

Information Form for SJTU Graduate Profession Courses

Basic Information				
* Course Name	Chinese			
	English			
* Credits	2	* Teaching Hours	32 1 =16	
* Semester	Fall	* Cross-semester?	No	Spanning over Semesters
* Course Type	Program Elective Course	* Course Type	Both full & part time students	
* Course Category	Specialized Course	Targeting Students	All graduates	
* Instruction Language	Chinese	Teaching Method	In class teaching	
* Grade	Letter grading	Exam Method	Essay	
* School				
Subject				
Person in charge	Name	ID	School	E-mail
				junwang@sjtu.edu.cn
Extended Information				
* () Course Description	200			
	TRIZ	MSA		
* English Course Description				

<p>* () Syllabus</p>	
<p>* English Syllabus</p>	<p>General process of scientific research: information retrieval and literature reading: 2 class hours General process of scientific research: topic selection, 2 class hours General process of scientific research: observation and analysis, 2 class hours Performance theory of material research, 3 class hours Structure theory of material research, 3 class hours Process theory of material research, 3 class hours Energy theory of material research, 3 class hours Basic ideas of ecological materials: 2 class hours / discussion Experiment design method, 2 class hours teaching / discussion MSA and experimental data analysis, 2 class hours teaching / discussion Discussion of process control and evaluation,2 class hours teaching / Genome development and material research,2 class hours teaching / discussion TRIZ, reverse engineering and innovation, 2 class hours teaching / discussion Course examination</p>

* Requirements	50
* English Requirements	
* Resources	
* English Resources	Methodology of materialogy An introduction to scientific method -the art of scientific research Theory & method of creating and inventing on material
Note	