ITERATIVE DESIGN PROCESS FLOW CHART

Problem Definition
- Information gathering, understanding the customer needs.
- Problem definition, setting goals and objectives, establishing criteria.

Conceptual Design (High level alternatives)
- Idea generation, developing concepts
- Evaluate, test, and analyze the ideas and alternatives
- Decision making, “down selecting”

Project Planning
- Identify required resources (skills, facilities, tools, etc.)
- Create Statement of Work (SOW)
- Create a schedule and budget

(To Parametric Design)

Parametric Design (basic size, shape, material, etc.)
- Information gathering, understanding the customer needs.
- Problem definition, setting goals and objectives, establishing criteria.
- Idea generation, developing concepts
- Evaluate, test, and analyze the ideas and alternatives
- Decision making, “down selecting”

Detail Design (specific dimensions and tolerance)
- Evaluate effects of variability
- Prototype and testing
- Implementation or production of design
- Process review