

# El E 481: Fund. Low Power Dig. VLSI Design Electrical and Computer Engineering

Techniques to constrain designs, run static timing analysis, evaluate datapath logic, run physical synthesis, optimize for low-power structures, analyze DFT (design for test-ability) constraints, and interface with other tools. Exploration and implementation of several low-power techniques to reduce both dynamic and leakage power during synthesis, including multiple supply voltage (MSV) design, power shutoff (PSO) synthesis and dynamic voltage frequency scaling (DVFS) synthesis, low-power flow using CPF and IEEE 1801 and troubleshoot a low-power design, and formal verification of power constraints and ensure the functionality of a low-power design.

3 Credits

## **Prerequisites**

• El E 385: Advanced Digital Systems

• Pre-Requisite: 24 Earned Hours

## Instruction Type(s)

• Lecture: Lecture for El E 481

### Subject Areas

• Computer Hardware Engineering

### **Related Areas**

• Computer Engineering, General



about the accreditation.

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist,