

上海交通大学研究生课程开设申请表

New Graduate Course Application Form, SJTU

课程基本信息 Basic Information					
*课程名称 Course Name	(中文 Chinese) 高能束成形原理、工艺和装备				
	(英文 English) ! ! ! ! ! ! ! !				
*学分 Credits	2	*学时 Teaching Hours	32 (1 学分 16 课时)		
*开课学期 Semester	秋季学期 Fall	*是否跨学期 Cross-semester?	否 No	跨 Spanning over 个学期 Semesters (含夏季学期)。	
*课程性质 Course Category	专业课 Specialized Course	*课程分类 Course Type	全日制课程 For full-time students		
*授课语言 Instruction Language	中文 Chinese	主要授课方式 Teaching Method	课堂教学 In class teaching		
*成绩类型 Grade	等第制 Letter grading	主要考核方式 Exam Method	其它 Other		
*开课院系 School	材料科学与工程学院				
所属学科 Subject					
负责教师 Person in charge	姓名 Name	工号 ID	单位 School	联系方式 E-mail	
	王洪泽		材料科学与工程学院	hz.wang@sjtu.edu.cn	
课程扩展信息 Extended Information					
*课程简介 (中文) Course Description	<p>以高能束成形为代表的新型加工模式，正在改变传统的制造业，引领制造业发生变革。《高能束成形原理、工艺和装备》课程是一门非常重要的研究生专业选修课程，重点聚焦典型的高能束成形装备、高能束成形关键技术、及其工艺方法。高能束成形装备重点介绍电子束、等离子束和激光束等典型高能束发生器及其成形装备。高能束成形关键技术重点介绍的典型高能束增材、焊接、塑性加工、去除装备的特点。高能束成形工艺方法主要介绍典型的高能束成形结构工艺设计方法。</p>				
*课程简介 (English) Course Description	<p>The emerging high-energy beam manufacturing technology is changing the conventional manufacturing mode and leading the latest evolution in manufacturing. This course is optional for the graduate student interested in high energy beam manufacturing. The main contents of this course include the key processing systems, mechanism of the typical processing technologies, and processing methods. The key processing systems include laser system, electron beam system and plasma system. The typical processing technologies include fusion technology, plastic processing technology, removing material technology, and so on. Besides, the detailed procedure to conduct high-energy beam manufacturing will also be introduced. This course will also discuss the monitoring and feedback control technology in high-energy beam manufacturing.</p>				
*教学大纲 (中文) Syllabus	!	!	!	!	!
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备注 Note	
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