CS 23301  Robotics and Embedded System Lab 1  1 credit hours

Instructor’s Name: Jong-Hoon Kim

Course Materials: Online notes and tutorials

Course Catalogue:
Electronic basic, Microcontroller, C programing, 3D printing, Software Development, Team Development, Project Management, A Short Embedded System Development Project.

Prerequisites or co-requisites: minimum grade of C (2.000) or better in CS 13001. Required (BS-RES), elective (BS-other)

Topics to be Covered:
Course Goals
1. Electronic basic
2. Basic electrical components
3. Embedded System Development
4. Embedded C programming
5. Team Development
6. 3D Printing

Learning Outcomes:
1. Understanding electronic basic
2. Familiar with electrical components
3. Learn microcontroller architecture
4. Understanding embedded systems
5. Learn embedded C programming
6. Learn team development
7. Learn a 3D Printing

Learning Outcomes Assessment:
1. A small program with hardware components in Each lab
2. Team discussion recording
3. Team meeting schedule maintaining
4. Weekly Discussion Board Responses.