


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	科技创新项目 Projects of Science and Technology Innovation				
2.	授课院系 Originating Department	电子与电气工程系 Electrical and Electronic Engineering				
3.	课程编号 Course Code	EE480				
4.	课程学分 Credit Value	2				
5.	课程类别 Course Type	专业核心课 Major Core Courses				
6.	授课学期 Semester	春季 Spring / 秋季 Fall				
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)	 SUSTech Southern University of Science and Technology				
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			64		64

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

教学大纲及教学日历 SYLLABUS

15. 教学目标 Course Objectives

创新能力拓展项目，学生通过科研活动、学科竞赛、科技创新项目、社会实践等形式，学生可以选择在第一学年后的任何学期开展科技创新项目，满足该学分的最低学时要求为 64 学时。

Students complete the course by participating research activities, competitions, technological innovation projects, social practices, etc. and can take the course in any appropriate semester based on their study plans. The minimum study load for this course is 64 hours in total.

16. 预达学习成果 Learning Outcomes

通过此课程，学生有望提升以下一个或多个领域的的能力，包括

1. 运用数学、科学和工程知识的能力
2. 设计并实施实验，以及分析和解释数据的能力；
3. 在考虑费用、环境、社会、政治、伦理、健康、安全、制造能力以及可持续发展等实际限制条件下，设计满足需求的系统、元器件，或过程的能力
4. 多学科协作的能力
5. 确认、规划，并解决工程问题的能力
6. 对专业和伦理责任的理解
7. 有效沟通的能力
8. 工程解决方案对全球化、经济、环境和社会的重大意义深刻理解
9. 对终身学习的必要性的认可和终身学习的能力
10. 对现代问题的认知，以及
11. 运用科技、技能及现代工具到工程实践中的能力。

By taking this course, students are expected to improve one or more of the following abilities, including:

1. An ability to apply knowledge of mathematics, science, and engineering
2. An ability to design and conduct experiments, as well as to analyze and interpret data
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. An ability to function on multidisciplinary teams
5. An ability to identify, formulate, and solve engineering problems
6. An understanding of professional and ethical responsibility
7. An ability to communicate effectively
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
9. A recognition of the need for, and an ability to engage in life-long learning
10. A knowledge of contemporary issues
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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.)

该课程有 3 种修读方式：

- (1) 参加大创项目并顺利结题，申请学分转换；
- (2) 发表论文、竞赛获奖、申请专利等，申请学分转换；
- (3) 修读创新创业类的相关课程以替换本课程学分，申请学分转换，且选择替换的创新创业类课程学分将不能再用于通识通修课学分

注：（1）申请学分转换，请填写南方科技大学本科生创新学分认定申请表。

（2）创新学分认定申请表中的创新项目类型“科研活动及其它”包括：①主持或参与广东省“攀登计划”项目；②学生创业项目（如创客、创业等）；③学生可以证明其参与且经过指导老师认定的科研、创新活动或项目；④修读创新创业类的相关课程（2 学分）替换该课程学分。

This course may be passed by the three following ways:

- (1) Participating in Undergraduate Research Opportunities Programs, and applying for credit transfer;
- (2) Publishing papers, obtaining awards from contests, filing patents, etc., and applying for credit transfer;
- (3) Pursuing the relevant courses of the innovation and entrepreneurship class to replace the credits of this course, and applying for credit transfer. The credits of the selected replacing course will no longer be used for general education credits.

Notes: (1) To apply for credit transfer, please fill out the application Form for Undergraduate Innovation Credits of Southern University of Science and Technology.

(2) The types of innovative projects “scientific research activities and other” in the application form for innovative credit recognition includes: 1) hosting or participating in Undergraduate Research Opportunities Programs in Guangdong Province; 2) student entrepreneurship projects (such as Maker, entrepreneurship, etc.); 3) participating in professors’ research project; 4) pursuing the relevant courses (2 credits) for the innovation and entrepreneurship class to replace the credits of the course.

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

无 NA



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)	100		

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

