- Https protocol
- SEO
- Deploy mechanisms

10. Interview Preparation

- How to present oneself during an IT interview
- CV formatting tips