

课程详述

COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程检讨之后产生变动。如对课程有任何疑问，请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 Course Title	DIY 项目: iphone6 的组装 DIY Project: Assembling an iphone6				
2.	授课院系 Originating Department	电子与电气工程系 Department of Electrical & Electronic Engineering				
3.	课程编号 Course Code	EES102				
4.	课程学分 Credit Value	2				
5.	课程类别 Course Type	专业选修课 Major Elective Courses				
6.	授课学期 Semester	夏季 Summer				
7.	授课语言 Teaching Language	中英双语 English & Chinese				
8.	授课教师、所属学系、联系方式 (如属团队授课, 请列明其他授课教师) Instructor(s), Affiliation & Contact (For team teaching, please list all instructors)	孙小卫 讲座教授 电子与电气工程系 sunxw@sustech.edu.cn 张利君 工程师 电子与电气工程系 zhanglj@sustech.edu.cn Xiaowei Sun Chair Prof. Dept. of Electrical & Electronic Engr. sunxw@sustech.edu.cn Lijun Zhang Teaching Engineer Department of EEE zhanglj@sustech.edu.cn				
9.	实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact	待公布 To be announced				
10.	选课人数限额(可不填) Maximum Enrolment (Optional)	20				
11.	授课方式 Delivery Method	讲授 Lectures	习题/辅导/讨论 Tutorials	实验/实习 Lab/Practical	其它(请具体注明) Other (Please specify)	总学时 Total
	学时数 Credit Hours			64		64

12. 先修课程、其它学习要求
Pre-requisites or Other Academic Requirements

13. 后续课程、其它学习规划
Courses for which this course is a pre-requisite

14. 其它要求修读本课程的学系
Cross-listing Dept.

教学大纲及教学日历 SYLLABUS

15. 教学目标 **Course Objectives**

本实践课程旨在训练学生的动手能力，激发他们学习电子科学与技术的兴趣。课程要求学生自己搜集资料，购买元器件或者组件，自行焊接、组装一部 iPhone6 手机。

The aim of this course is to lead students to find interests in engineering projects, inspire them to choose major in the department of electrical and electronic engineering, even in the future, to become excellent electrical engineers. The task of the project is to assemble an iPhone6.

16. 预达学习成果 **Learning Outcomes**

组装完成一部 iPhone6 手机，熟悉手机作为一个通讯系统的各个组成部件以及工作原理。

Assemble all the components into an iPhone6 as a whole. Know the function of each component of the cell phone.

17. 课程内容及教学日历（如授课语言以英文为主，则课程内容介绍可以用英文；如团队教学或模块教学，教学日历须注明主讲人）

Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)

课程要求学生自己搜集资料，购买元器件或者组件，自行焊接、组装一部 iPhone6 手机。整个项目的时间限定在 45 天内，经费控制在 3000 元，两个学生一组完成任务，同时将组装的全过程自行录像，组装完毕统一组织项目答辩。

The task of the project is to assemble an iPhone6. Two students are a group, they are required to collect any information or technical reports about the project, purchase the electronic components and packages from the market, assemble all the components into a cell phone. They need to finish the project in 45 days and record the whole process in video, the budget of the project is 3000RMB. Each group is required to give a final presentation.

18. 教材及其它参考资料 **Textbook and Supplementary Readings**

课程评估 ASSESSMENT

19. 评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance				
课堂表现 Class Performance				
小测验 Quiz				
课程项目 Projects		80%		
平时作业 Assignments				
期中考试 Mid-Term Test				
期末考试 Final Exam				
期末报告 Final Presentation		20%		
其它（可根据需要 改写以上评估方式） Others (The above may be modified as necessary)				

20. 记分方式 GRADING SYSTEM

A. 十三级等级制 Letter Grading
 B. 二级记分制（通过/不通过） Pass/Fail Grading

课程审批 REVIEW AND APPROVAL

21. 本课程设置已经过以下责任人/委员会审议通过
This Course has been approved by the following person or committee of authority