



Syllabus(2016-1)

Course Title	Basic Engineering Design for Electronics Engineering	Course No.	36564-1
Department/ Major	Electronics Engineering	Credit/Hours	3/3
Class Time/ Classroom	Lecture: 공A424 (12:30-3:15, Wed.) Lab. 공A410 (12:30-3:15, Wed.)		
Instructor	Name: Jewon Kang	Department: Electronics Engineering	
	E-mail: jewonk@ewha.ac.kr	Telephone: 02-3277-2347	
Office Hours/ Office Location	TBD		

I. Course Overview

1. Course Description

This course aims to develop the skills for creative engineering design. Students are required to participate in the team activity and perform a design project. Creative thinking will be a must in this class. The class will have a short lecture and team activity. The main components will be team activity and discussion. Team activity will be monitored and each team will have a feedback from a TA or the instructor irregularly.

2. Prerequisites

3. Course Format

Lecture	Discussion/Presentation	Experiment/Practicum	Field Study	Other
20 %	60 %	20 %		%

(Instructor can change to match the actual format of the class.)

Explanation of course format:

The main components will be team activity and discussion. Team activity will be monitored and each team will have a feedback from a TA or the instructor irregularly.

4. Course Objectives



This course aims to develop the skills for creative engineering design. Students are required to participate in the team activity and perform a design project. Above all, creative thinking will be a must in this class.

5. Evaluation System

Midterm Exam	Final Exam	Quizzes	Presentation	Projects	Assignments	Participation	Other
20 %	20 %	%	20%	20%	10%	10%	%

(Instructor can change to match the actual format of the class.)

- * More than 5 absences from the class will give rise to F grade.
- * The evaluation criteria can be changed.

II. Course Materials and Additional Readings

1. Required Materials

ppt materials will be uploaded at Cyber Campus.

2. Supplementary Materials

Arduino

3. Optional Additional Readings

III. Course Policies

- * For laboratory courses, all students are required to complete lab safety training.

IV. Course Schedule (15 credit hours must be completed.)



Week	Date	Topics & Class Materials, Assignments	
Week 1	(mm/dd)	Intro and Lecture (What is engineering design?)	
	(mm/dd)		
Week 2	(mm/dd)	Lecture (Problem statement), team activity	
	(mm/dd)		
Week 3	(mm/dd)	Lecture (Idea generation), team activity	
	(mm/dd)		
Week 4	(mm/dd)	Lecture (Idea assessment), team activity	
	(mm/dd)		
Week 5	(mm/dd)	Lecture (teamwork), team activity	
	(mm/dd)		
Week 6	(mm/dd)	Lecture (communication), team activity	
	(mm/dd)		
Week 7	(mm/dd)	Lecture (Mental block, visualization), team activity	
	(mm/dd)		
Week 8	(mm/dd)	Midterm presentation	
	(mm/dd)		
Week 9	(mm/dd)	Midterm presentation	
	(mm/dd)		
Week 10	(mm/dd)	Lecture (Intelligence model, memorization), team activity	
	(mm/dd)		
Week 11	(mm/dd)	Team activity	
	(mm/dd)		
Week 12	(mm/dd)	Team activity	
	(mm/dd)		
Week 13	(mm/dd)	Team activity	
	(mm/dd)		
Week 14	(mm/dd)	Final presentation	
	(mm/dd)		
Week 15	(mm/dd)	Exhibitions of the final works	
	(mm/dd)		
Makeup Classes 1	(mm/dd)		
Makeup Classes 2	(mm/dd)		

V. Special Accommodations



* According to the University regulation #57, students with disabilities can request special accommodation related to attendance, lectures, assignments, and/or tests by contacting the course professor at the beginning of semester. Based on the nature of the students' requests, students can receive support for such accommodations from the course professor and/or from the Support Center for Students with Disabilities (SCSD).

* The contents of this syllabus are not final—they may be updated.