

## **AP5211 ELECTRONICS SYSTEM DESIGN LABORATORY II**

### DETAILED SYLLABUS

#### **OBJECTIVES**

- To study of 32 bit ARM7 microcontroller RTOS and its application
  - To understand testing RTOS environment and system programming
  - To learn wireless network design using embedded systems
  - To learn System design using ASIC
  - To know use of Verilog and VHDL in sequential digital system modelling
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1. Study of 32 bit ARM7 microcontroller RTOS and its application
  2. Testing RTOS environment and system programming
  3. Designing of wireless network using embedded systems
  4. Implementation of ARM with FPGA
  5. Design and Implementation of ALU in FPGA using VHDL and Verilog
  6. Modeling of Sequential Digital system using Verilog and VHDL
  7. Flash controller programming - data flash with erase, verify and fusing
  8. System design using ASIC
  9. Design, simulation and analysis of signal integrity