

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	机械工程专业认知实习 Awareness Practice of Mechanical Engineering				
2.	授课院系 Originating Department	机械与能源工程系 Department of Mechanical and Energy Engineering				
3.	课程编号 Course Code	MES300				
4.	课程学分 Credit Value	1				
5.	课程类别 Course Type	专业选修课 Major Elective Course				
6.	授课学期 Semester	夏季学期 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)	融亦鸣 机械与能源工程系 88018166 Yiming Rong Department of Mechanical and Energy Engineering 88018166				
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 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	20	12		32	20

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	
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**

对机械工程专业有认知性了解。
Aware understanding to Mechanical Engineering.

16. **预达学习成果 Learning Outcomes**

了解机械专业的学习内容和研究方法，感受团队合作，解决实际问题。
Understanding the contents and research methods of Mechanical Engineering. Cultivating engineering practice and problem-solving ability, and improving the level of teamwork.

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.)

组 1.参加南科大-圣母大学工程实践项目，中美学生混合编组，分别做 GE-Health Care 和 Timken 公司的课题。了解工业实际，项目过程，团队合作，以及技术研究。（深圳，上海）
组 2.参加清华-华辰智能制造科研团队，了解科研的问题，公司运作，科研过程。（昆山）
组 3.参加清华大学机械工程系机器人研究团队，进行行走机器人的研究。（北京）
组 4.参加清华大学机械工程系金属材料加工科研团队，了解金属材料性能控制方法及其在工业中的应用。（北京）
Group 1: SUSTech - the University of Notre Dame engineering Practice Project. Students mix into China and the US to do the subject of E-Health Care and Timken. (In Shenzhen, Shanghai)
Group2: Tsinghua University - Huachen Manufacturing Engineering Team. Understanding the company's operation and the scientific research. (In Kunshan)
Group3: Tsinghua University Robotics Research Team. Get to know the research of the walking robot. (In Beijing)
Group4: Tsinghua University Metal Materials Processing and Scientific Research Team. Get to know the metal material performance control method and its application in industry. (In Beijing)

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

无。
None.

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				
小测验 Quiz				
课程项目 Projects	期末评估 The final assessment	40		
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)**

期末评估 The final assessment	50		

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