Hanze

# Vak: Web Based Information Systems — credits: 3

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| **Vakcode** | BFVH4WBI1 |
| **Naam** | Web Based Information Systems |
| **Studiejaar** | 2023-2024 |
| **ECTS credits** | 3 |
| **Taal** | Nederlands |
| **Coördinator** | M.A. Noback |
| **Werkvormen** | Practicum / Training |
| **Toetsen** | Web Based Information Systems - Computer, eigen organisatie |

**Leeruitkomsten**

- After successfully attending this course, students will be
- familiar with the different aspects of web application development; both server- and client-side and the connection between them (http)
- able to design a web application for a given a problem, and specify the responsibilities and interactions between the different components
- able to work with Java web technology at a basic level: Servlets, JSP en Tomcat
- able to design a web application using web-forms, servlet request handling and JSP response presentation
- able to use a MySQL database as a data layer of a web application
- able to use Javascript for enhancing client side dynamic behavior and functionality
- able to use the IntelliJ Idea IDE to perform all of the programming tasks associated with web application development

**Inhoud**

This course will introduce you to several aspects related to designing and creating a dynamic web application using Java web technology and MySQL for the back-end and Javascript/HTML/CSS for the front-end. You will learn about the following concepts and techniques, how they interact within a modern dynamic web application, and how to apply them:

- HTTP and its methods GET and POST
- User authentication and sessions
- Java web application components: Servlets, JSP, EL, JSTL
- (MySQL) Database persistence of user data
- Web application design using the Model View Control design paradigm
- Front-end dynamic behaviour using Javascript, AJAX, jQuery
- Organizing project code and data using version control using git and Bitbucket (www.bitbucket.org)

**beoordeling** There will be a 2-hour computer assessment to test your skills and knowledge of the different aspects.

**Opgenomen in opleiding(en)**

Bio-Informatica

**School(s)**

Instituut voor Life Science & Technology

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