

Offered by
ICT Engineering

IT-RWD1

2.0

Responsive Web Design

ECTS
5

Prerequisites
General admittance requirements.

Main purpose

The main purpose of the course is to introduce a set of theories, tools, and practicable methods in order for students to obtain a profound knowledge and practical skills of web development with the ability of creating web sites running on PC and mobile devices using basic web programming and design combined with jQuery.

Knowledge

The student will gain knowledge of the following topics:

- HTML5
- CSS3
- W3C Validation
- Responsive web-Design (Multiplatform)
- jQuery
- Bootstrap

Skills

Having completed this course, students will be able to:

- Create web sites using Hyper Text Markup Language (HTML5)
- Style web pages using Cascading Style Sheets (CSS3)
- Using responsive web-Design to design web sites that are platform independent
- Create "smart" web sites using jQuery, and Bootstrap

Competences

To obtain the fundamental knowledge needed to:

- Create platform independent web applications

Topics

Teaching methods and study activities

Required workload for students is estimated at 150 hours where approximately two thirds are self-study, including exercises and preparation for the examination. Activities alternate between theory, self-study, and exercises.

CATEGORY 1

Participation of lecturer and students
Initiated by the lecturer
55 hours - 37%

- Lessons, scheduled
- Excursions
- Project guidance
- Laboratory work
- Exams and tests

CATEGORY 2

Participation of students
Initiated by the lecturer
30 hours - 20%

- Assignments, self-study
- Project and group work
- Homework and preparation for exams
- Evaluation of the teaching

CATEGORY 3

Participation of students
Initiated by students
55 hours - 37%

- Homework and preparation for exams
- Self-study
- Project work
- Study groups
- Literature search

CATEGORY 4

Participation of lecturer and students
Initiated by students
10 hours - 6%

- Debate meetings
- Study guidance

Resources

[Duckett, 2011] : HTML & CSS Design and build Websites, Jon Duckett, First Edition, ISBN: 978-1-118-00818-8

[LaGrone, 2013] : HTML5 and CSS3 Responsive Web Design Cookbook, ISBN: 978-1-84969-544-2

[Duckett, 2014] : Javascript & jQuery, Jon Duckett, First Edition, ISBN: 978-1-118-53164-8

<https://www.w3schools.com/>

<http://getbootstrap.com/>

<http://jquery.com/>

Evaluation

Permit criteria for attending examination:

- * Mandatory course activities completed
- * Mandatory assignments handed in before deadline and accepted.
- * Attendance (75%)

The student must have an attendance of at least 75% in order to qualify for the exam. If this requirement is not met, the student will automatically fail the ordinary exam.

Examination

Duration: 2 hours

Digital written examination (2 parts):

Part 1: Multiple choice questions 30 minutes without aids

Part 2: Short answer questions 90 minutes (explaining and writing code) with all aids, including internet connection

Internal examiner

Grading criteria

For ordinary examinations:

Examinations account for 100 % of final grade.

For re-examinations:

Examination will count for 100 % of final grade.

Additional information

Responsible

10/9/2018

Line Lindhardt Egsgaard (LILE)

Valid from
1.2.2018

Course type
Global Business Engineering; Compulsory Course for GBE-ICT; 4. semester;
ICT Engineering; Compulsory Course for all ICT Engineering; 1. semester;
Software Ingeniør; Compulsory for Software Ingeniør; 1. semester;

Ch. K. Petersen



**VIA University
College**

Campus Study Administration
Chr. M. Østergaards Vej 4
8700 Horsens
Tel. +45 8755 0020