

FIRST YEAR

Digital Techniques I	COE103
Prerequisite : None	(3-2-0-2)

Introduction to Digital Technique: Logic level and pulse waveforms, elements of digital logic, digital logic function, digital ICs, microprocessors. Systems of numbers: General number formula, Binary, Octal, Decimal & hexadecimal numbers. Number Base Conversions: Arithmetic operation in define number, complements, binary, codes, BCD, Ex-3, gray codes. Boolean Algebra: Basic definition, basic theorem & properties, Boolean functions. **Practical part:** *Introduction to Logic gates. Simple applications of logic gates. Applications of Boolean algebra.*