



Course syllabus

CT313H – WEB TECHNOLOGY

Course Objectives

- Introduce basic technologies in web application development
- After this course, the student can:
 - utilise **HTML5, CSS3, XML, JSON, Javascript, AJAX, jQuery** in developing web applications
 - create web application based on **MVC model**
 - use OOP approach in PHP
 - create web application on mobile devices

Course content

- Chapter 1: Introduction
- Chapter 2: Design web UI with Bootstrap
- Chapter 3: jQuery
- Chapter 4: OOP in PHP and PDO
- Chapter 5: MVC model
- Chapter 6: Web API

Prerequisite: Web programming

Labs

Part 1: Bootstrap

Part 2: jQuery

Part 3: OOP in PHP and PDO

Part 4: MVC – Part 1

Part 5: MVC – Part 2

Part 6: Web API

References

- Bootstrap:

- [http://getbootstrap.com\(.vn\)](http://getbootstrap.com(.vn))
- <http://w3schools.com/bootstrap>
- <http://bootswatch.com>

- jQuery:

- Bear Bibeault, Yehuda Katz, Aurelio De Rosa. **Jquery in Action**, 3rd Edition, Manning, 2015.
- <http://www.w3schools.com/jquery/>
- <http://learn.jquery.com/>

References

- PHP:

- Ullman Larry. **PHP Advanced and Object-Oriented Programming**, Third Edition, Peachpit Press, 2013.
- Matt Zandstra. **PHP Objects, Patterns, and Practice**, Third Edition, Apress, 2010.
- <https://github.com/domnikl/DesignPatternsPHP>
- <http://php.net/manual/en/book.pdo.php>

- Web API, REST API:

- http://www.ics.uci.edu/~fielding/pubs/dissertation/rest_arch_style.htm
- REST API Tutorial (<http://www.restapitutorial.com/>).
- The RESTful CookBook (<http://restcookbook.com/>).

Grading

- Assignment (Quizzes + Labs): 40%
- Final (project): 60%



Question?

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