

Implementation plan Finished

Study unit	Native Mobile Application Development (R0316), 5.0
Implementation	CCA1721: 2/2017-2018 (28.01.2018 - 15.06.2018)
Type	MOBILE APPLICATION DEVELOPMENT (R058)
Groups	Primary: CCA17SY Others :
Involved in the project	
Lecturers	Paresh Rathod
Number of participants	Minimum: Maximum:
Enrolment period	27.11.2017 08:00 - 08.12.2017
Main timing for implementation	
Applicability	For exchange students: No For elective studies: No Open UAS student: No Suitable for virtual UAS: No
Teachers	Rathod Paresh (Teacher in charge)
Campus	Laurea Leppävaara
Main location for implementation	Virtually
Implementation method	Optima realization/student group, Web/virtual Language: English Virtuality: 5 cr Integration of R&D: 0 cr
Implementation class	
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 • set up and use a development environment for Android • understand the application structure • design and implement user interfaces for mobile devices • store data using local files and databases • create responsive user interfaces that work across a variety of screen sizes • utilize services provided by devices (Location data, camera etc.) • build, test and deploy apps on Android devices
Previous studies	
Previous studies, more information	To participate in this study unit: • Student must have finished: Fundamentals of Programming • Student given priority if finished: Introduction mobile app design and development or previous mobile app courses
Learning objectives	Android Mobile Apps Development
Contents	The content of this course is preparing students for Google Certification titled, "Associate Android Developer": 1. The Android Basics: Setting up the Android Application Development Environment, Creating, Testing and Debugging Applications 2. The User Interface Design: Create adaptive, responsive user interfaces that work across a wide range of devices 3. The Android Background Tasks: Perform background work and long-running tasks in Android applications 4. The Android and Data: Storing, sharing and retrieving data in Android applications 5. Advanced features: How permissions, security and performance works in android. Learn how Firebase works to build and test your app. Monetization strategies and Publishing Apps.
Study material	The study material includes: 1) Video tutorials 2) Slides of the lessons 3) Practical guides
Tutoring and communication	• Course Management System: Optima is main platform for weekly modules

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	• Optima Discussion Forum for communication • Scheduled Volunteer Classroom and Online Tutoring from teacher (extra help and guidance)
Evaluation criteria and methods	Students are collecting points via weekly modules including following components • Practical hands-on labwork • Module based learning tasks • Practical online test 1 and classroom test 2 (mid-term and end of term tests) More details on Optima during induction week.
Work strain	About 150 hours of student learning time in this study undue to professional training and hands-on practical subject. 1 ECTS = 30 Hours (Due to Professional Skills development) ECTS Guideline: 60 ECTS credits are attached to the workload of a full-time year of formal learning (academic year) and the associated learning outcomes. In most cases, student workload ranges from 1,500 to 1,800 hours for an academic year, whereby one credit corresponds to 25 to 30 hours of work
Other arrangements	<u>Very Important:</u> • This is fully online learning. However, final evaluation is in classroom test. • There are only maximum 40 seats available. • Priority will be given to students finished previous mobile app study units at Laurea.