

Digital Design Technologies

Aim

- Introduce and compare IC technologies

Topics covered

- Introduction to ICs
- Introduction to FPGAs
- Technology-specific features and considerations
- Choosing a technology

Design Practices

Aim

- To introduce design techniques and best practices

Topics covered

- Expressing logic using HDLs
- Managing complex designs

Introduction to VHDL

Aim

- Provide a brief introduction to VHDL

Topics covered

- Entities and architectures
- `std_logic` and `std_logic_vector`
- Processes and concurrent signal assignments
- Hierarchy
- Test benches