Software Project / Department of Computer Science / The Technion 236503+236603

The Technion – Israel Institute of Technology
Department of Computer Science
236503+236603 Software Project
3+2 Credit Points
Prof. Eran Yahav

Winter 2020

Abstract: In this course, we shall study the topic of developing mobile application, and we shall implement application for mobile smartphones running the Android OS. Application ideas will come from the students themselves (as part of the registration process).

Openings: up to 40 students. You have to be a student of the department of computer science, or one of its major track, at least in their 3rd year. That is an electrical engineering student enrolled in the joint computer engineering track, or an information systems student enrolled in the joint information systems track. For details and registration see course site. For questions, contact the Teaching Assistants.

Prerequisites: developing Android application is done in Java and usually involves networking, databases and files. A prerequisite for the course is prior experience with Java. A passing grade in OOP course (236703) or the yearly project qualify as prior experience. Other form of experience will be considered by the course staff. Students who are not familiar with databases/networking may register but these registration will be at the end of the semester.

Teams: Students shall work in teams of 3 applying the agile software development method. Each team shall be responsible for developing a distinct application. Registration is for teams only. Singles and doubles will not be allowed to register.

Schedule: the course will include weekly lecture on developing applications for Android OS, including relevant Agile development practices. In the first weeks there will be additional lectures (with contents which doesn't overlap with the regular lectures) in order to give all students the basic knowledge required to start working on their applications. Also, in the first weeks the students will need to submit several home assignments. At the end of the semester the students will present their mobile applications to the student body.

There will be several submission dates (during regular lecture times, dates will be published later). Attendance on those dates and on submission dates is mandatory. Submission of final application will be at the end of the semester. Rest of the semester dates are according to the regular Technion schedule. The course includes a final exam.