DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING **SUBJECT CODE: 19CS2109 COMPUTER NETWORKS AND SECURITY**

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Learning outcomes:		
General idea of what Error Control is	. [stanford.edu]	

- Understand the Error Detection methods like CRC and parity.

IN-TUTORIAL:

1. The message 110010011 is to be transmitted using the generator polynomial x^3+1 to protect it from errors. Find the final data to be transmitted after performing CRC. Also check for errors on the received data using CRC.

Solution:

- 2. A bitstream 10011101 is transmitted using the standard CRC method. The generator polynomial is \mathbf{x}^3+1
 - a. What is actual bit string transmitted?
 - b. Suppose the third bit from the left is inverted during transmission. How will receiver detect the error?

Solution:

POST-TUTORIAL:

1. Consider the message M=101001011 and do the Cyclic Redundancy check for the above message using the following divisor polynomial $x^5 + x^3 + x^2 + 1$.

Solution:

2. For the given message11011101, find the even and odd parity and then write a python code.

Solution:

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(For Evaluator's use only)

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