

Implementation plan Finished

Study unit	Web App Development with MEAN (R0314), 5.0
Implementation	CCA1721: 2/2017-2018 (15.01.2018 - 13.05.2018)
Type	WEB DEVELOPMENT (R057)
Groups	Primary: CCA17SY Others :
Involved in the project	
Lecturers	
Number of participants	Minimum: Maximum:
Enrolment period	27.11.2017 08:00 - 08.12.2017
Main timing for implementation	On working days during daytime
Applicability	For exchange students: Yes For elective studies: No Open UAS student: No Suitable for virtual UAS: No
Teachers	De Arruda Camara Antonius (Teacher in charge)
Campus	Laurea Leppävaara
Main location for implementation	At the campus
Implementation method	Optima realization/student group Language: English Virtuality: 0 cr Integration of R&D: 0 cr
Implementation class	LbD supporting knowledge and skills development
Focus areas	No connection to focus areas
Evaluation at the latest	15.07.2018 Storing of graded material ends.: 15.06.2019
Exam days	
Having completed the study unit the student is able to	The student is able to - describe the fundamentals of MEAN stack and how web developers can benefit from it - install and configure a MEAN stack development environment - design, develop and implement Node.js web applications - implement server-side web scripts using Express.js framework - implement server-side web scripts that interact with a relational and/or NoSQL database
Previous studies	
Previous studies, more information	- Basics of programming (with any language) - Basics of HTML/CSS/JavaScript
Learning objectives	During this course students will learn how to implement web applications using building blocks from the MEAN stack (MongoDB, Express, Angular, Node.js)
Contents	- Node.js - Express framework - NoSQL databases and MongoDB - REST APIs - Code publishing at Github - Application deployment on Microsoft Azure
Study material	- Material provided by the teacher (Theory slides and Workshop exercises) - E-book from Laurea library (EBook Central): MEAN Web development - 2nd edition (https://ebookcentral.proquest.com/lib/laurea/detail.action?docID=4755348) - Resources available on the internet
Tutoring and communication	- Optima - Lectures and course material are in English. Finnish students (Tiko) can return material in Finnish and can communicate with the teacher in Finnish
Evaluation criteria and methods	Evaluation will be based on the outcomes of an individual project. There will be no exams. Students will implement an individual project based on the targets and criteria

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	specified by the teacher. During the project work, students will collect points from completing different project targets according to the set criteria. The final grade will be based on the total points collected by the student.
Work strain	• 30 hours: Contact sessions (About 12 contacts sessions of 2,5 hours each) • 105 hours: Independent, self-paced work (Studying concepts, completing workshop exercises, working on individual project) • Total: 135 hours of work
Other arrangements	Students should have an own computer to install the development environment and do the development work. Attendance to the first contact session is compulsory. Students that do not attend the first contact session and do not inform the teacher in advance will be removed from the course. The unused study-places will then be offered to students that are on the enrolments waiting list. Attendance to other contact sessions is not compulsory and it is optional. Contact sessions will be offered to support students learning process (theory, workshops, development environment, individual project). Students should check in ASIO the reserved dates, and in Optima the content of each contact session