Module title
App Development for Android Smartphones

<table>
<thead>
<tr>
<th>Module code</th>
<th>Level</th>
<th>Hours per week</th>
<th>ECTS credits</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>Tbd.</td>
<td>Bachelor (B.Sc.)</td>
<td>4</td>
<td>5</td>
<td>1 semester</td>
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<thead>
<tr>
<th>Module instructor</th>
<th>Lecture type</th>
<th>Prerequisite(s)</th>
<th>Grading</th>
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<tbody>
<tr>
<td>M.Sc Jussi Koistinen Savonia University of Applied Sciences, Finland</td>
<td>Lectures + Guided Lab Sessions</td>
<td>Java programming</td>
<td>Weekly assignments + final project</td>
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Objectives
This course will introduce the principles, practices and tools of how to implement and deploy Android application.
- Students understand the principles of Android programming
- Students know how to use various widgets when building Android application
- Students can use selected API:s
- Students can implement an Android application which uses HTTP connection to communicate with backend system
- Students know how to deploy and publish Android application

Content
- Fundamentals of Android system
- Activities and Intents
- UI design (widgets, menus, dialogs, notifications)
- Saving data
- Connecting to backend system with HTTP
- Location API
- Capturing photos and video

Textbook/teaching material
- Android Developer Resource website

Note: this is not the official course descriptor according to the "Studien- und Prüfungsordnung" (SPO)