

# LECTURE-9

# VLSI Design Methodologies

➤ Semi-Custom Design

➤ Full-Custom Design

# VLSI Design Flow

- VLSI Design flow in three domains
- Behavioural representation
- Logic representation
- Circuit representation
- Layout representation

# VLSI Design Hierarchy

- Regularity
- Modularity
- Locality

# VLSI Design Styles

- Field Programmable Gate Array
- Gate Array Design
- Standard Cells Based Design
- Full Custom Design

# VLSI Design Quality

- Testability
- Yield and manufacturability
- Reliability
- Technology updateability