085500 机械（085500）全日制硕士培养方案

2020 Full-time International Master Program for International Industrial Design Engineering

一、 **Basic Information**

School	School of Design		Grade	2020
Major	Mechanical Engineering			
Program Type	Master			
Min Credit	30	**Min GPA Credit**	24	**Min GPA**	

二、 **Introduction**

This discipline of design was first established in 1986, starting to enroll graduate students in 1999, one of the very first in China. It specializes in fusing major innovation, training high-end designers, building integrated design and research platform.

The department has 20 Graduate tutors, includes 7 professors, 8 Doctor's tutors, and most of the teachers hold a doctor's degree in design. Our department of Design is a hub for innovation at SJTU. Students and faculty in engineering, art, design, humanities, sciences and education areas find their ways here to solve the fuzzy front-end problems.

Our department has abundant collaborations with governments and enterprises, as well as schools inland and abroad, forming an effective system of cultivating talents. Graduates usually go to high-end manufacturing, telecom, design companies, government, and some start their own business.

三、 **Program Objective**

This program aimed at answering the growing needs of high-end equipment design, intelligent manufacturing, new media and digital innovation. It focus on three areas: design and intelligent technology, design and social change, design and lifestyle. Through practical curriculum construction, advanced experts from industry and comprehensive education resources, it cultivates high-end design professionals who can work and act with a global view.

四、 **Training Mode and Study Duration**

This is a full-time master program with the normal length of 2.5 years. Students are required to take at least 30 credits in total, with a minimum requirement of 19 GPA counted. Normally students should finish all courses except thesis course in the first 3 semesters. Each semester a student could enroll in a maximum of 15 credits.

五、 **Course Requirement**

Course Type	Min Credits	Min GPA Credit	Note
General Courses	6	6	
Program Core Courses	3	2	
Program Advanced Courses	8	8	
Program Elective Courses	8	8	

六、**Training Requirement**

This program required students to participate in design practice and competitions. Students should finish their graduation thesis and approved by an academic committee composed of school teacher and professional tutors.

七、**Requirement on Academic Achievements**

This course require students participate in practical projects and international competitions. Students should have registered patent, or award, or in-production design. This is a thesis program, students are quired to finish graduation thesis.

八、**Thesis/dissertation work**

The thesis should focus on the issues in the field of design, be in tune with the development of related disciplines, meet the standards of academic writing, and fully demonstrate the students' creativeness and capacity in design practices. Also, the thesis must be written independently by the students under the guidance of supervisors. It should be submitted before the final oral defense and reviewed by 2 peer professors. Some thesis will be picked randomly for Blind Review and sent to other universities for reviewing.

The oral defense for graduation thesis has two steps: pre-oral defense and final oral defense.

1) Pre-oral defense usually happens in early 5th semester. It is set to for the committee to exam the work if it meets the standard of graduation. The committee consists of 3-5 professors and professional tutors with supervisors excluded. Pre-oral defense should take place with the supervisors' permit. Only after passing the pre-oral defense can the student attend the final oral defense. If students fail, they should be given a second chance to attend another round of pre-oral defense. If they fail again, the graduation process will postpone to next year.

2) The final oral defense usually happens in late 5th semester. Students should finish their thesis in prior to the defense, get the permit from supervisors and prepare to

meet the academic committee's evaluation. If they fail, the graduation process will be postponed to next year.

After passing the oral defense and evaluation by the committee, the students will be issued a graduation certificate of Master program of International Industrial Design Engineering and a diploma of Master of Engineering in Design.

九、**Courses**

课程类别 Category	课程代码 Course Code	课程名称 Course Name		学分 Credit	授课语言 Language	开课学期 Semester	是否必修 Compulsory	可以计算 GPA	必须计算 GPA	备注 Note
		中文 Chinese	English 英文							
公共基础课 General Courses	CHN0916	中国文化概论	Introduction to Chinese Culture	2	中文	春秋季	否	是	是	留学生必修
	CHN6207	汉语	Chinese	4	中文	春秋季	否	否	否	留学生必修
	MARX6001	中国特色社会主义理论和实践研究	The Theory and Practice of Socialism in China	2	中文	春秋季	否	是	是	中国籍学生必修
	MARX6003	自然辩证法概论	Introduction to Dialectics of Nature	1	中文	春秋季	否	是	是	中国籍学生必修
	GE6001	学术写作、规范与伦理	Scientific Writing, Integrity and Ethics	1	英文	春季	是	是	是	
	FL6001	学术英语	English for Academic Purposes	2	英文	春秋季	是	是	是	
专业基础课 Program Core Courses	DES8009	用户研究	User Study	2	英文	秋季	否	是	是	
	GE6011	学术报告会	Academic Lectures	1	英文	秋季	是	否	否	
专业前沿课 Program Advanced Courses	DES6002	创新设计思维	Creative Design Thinking	4	英文	秋季	否	是	是	
	DES6104	赋能设计	Design for Augmented Intelligence	4	英文	秋季	否	是	是	
	DES6003	用户体验与服务设计	User Experience & Service Design	4	英文	春季	否	是	是	
专业选修课 Program	DES8016	设计哲学和方法论前沿课题	Advanced Topics on Design Philosophy and Methodology	2	英文	秋季	否	是	否	

Elective Courses	DES8106	智慧出行设计	Intelligent Mobility Research and Design (IMRD)	2	英文	秋季	否	是	否	
	DES8007	为生活设计	Design and Way of Living	2	英文	春季	否	是	否	
	DES8008	艺术形态	Art Form	2	英文	春季	否	是	否	
	DES8104	泛娱乐智能设计	Pan-Entertainment Intelligent Design	2	英文	春季	否	是	否	
	DES8105	互联网产品设计	Web Product Design	2	英文	春季	否	是	否	
	DES8006	设计战略与管理	Design Strategy & Management	2	英文	夏季	否	是	否	
	DES8205	智能与交互设计	Intelligent Interaction Research	2	英文	夏季	否	是	否	