Dongseo University

Division of Computer Engineering

Software Development Practice 4

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