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**	**有机电子学 Organic Electronics**
2.	**授课院系 Originating Department**	电子与电气工程系 Department of Electrical and Electronic Engineering
3.	**课程编号 Course Code**	EE404
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**	春季 Spring
7.	**授课语言 Teaching Language**	中文 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 教授 电子与电气工程系 第二科研楼 501 电话： +86-755-88018558 电邮: sunxw@sustc.edu.cn Xiaowei Sun Professor Department of Electrical and Electronic Engineering, Faculty Research Building 2, room 501 Tel: +86-755-88018558 Email: sunxw@sustc.edu.cn 王立铎教授 清华大学化学系有机光电子与分子工程教育部重点实验室 Liduo Wang Professor Key Laboratory of Organic Photoelectronics and Molecular Engineering, Department of Chemistry, Tsinghua University
9.	**实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact**	
10.	**选课人数限额(可不填) Maximum Enrolment**	

	（Optional）	

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	24	8 (讨论 discussion)			32

12.	先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	无 None
13.	后续课程、其它学习规划 Courses for which this course is a pre-requisite	无 None
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**

本课程的教学目标在于：使同学们掌握有机电子学的基本原理，掌握有机小分子和聚合物等有机半导体材料和器件的基本概念，理解有机半导体材料中的电子过程基础内容，了解有机电子学相关的有机发光和光伏器件的结构和性能及其构效关系等。通过讲授有机电子学相关典型案例，展示有机电子学的突破性进展，激发同学们的学术志趣，培养同学们的创新思维能力。

The teaching objectives of this course are to enable students to grasp the basic principles of organic electronics, the basic concepts of organic semiconductor materials and devices, such as organic small molecules and polymers, to understand the basic contents of electronic processes in organic semiconductor materials, and to understand the structure and performance of organic light-emitting and photovoltaic devices related to organic electronics, as well as their structure-activity relationships. Through lecturing typical cases of organic electronics, the breakthrough progress of organic electronics is demonstrated, students'academic interest is stimulated, and students' innovative thinking ability is trained.

16. **预达学习成果 Learning Outcomes**

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.)

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				
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)				

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