Design Process Overview
Flowchart

Provided by Dr. Gary Kinzel, OSU

ME · IWSE

GATEWAY

Iterative Conceptual Design Process

Perceived Need
→ Market Research
→ Specifications

Feasibility Study
→ Conceptual Design

Analytical Design
→ Detail Design

Prototype Testing
→ Tooling Design
→ Manufacture

CAE

CAD

CAM
Design Process Overview:
Importance of design decisions early in the design process

Cost Impact of Decisions

Product Decisions

Production Decisions

Production Optimization

Concept Development | Detail Design | Production Planning | Manufacturing

Reference: Product Design Methods and Practices, Stoll

Sr. Design, Dr. Kremer