DEPARTMENT OF COMPUTER SCIENCE COURSE SYLLABUS

CS 22301  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.