Information Form for SJTU Graduate Profession Courses

Basic Information				

Extended Information				
	Contents: **Targets:**			

	1h **23h** **1** 3h 1.1 1.2 1.3 1.4 1.5 **2** 6h 2.1 2.2 2.3 **3** 6h 3.1 3.2 3.3 3.4 **4** 8h 4.1 4.2 4.3 4.4 4.5 4.6 4.7 **24h** **5** 3h 5.1 5.2 5.3 5.4 **6** 9h 6.1 6.2 6.3 6.4 **7** 9h 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 **8** 3h 8.1 8.2 8.3

Part 1 Deformation and Strengthening of Materials

1 Elastic Deformation

2 Basics of Dislocation Theory

3 Plastic Deformation in Crystals

4 Principals of Strengthening

Part 2 Fracture and Toughening of Materials 24h

5 Basics of Fracture

6 Fracture Mechanics

7 Physics of FDracture

8 Principles of Toughening

	1	1990
	2	Thomas H Courtney Mechanical Behavior of Materials 2004
	3	1988
	4	1983
	5	1980
	Strength of Materials ***Mechanical Behavior of Materials*** ***Dislocations and Strength of Materials,*** ***The Mechanisms and Theories on Mechanical Behavior of Metals*** ***Toughness and Toughening of Metals***	