Digital Electronics or Logic Design (TCS-301) Books: Digital Derign (M. Mons Mano) Gow Valland Smart devices are used today pearson (dow Vo Hage) 4 For example Mobile phone Smart devices (fitness watch), smartwatches Pace Maker, Excericse Monitor, Latest Car Play Stations etc are very much in demand L> All these devices deal with processor or Computer System anside 94. La How to design such system or Digital System La Electronics circuits are divided into Analog System/ Digital System/Circuits * Combination of both is Mixed Circuits 4 Digital Circuits Basic elements are Number or Number System How do computers read Numbers and manipulate Rumber S

(Baric, Conversion, Brinary Codes,

Ly Circuits working on it are gates (Banicalates Lation & Minimization of gates (optimi-Zation & Minimization) (Boolean Algebra) Sop, Pos, K-Map Digital Circuits Sequential arcuits Combinational arcuits (Memory Element) Apply SIP -> OIP Any SIP -> OIP only function of SIP But OIP will depend on past Adder, MUX, DE-MUX, history Encoder, Decoder Latches, Plip Flops Counters Register 4 Designing of these Circuits Ly Analysis of these Circuits. Li For large Circuits these methods are not effective for such system Computer processing or Algorithms are used ASM Charles (Capture the behaviour, Mapping) Ly faults in System (detects and Methody so that it can be used to derign IC