

# Overview (EN)

## *First Year*

### 1st Period

#### Block One

- ◦ General introduction.
- Introduction to programming; variables, conditional statements, flow-control and loops.
- Fast and short introduction into file management and code editors.
- Introduction to HTML; tags/element, attribute, paragraphs, headers, links, images, header body, nav, section, article, footer.
- HTML containers, HTML lists, HTML tables, HTML forms.

#### Block Two

- ◦ PHP and web server (XAMPP)
- Introduction to PHP; variables, numbers, strings, variables, conditional statements, flow-control and logical operators.
- Introduction of CSS; selectors, coloring, sizing, alignments.
- Internal- versus external CSS file.
- CSS Box model, flex box, grid, media queries

### 2nd Period

#### Block Three

- ◦ PHP; arrays, foreach, introduction into functions, advanced looping.

- JavaScript; variables, arrays, input/output, conditional statements, loops, functions, session storage.
- Introduction DOM
- Database design; ERD, Entities, Attributes, data-types, 1:N relations, Primary Keys and Foreign Keys.

## Block Four

- ◦ PHP; functions, value-key arrays (associative arrays in PHP).
- FE4, JavaScript and programming the (HTML)DOM.
- SQL; PhpMyAdmin, select, aliases, and/or, delete and primary keys.

## 3rd Period

### Block Five

- ◦ PHP Introduction into OOP; classes, objects, methods, public, private and basic inheritance.
- Databases design; ERD construction, including N:M relations.
- Planning of IT projects

### Block Six

- ◦ PDO; PHP and databases
- SQL; insert, update, introduction join (left join)
- Building a full working CRUD in PHP

## 4th Period

### Block Seven

- ◦ PHP forms and advanced use of functions.
- Introduction to PHP frameworks (Yii), routing.
- IT projects and designing

## Block Eight

- - Python; JSON, API programming
  - Introduction into React
  - Introduction to WordPress

# *Second Year*

## 1st Period

### Block Nine

- - Python/Flask, routing.
  - Devops (git)
  - PHP Frameworks (Yii); git, routing, relations, selecting, sorting.
  - IT Projects and testing

### Block Ten

- - Python and (simple) game development.
  - PHP Frameworks (Yii), creating your own CRUD.
  - ???

## 2nd Period

### Block Eleven

- - Introduction to RegEx
  - Bootstrap/Less
  - PHP Frameworks, introduction to Laravel.
  - IT Projects and 'Lessons Learned' (reflections).

# Block Twelve

- - React
  - Laravel
  - Bin/Hex
  - ???

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