



BITS Pilani

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Object Oriented Analysis & Design Module-1 (RL 1.2.2)

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UP : An Iterative & Evolutionary Development

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- The iterative lifecycle is based on the successive enlargement and refinement of a system through multiple iterations with feedback and adaptation.
- The system grows incrementally over time, iteration by iteration.
- The system may not be eligible for production deployment until after many iterations.

UP: An Iterative & Evolutionary Development



- The output of an iteration is not an experimental prototype but a production subset of the final system.
- Each iteration tackles new requirements and incrementally extends the system.
- An iteration may occasionally revisit existing software and improve it.

UP: An Iterative & Evolutionary Development



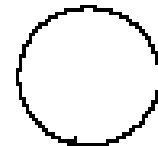
[iteration N]

Requirements – Analysis - Design- Implementation - Testing



[iteration N+1]

Requirements – Analysis - Design- Implementation - Testing



Feedback from iteration N leads to refinement and adaptation of the requirements and design in iteration N+1.

The system grows incrementally.

Embracing Change



- Stakeholders usually have changing requirements.
- Each iteration involves choosing a small subset of the requirements and quickly design, implement and testing them.
- This leads to rapid feedback, and an opportunity to modify or adapt understanding of the requirements or design.