

# Contents

- ✦ ***Introduction***
- ✦ ***VHDL basics***
- ✦ ***Concurrent structures***
- ✦ ***Applications of the concurrent structures***
  - decoders, parity checkers, multiplexers, arithmetic logic units, tri-state outputs, bi-directional inputs/outputs
- ✦ ***Sequential structures***
- ✦ ***Applications of the sequential structures***
  - latches, registers, counters
- ✦ ***State machines***
- ✦ ***Modularity and parameterization of modules***
- ✦ ***Testbenches***