

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	工业实习 Industrial Practice				
2.	授课院系 Originating Department	材料科学与工程系 Department of Materials Science and Engineering				
3.	课程编号 Course Code	MSE470				
4.	课程学分 Credit Value	4				
5.	课程类别 Course Type	专业基础课 Major Foundational Course				
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)	何祝兵，材料科学与工程系，电子邮箱：hezb@sustc.edu.cn 叶飞，材料科学与工程系，电子邮箱：yef3@sustc.edu.cn Zhubing He, Department of MSE, Email: hezb@sustc.edu.cn Fei Ye, Department of MSE, Email: yef3@sustc.edu.cn				
9.	实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact	无 NA				
10.	选课人数限额(可不填) Maximum Enrolment (Optional)	无 NA				
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			128		128

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	无 NA
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

材料科学与工程专业是与工程技术密不可分的应用科学，生产实习是实践教学的重要环节。通过在与材料相关的企业实践，使学生了解和掌握与材料工程相关的生产和管理知识，巩固和丰富已学习的专业基础课程内容，培养学生理论联系实际的能力，提高学生在工程实际中观察问题、分析问题以及解决问题的能力和方法，同时了解企业的生产方式、制造技术和管理模式。

Material science and engineering is a specialty that closely relate to engineering technology. Industry practice is an important part of practical teaching. Through practice in enterprises related to materials, students will understand and master the knowledge of production and management of materials engineering, consolidate professional knowledge, cultivate the ability to integrate theory with practice, improve the ability to analyze and solve problems. At the same time, the students will understand the mode of production of enterprises, manufacturing technology and management mode.

16. 预达学习成果 Learning Outcomes

1. 了解实习单位的组织机构和生产组织管理情况。
2. 理解工程实践中的工程职业道德和规范，并能够在实习过程中履行并遵守。
3. 了解传统材料工业生产的流程，以及新材料、新技术、新工艺的设计与研发的过程，以及这些工程活动对社会的影响。
4. 了解零部件和产品的质量检验与管理规程。
5. 了解生产、设计、质量检验和管理等方面的过程以及相关的法律法规。
6. 能够在实习阶段对生产实践内容做好总结和计划，并形成最终实习报告。

1. To understand the organization and manufacture management of the internship unit.
2. To understand engineering ethics in engineering practice, and comply with them during the internship.
3. To understand the manufacture process of traditional materials industry, as well as the design, research and development of new materials, new technologies and new processes, and the impact of these engineering activities on society.
4. To understand the quality inspection and management procedures of parts and products.
5. To understand the process of production, design, quality inspection and management as well as relevant laws and regulations.
6. To summarize the practice in the internship, and form the final internship report.

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.)

材料相关的企业实习，包括材料系统统一安排单位，学生根据自身情况和兴趣联系的单位。实习内容与方法由实习单位与指导老师共同决定，并编制具体实习大纲，应体现材料科学与工程专业课程知识内容的应用与实践。

Internship in a material related company. The company can be arranged by the department of materials science and engineering, or arranged by students themselves according to their own situation and interests. The content and method of the internship are decided by the internship unit and the instructor together. The specific internship outline should be compiled to reflect the application and practice of the knowledge of material science and engineering.

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		20		
实习表现 Performance		30		
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		50		
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

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