Course Description:
This course presents a structured design philosophy, emphasizing hardware building blocks, circuit synthesis, and microprogramming. In the laboratory, students build, study, and debug a working minicomputer from elementary hardware components. This course will be a combination of lecture and laboratory.

Tentative Topics
✓ Introduction and Fundamentals
✓ Combinational Logic Design
✓ Sequential Logic Design
✓ Hardware Description Languages
✓ Digital Building Blocks
✓ ARM Architecture
✓ Microarchitecture
✓ Memory Systems
✓ I/O Systems