



	<p>and explain the skills of software programming. The algorithm involves several key technologies in CAD/CAM/CAE in plastic forming technology, and the students will be able to realize many of them by their own programming.</p> <p>So that the students can achieve the following aims. (1) Master the key technologies of CAD/ CAM/CAE in plastic forming; (2) Have a deeper perceptual understanding of the software involved in the engineering field; (3) Master the basic programming skills and be able to realize several algorithms in plastic forming technology.</p>			
* ( ) Syllabus	Content		Hours	Format
	OpenGL		2	
	Bezier Bezier		6	
	B B B NURBS		6	
			2	
			4	
	CAE CAE CAE		6	
	CAE		2	
	O		2	
	CAD CAD		2	
	* English Syllabus	Introduce the development of computer-aided technology and corresponding software in China; Graphics transformation technology and OpenGL.		2
Introduce geometric modeling methods. Explain the following concepts: Spline curve and Coons spline surface; Bezier spline curve, its properties and its advantages and disadvantages; the method of Bezier spline geometry drawing; Bezier splines surfaces. Draw the Bezier curves and surfaces.		6	Classr oom	
Explain the following concepts: B-spline curve and surface construction, NURBS curve and surface. Draw the B-spline curve and surface.		6	Classr oom	
Explain surface modeling technology, surface intersection and surface cutting.		2	Classr oom	

	Introduce the development of NC machining, NC machine tools and NC machining process; surface offsets; NC programming technology. Draw the NC tool path.	4	Classr oom
	Introduce CAE technology and surface triangulation discrete technology; the technology of CAE visualization. Explains the method of contour generation in CAE visualization; the visualization and dynamic display technology of scientific data. Draw the isolines to show dynamic visualization data.	6	Classr oom