SNS COLLEGE OF TECHNOLOGY

Coimbatore-35.

An Autonomous Institution

COURSE NAME : 19CST201 AGILE SOFTWARE ENGINEERING

II YEAR/ III SEMESTER

UNIT – I INTRODUCTION TO SOFTWARE ENGINEERING

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The Nature of Software -Software Engineering - Software engineering Practice – Process Models: Generic – Prescriptive – Specialized - United Process - Personal and Team Process Models - Process Technology-Understanding Requirements-Design concepts & model-Software quality concepts & Review metrics.

Software Process Model

- It’s a development strategy designed to solve an actual problem in an industry settings
  - Generic process model
  - Prescriptive process model
  - Specialized process models
  - The unified process
  - Personal and team process models

Generic Process Framework

A generic process framework for software engineering encompasses five activities:

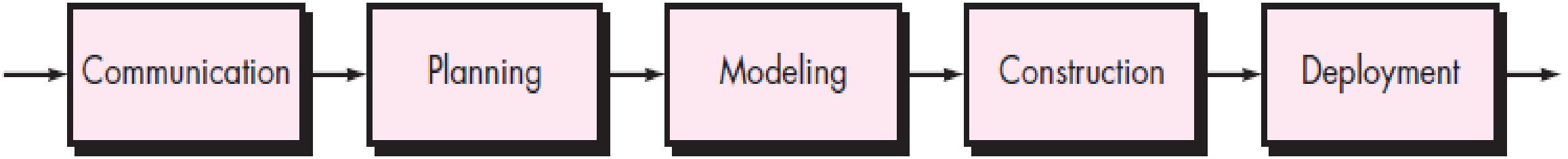
- **Communication**
- **Planning -** software project plan—defines the software engineering work by describing the technical tasks to be conducted, the risks that are likely, the resources that will be required, the work products to be produced, and a work schedule.
- **Modeling -** creating models to better understand software requirements
- **Construction -** combines code generation and the testing
- **Deployment**

Process Flow

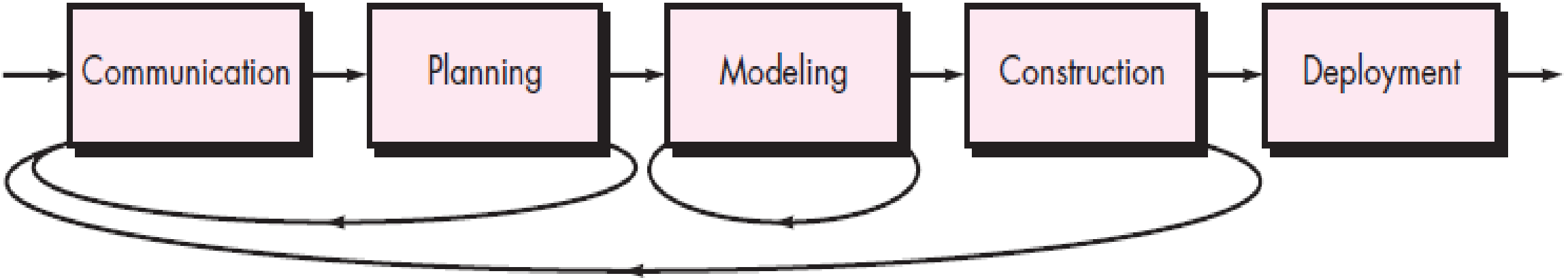
There are four types of process flow they are:

1. **Linear process flow -** executes each of the five framework activities in sequence
2. **Iterative process flow -** repeats one or more of the activities before proceeding to the next
3. **Evolutionary process flow -** executes the activities in a “circular” manner
4. **Parallel process flow -** executes one or more activities in parallel with other activities

Process Flow

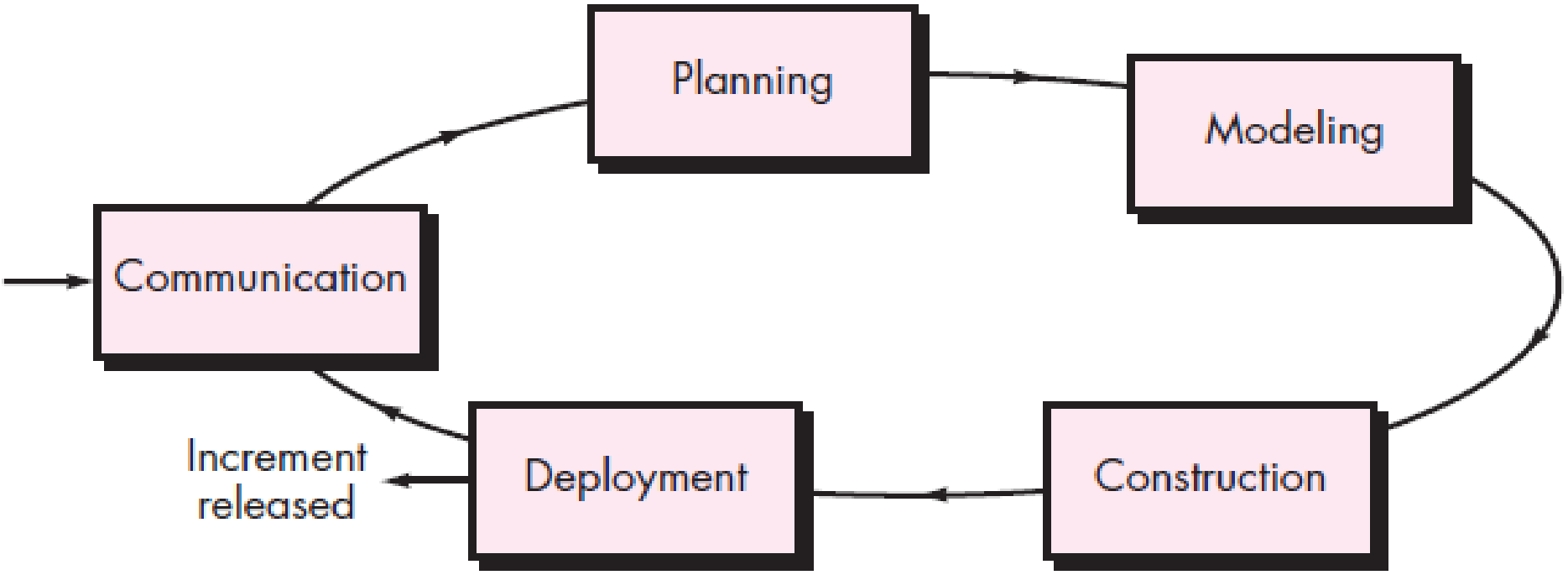


(a) Linear process flow



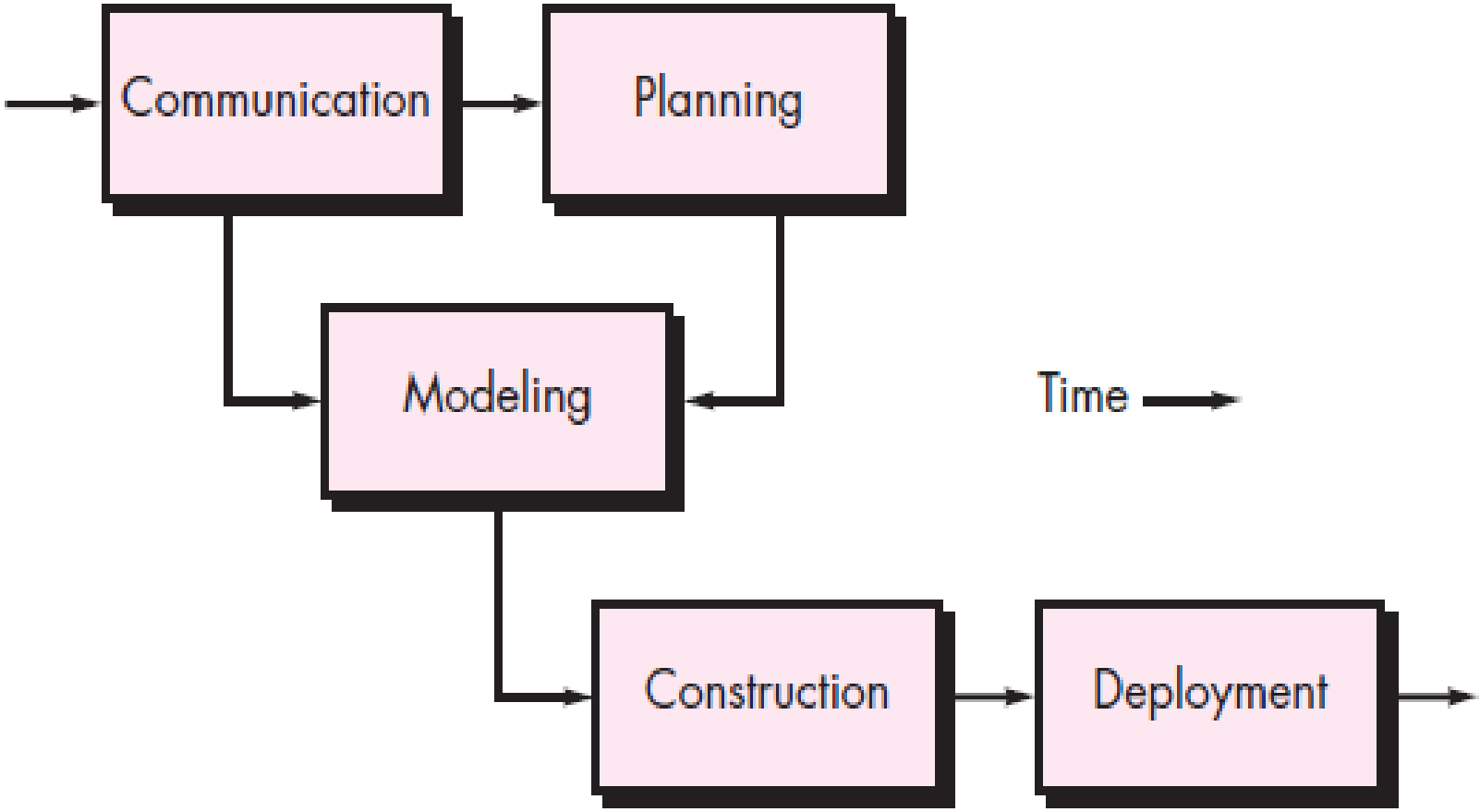
(b) Iterative process flow

Process Flow



(c) Evolutionary process flow

Process Flow



(d) Parallel process flow


Thank You!