

Engineering Design II

Lecture 4. Engineering Design

BME 494

Engineering Design

- Introduction
- Process of Planning and Designing
- Methods for Creating and Evaluating Solutions
- Finalizing the Task and Product Planning
- Conceptual Design
- Embodiment Design

Introduction

- Introduction
 - The scope of design
 - The necessity for systematic Design
 - Project proposal preparation
 - Project management

Process of Planning and Designing

- Process of Planning and Designing
 - General problem-solving process
 - Flow of work during the planning process
 - Flow of work during the designing process

Methods for Creating and Evaluating Solutions

- Methods for Creating and Evaluating Solutions
 - Solution finding methods
 - Selection methods
 - Evaluation methods

Finalizing the Task and Product Planning

- Finalizing the Task and Product Planning
 - Product planning
 - Classifying the task

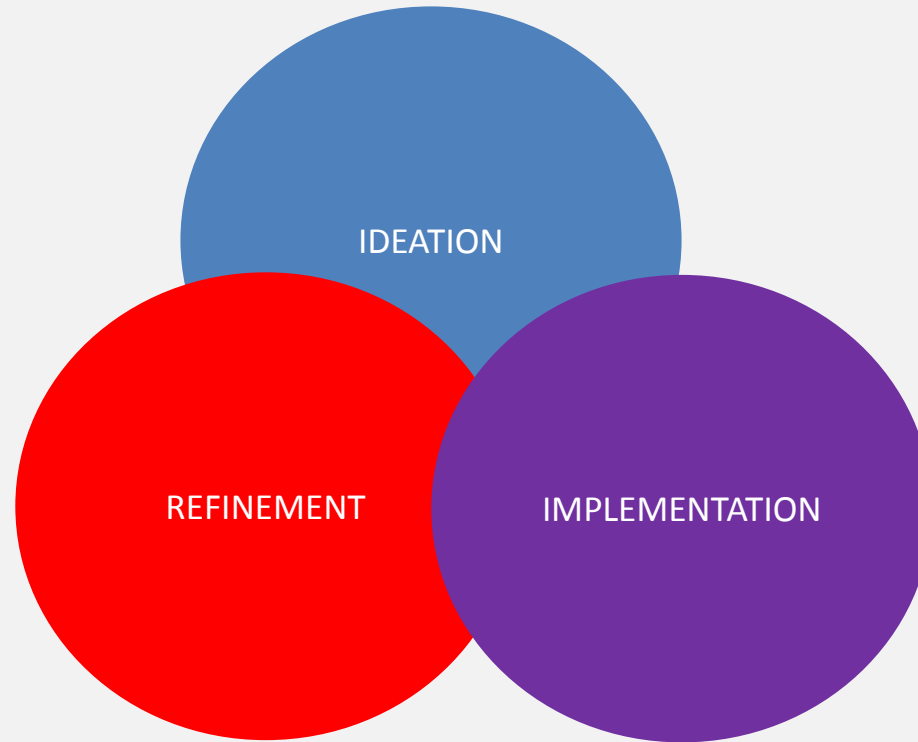
Conceptual Design

- Conceptual Design
 - Steps of conceptual design
 - Finding essential problems by abstracting
 - Establishing structures of functions
 - Concept development

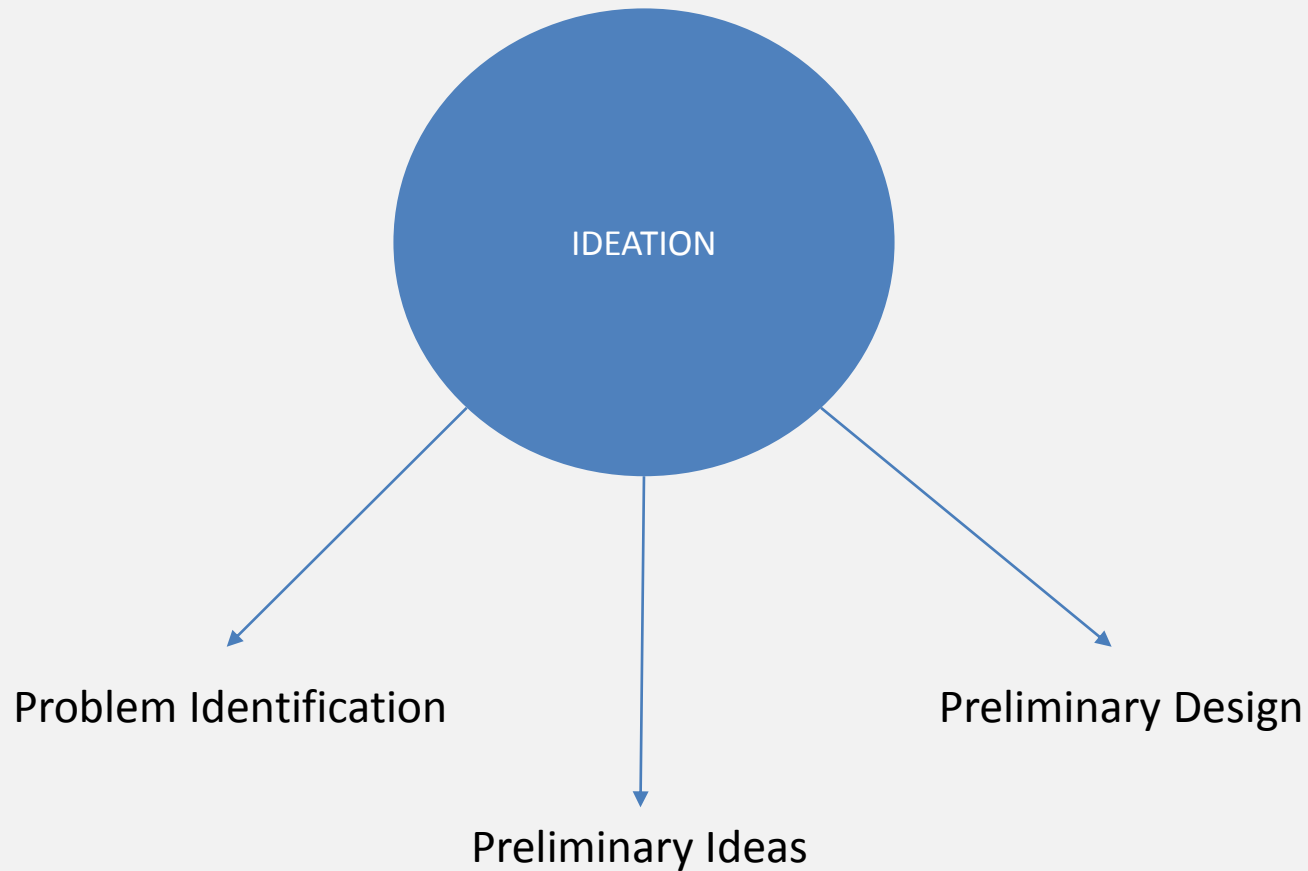
Embodiment Design

- Embodiment Design
 - Steps of embodiment design
 - Checklist for embodiment design
 - Rules of embodiment design

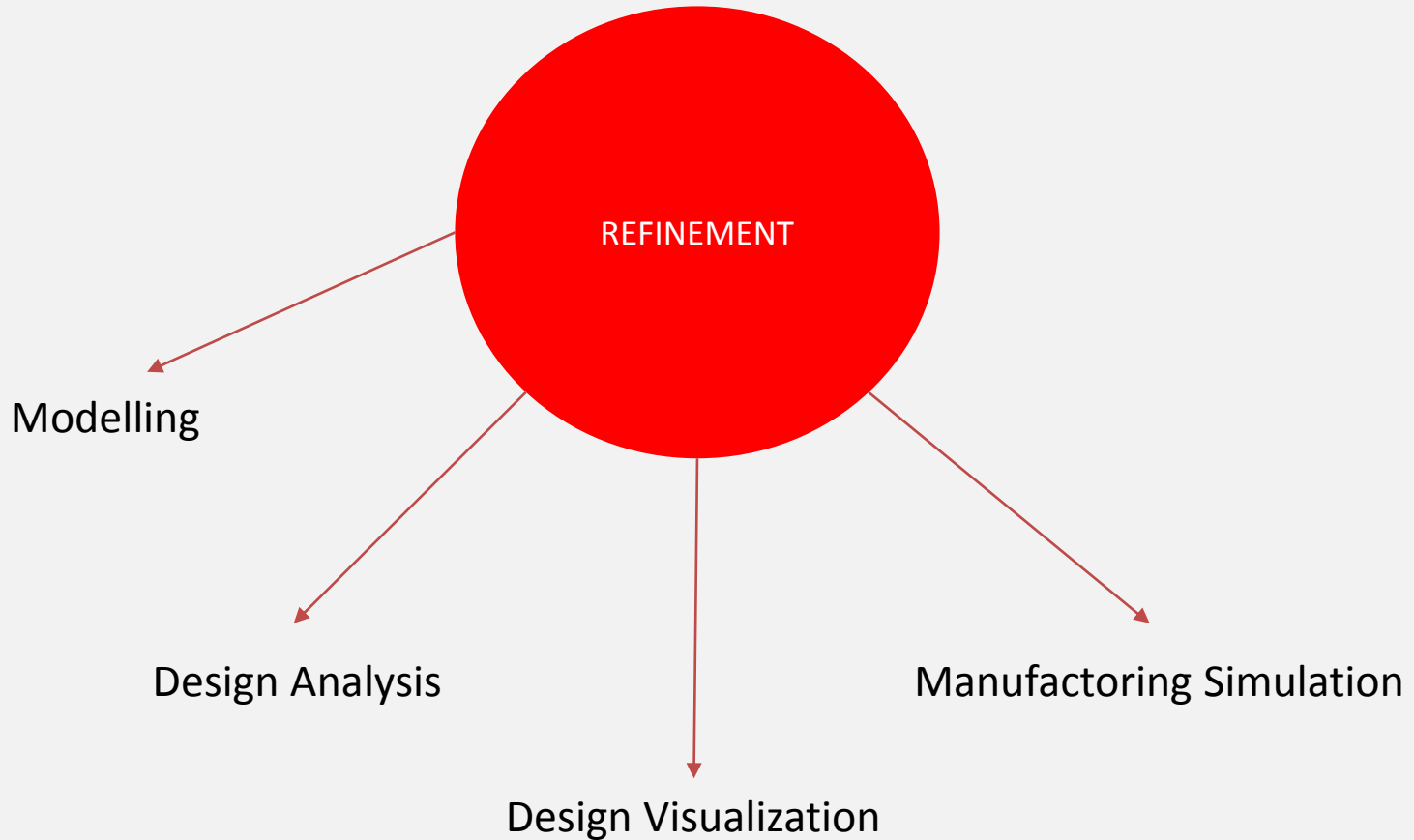
Concurrent Engineering Design



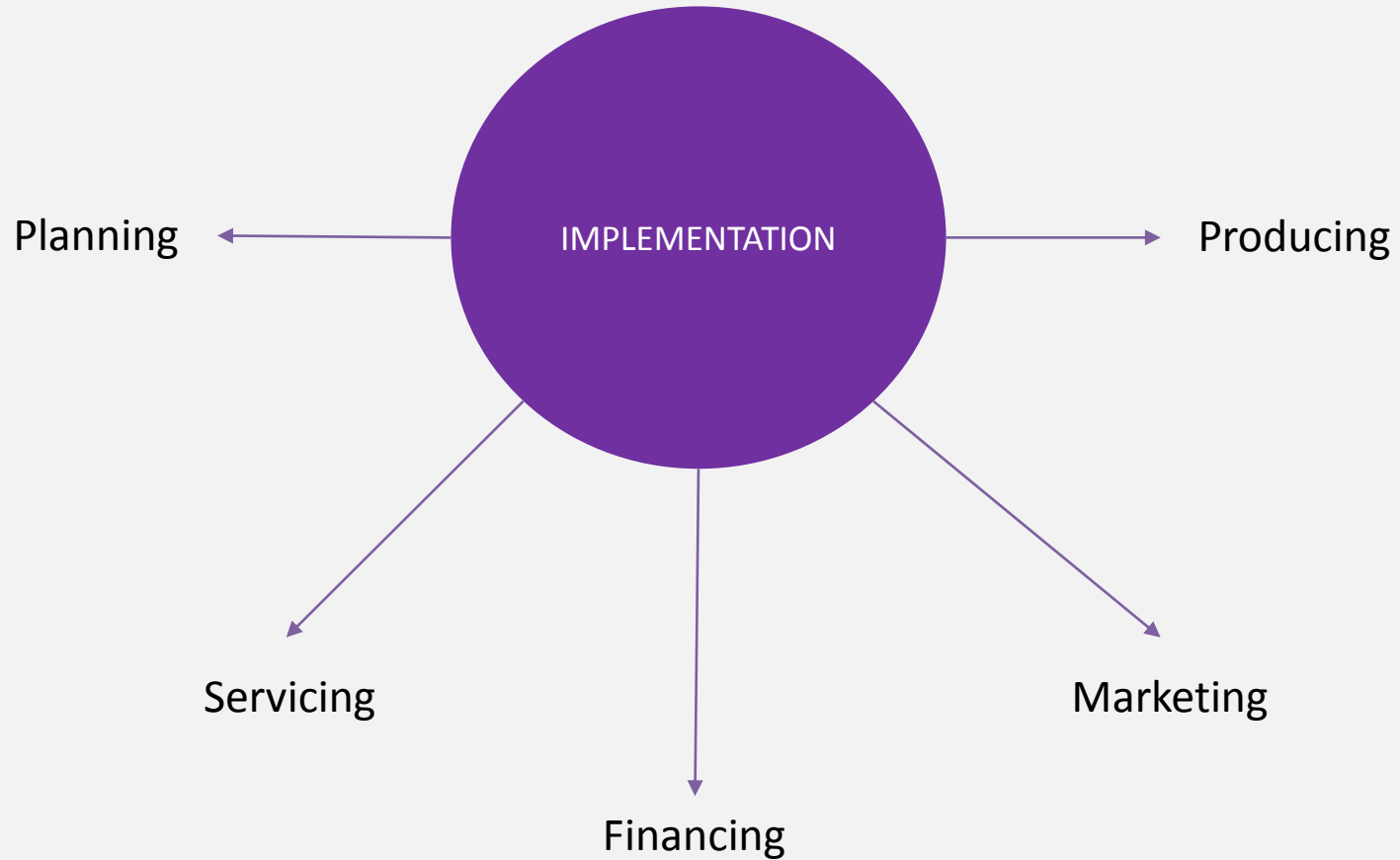
Concurrent Engineering Design



Concurrent Engineering Design



Concurrent Engineering Design



Questions?
