

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	科学与工程类专利基础 Patent Basics for Scientists and Engineers
2.	授课院系 Originating Department	深港微电子学院 School of Microelectronics
3.	课程编号 Course Code	SMES202
4.	课程学分 Credit Value	1
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)	张国飙 (研究教授) 深港微电子学院 台州楼 218 电话: 15828385601 邮箱: zhanggb@sustech.edu.cn ZHANG, Guobiao, Research Professor School of Microelectronics 218 TaiZhou Hall Telephone: 15828385601 Email: zhanggb@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)	

11. 授课方式 Delivery Method	讲授	习题/辅导/讨论	实验/实习	其它(请具体注明)	总学时
	Lectures	Tutorials	Lab/Practical	Other (Please specify)	Total
学时数 Credit Hours	16				16

12. 先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	无 N/A
13. 后续课程、其它学习规划 Courses for which this course is a pre-requisite	无 N/A
14. 其它要求修读本课程的学系 Cross-listing Dept.	无 N/A

教学大纲及教学日历 SYLLABUS

15. 教学目标 Course Objectives

本课程旨在对学生进行知识产权教育，熟悉科学类和工程类的专利并能撰写和申报相应的中美专利。

This course aims to educate students on intellectual property, familiarize them with patents of science and engineering, and patents application in China and the United States.

16. 预达学习成果 Learning Outcomes

本课程的学生预期能达到如下成果：1、了解中美两国的专利制度；2、发明的构思；3、现有技术的检索；4、专利申请的绘图与撰写；5、科学和工程类专利申请的递交

After completing this course, the students will learn the followings: 1. the patent basics in China and the U.S.; 2. invention; 3. searching; 4. drawings and specification; 5. filing of patent application of science and engineering.

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.)

1-4 学时：专利简介、发明的艺术以及专利的要求，着重讲解科学类与工程类专利；学生分组、注册中国专利局账号、以组为单位尝试一个发明构思

Credit Hour 1-4: patent basics, the art of invention and requirements of patents. Emphasis on explaining scientific and engineering patents lab section: form student groups, register an account with Chinese IP Office, each student group tries an inventive idea.

5-8 学时：检索；各组对自己的发明构思进行检索

Credit Hour 5-8: teaching section: searching; lab section: each student group searches prior art for the idea.

9-12 学时：基于检索结果对发明构思进行优化；实践：发明构思的定型

Credit Hour 9-12: teaching section: refine the idea based on the search results; lab section: finalize the idea.

13-16 学时：说明书、权利要求；实践部分：绘图、权利要求和说明书的撰写、递交申请

Credit Hour 13-16: teaching section: specification, claims; lab section: drawings and writing of specification, writing of claims and filing of patent applications.

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

David Pressman & Thimas J.Tuytschaevers, "Patent It Yourself", 17th edition, NOLO, 2014

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		10		
课堂表现 Class Performance		20		
小测验 Quiz				
课程项目 Projects		70		
平时作业 Assignments				
期中考试 Mid-Term Test				
期末考试 Final Exam				
期末报告 Final Presentation				
其它（可根据需要 改写以上评估方式） Others (The above may be modified as necessary)				

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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