SYSTEMS ANALYSIS NOTES

Systems Analysis studies business problems to design solutions. It focuses on gathering requirements, analyzing needs, and modeling systems.

SDLC (System Development Life Cycle):

- Planning: Identify problems and opportunities.
- Analysis: Gather and interpret requirements.
- Design: Create models and specifications.
- Implementation: Develop and install the system.
- Maintenance: Monitor and improve.

FEASIBILITY STUDY:

- Technical: Do we have the tools?
- Economic: Is it cost-effective?
- Operational: Can users adapt?

DATA GATHERING METHODS:

- Interviews, surveys, observation, documentation review.

DIAGRAMS:

- Context Diagram: Defines system boundary.
- DFD: Shows flow of data and processes.
- Use Case Diagram: Interaction between users and system.
- Activity Diagram: Sequence of workflows.

REQUIREMENTS:

- Functional: What the system does.
- Non-functional: Performance, usability, security.

APPROACHES:

- Prototyping and RAD for fast delivery.

Tip: Always separate business needs from technical solutions.