

GENERATIVE SHAPE DESIGN

Course Code	EDU-CAT-GSD
Version et Release	CATIA V5R19, V5R20, V6R2012
Duration	2 days
Prerequisite	Experience in mechanical drawing

Course Description

This course is a complement of CATIA intermediate surfacing which makes it possible to create complex surface construction elements using advanced tools from the Generative Shape Design module. This course also makes it possible to better understand the surface methodology possibilities.

Proficiency Target

The scope of this course is to create, analyze and repair advanced wireframe and surface elements

General Objective

The student will be able to use a very powerful tool which will enable him/her to create wireframe and surface components and convert them to solid 3D parts or associate them with already existing solid parts.

Course Outline

- Creation of advanced wireframe entities
- Curve analysis
- Repair and smoothing of curves
- Creation of advanced swept surfaces
- Creation of swept surfaces with variable section
- Creation of advanced smooth surfaces
- Creation of surface round-offs
- Use of rules to define and control the surface geometry
- Tools for recovery in the "Generative Shape Design" module
- Surface analysis
- Surface repair