Diploma, Anna Univ UG & PG Courses

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CS8382 DIGITAL SYSTEMS LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To understand the various basic logic gates
- To design and implement the various combinational circuits
- To design and implement combinational circuits using MSI devices.
- To design and implement sequential circuits
- To understand and code with HDL programming

LIST OF EXPERIMENTS

- 1. Verification of Boolean Theorems using basic gates.
- 2. Design and implementation of combinational circuits using basic gates for arbitrary functions, code converters.
- 3. Design and implement Half/Full Adder and Subtractor.
- 4. Design and implement combinational circuits using MSI devices:
 - 4 bit binary adder / subtractor
 - Parity generator / checker
 - Magnitude Comparator
 - Application using multiplexers
- 5. Design and implement shift-registers.
- 6. Design and implement synchronous counters.
- 7. Design and implement asynchronous counters.
- 8. Coding combinational circuits using HDL.
- 9. Coding sequential circuits using HDL.
- 10. Design and implementation of a simple digital system (Mini Project).