



# **SNS COLLEGE OF TECHNOLOGY**

(An Autonomous Institution)

**COIMBATORE-35**

Accredited by NBA-AICTE and Accredited by NAAC – UGC with A++ Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## **23EET202 / DIGITAL ELECTRONICS AND INTEGRATED CIRCUITS**

**II YEAR / III SEMESTER**

## **UNIT-II: DESIGN OF COMBINATIONAL AND SEQUENTIAL CIRCUITS**

### **DESIGN OF COMBINATIONAL CIRCUITS - PROCEDURE**



# TOPIC OUTLINE

Combinational circuits  
Design Procedure  
Design Examples..





# COMBINATIONAL CIRCUITS



- Adders
- Subtractors
- Multiplexers / De multiplexers
- Encoders / Decoders
- Code converters
- Magnitude comparators



# DESIGN PROCEDURE

1. Read the question carefully, find number of inputs and outputs
2. Assign literals for the inputs/outputs
3. Develop the truth table as per question
4. Using k map, minimize the boolean expression
5. Draw logic circuit as per expression



# SUMMARIZE

More Design  
Examples..

...code converters (4)



# THANK YOU