

# Sri Bhagawan Mahaveer Jain First Grade College

Geetha Road, Robertsonpet, Kolar Gold Fields.

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## DIGITAL LOGIC CIRCUITS

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### On successful completion of course student will:

- Acquire the basic knowledge of digital logic levels and its application.
- Gain knowledge on digital arithmetic operations for algebraic simplification.
- Design Decoders, Encoders, Digital multiplexers, Adders and Subtractors, Binary comparators,
- Latches and Flip-Flops
- Design registers and Counters, A/D and D/A converters.
- Understand, analyze and design of programmable logic devices and VHDL
- Identify basic requirements for a designing a combinational logic circuit
- Identify and prevent various hazards and timing problems in a digital circuit.
- Understand digital IC terminology and characteristics of TTL, MOS, ECL families.