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, rouitng, 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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