Dongseo University

Division of Computer Engineering

Software Development Practice 4

Instructor(s): Byung Gook Lee
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Classroom: Room 207, UIT Bldg.
Class Time: Class Time:
Office Hours:

Course Description:
This course provides students with a comprehensive study of high-level JAVA programming and Smart-Web programming. Programming for embedded systems or other IOT applications requires a proficient level of understanding of high-level JAVA programming skills. Such topics will be covered in this class. Furthermore, small projects on the topic of high-level networking, hardware linkage, and computer vision, etc., will be performed throughout the class.

Course Goals & Objectives:
At the conclusion of this course, the successful (passing) student will be able to
1. Implement advanced programs using the JAVA language
2. Gain a comprehensive understanding on embedded systems and IOT applications
3. Write simple Smart-Web and IOT applications to solve problems

Course Outline:

- Week 1  Advanced JAVA language practice(1)
- Week 2  Advanced JAVA language practice(2)
- Week 3  Advanced JAVA language practice(3)
- Week 4  Advanced JAVA language practice(4)
- Week 5  Implementation of Embedded systems (1)
- Week 6  Implementation of Embedded systems (2)
- Week 7  Implementation of Embedded systems (3)
- Week 8  Mid-Term Week
- Week 9  Understanding the IOT environment (1)
- Week 10 Understanding the IOT environment (2)
• Week 11  Building IOT applications
• Week 12  Basics of Smart-Webs
• Week 13  Building Smart-Web applications
• Week 14  Final Project Presentation
• Week 15  Final Exam

Textbook(s)
• Required:
• Recommended:

Class Website: e-Class

Course Assignments & Grading:
• Exams: 50% (Mid-term Exam 25%, Final Exam 25%)
• Quizzes: 0–10%
• Course Projects: 0–20%
• Assignments: 0–20%
• Bonus Credit: Attendance Points 20%
• Grading: A~A+ : 30%, B~B+ : 35%, under C+ : 35%

Grading Policies:
• Late Work: All assignments must be submitted on the due date. Late assignments will not be accepted
• Make-Ups: There will be no make-ups given for any of the assignments in this course
• Contesting: Grades can be contested during a two-week period from the time that they are announced. After such period has elapsed, grades may not be contested

Course Policies:
• Attendance:
• Academic Misconduct Policy: Any form of cheating will be penalized and may result in failing the course or expulsion from the university.