



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



19EET204 / DIGITAL ELECTRONICS AND INTEGRATED CIRCUITS

II YEAR / IV 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