



MASTERCLASS IN DIGITAL INTEGRATED CIRCUIT DESIGN USING VHDL

COURSE DESCRIPTION:

Digital circuits are generally designed from a top-down approach and any digital integrated circuit often has millions of logic cells and connections on one single chip. Controlling all of these logic and connections as well as fabricating these Integrated Circuits usually involves the use of special design software (EDA). Mapping out all of these connections by hand would take years but the software can actually develop digital integrated circuits through special generation.

This course lays its focus on the concepts and advances in integrated circuit technology and embedded systems. The students will learn advanced hardware design through programming and implementation by using Xilinx software package.

CONTENT:

1. Introduction to VHDL
2. Design of combinational logic circuits
3. Sequential Logic Circuit Design
4. Types of Memories

**CERTIFICATE OF COMPLETION
BY MAHSA UNIVERSITY**