

COURSE GUIDE 2022-2023

Course Title	Empowering Android
Term	4
Inholland	Engineering, Design and Computing
Faculty	
Language of	English
instruction	
Cycle	First cycle/undergraduate/Bachelor level
Inholland	Diemen
Location	
Code Subjects	To be determined
Number of	15
ECTS	
Content	Android Application Development
subjects	In this module you will learn how to create a mobile application for the
	Android platform.
	Topics covered are:
	Architecture of the Android Operating System
	Designing Android applications
	 Creating screens using Activities and Fragments
	 Running background tasks and services
	 Storing simple data locally on the mobile device
	Communicating over a network
	Incorporating location services
	Java Backend Technology
	In this module you will learn how to configure an application server
	such as JBoss and create an application running in it which will provide
	services over a network.
	Topics covered are:
	 Applications servers and how to configure one
	Creating servlets running in the application server
	Simplifying servlet development with Java Beans and Java Server
	Pages based templates
	Connecting a relational database to the application with Hibernate



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	 Offering access to the application in the form of a network service
	 Setting up security in your application
	Capstone project
	This module is integrates the other two in a life-like project. During the
	last three weeks of the minor students work in small projects creating a
	complete architecture with a backend and a mobile application
	accessing it. The projects are done for and with partners in the work
	field or based on situations from the work field.
Lecturer(s)	To be decided
Learning	After completing the minor the student is able to:
outcomes	 Install and configure an application server
	 Create and run a Java-based backend application
	 Design and implement an Android mobile application
	 Connect an Android application to a backend server
Mode of	This minor runs for 10 weeks from April 30, 2022 to June 30, 2022.
delivery,	
planned	This minor consists of three major parts, two of which are offered during
activities and	the first seven weeks, the last one starting during the term and being
teaching	finished during the last three weeks.
methods	Contact hours: 4 days (maximum) per week at school
Prerequisites	The minor is open for 3rd and 4th year bachelor students. The following
and co-	skills are required:
requisites (if	• Java programming
applicable)	Multi-threaded programming
	Structured Query Language
	Database Management Systems
Recommended	To be determined
or required	
reading and/or	
other learning	
resources/tools	
Assessment	The whole minor is graded by the capstone project. Students are
methods and	required to all work on both parts of the architecture and keep a strict
criteria	documentation of who did what in the form of JavaDoc annotations and
	UML designs. Finally they hand in the designs, code of both



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applications, setup scripts and the generated Java documentation.
Based on this the minor is finalized by an assessment.