

* Course Name	Chinese		
	English Automatic Control of Materials Processes		
* Credits	2	* Teaching Hours	32 Course

			For full-time students	
* Course Category	Specialized Course	Targeting Students	Master Level	
* Instruction Language	Chinese	Teaching Method	In class teaching	
* Grade	Letter grading	Exam Method	Other	
* School				
Subject				
Person in charge	Name	ID	School	E-mail
				Wang-ellen@sjtu.edu.cn
* () Course Description	200 MATLAB			
* English Course Description	<p>“Automatic Control of Materials Processes” is basic course for Master degree students of Materials science and engineering, also is elective course for school of mechanical engineering. The basic task of the course is on the base of study basic theory of automatic control, taking into account the demand and characteristics of materials processes, learning the method of analyzing and designing automatic control system used in this field. The main content of this course contain: such as the time-domain methods, root locus methods and frequency domain methods, design of control systems, design methods and application examples of automatic control systems for materials processes. The application of MATLAB in automatic control systems design is introduced.</p>			

* () Syllabus	/			
			2	+
	/		6	
	/		4	+
	/	:	2	
	/		2	
	/	PID	4	/
	/	MTLAB Matlab	6	
	/		2	
	/		4	/

* English Syllabus	
* Requirements	<p>1 50%</p> <p>2 MATLAB 50%</p> <p>50</p>
* English Requirements	
* Resources	<p>1 2001. 9</p> <p>2 2007. 10</p> <p>3 2010. 7</p> <p>3 1989. 2</p>
* English Resources	
Note	