

# Design Optimization Process for 3D Printed Designs

- Is your organization ready to unleash the full potential of Additive Manufacturing?
- A two day course on *Design Optimization Process for 3D Printed Designs*
- Learn how to:
  - Create in CREO parametric 2 ½ D and 3D Lattice Features
  - Learn how to size and generate Lattice Structures
  - Optimize Lattice Structures using Behavioral Modeling
  - Use topology optimization to find the best distribution of material for stiffness or compliance with *homogenization techniques*
  - How to reconstruct the CAD geometry from the Topology Optimization results (*Nurbification*)
  - Design for additive manufacturing and practice the validation and verification steps required for Aerospace & Defense applications
  - Use topology optimization for light weight heat exchangers
  - Synthesize *Metamaterials* using Topology Optimization & Lattices
  - Utilize Best Design Practices and Manufacturing Guidelines

