**NMAM.I.T., NITTE**

**DEPARTMENT OF MCA**

**II SEM MCA**

**NETWORK ASSIGNMENTS 4 – Error Detection Code**

1. Write a program for error detection code using Parity check technique.

**\*\*\*\*\*\*\*\*\*\*\*\*SENDER\*\*\*\*\*\*\*\*\*\*\*\***

Enter Message : 1011

1. ODD parity (0)

2. even parity (1)

Enter a option : 1

Message to be Transmitted :1011**0**

Do You Want to Introduce error(Y/N) : Y

Enter the Position : 1 (condition : position between 1 to T size)

**\*\*\*\*\*\*\*\*\*\*\*\*RECEIVER\*\*\*\*\*\*\*\*\*\*\*\***

Message received at the Receiver : **0**0110

**ERROR in MESSAGE**

1. Write a program for error detecting code using CRC technique

**\*\*\*\*\*\*\*\*\*\*\*\*SENDER\*\*\*\*\*\*\*\*\*\*\*\***

Enter Message : 101010

Enter Pattern : 1111 (Condition : pattern size should be less than Message or else re enter pattern)

Given Message is : 101010

Given Pattern is : 1111

Message size is : 6

Pattern Size is : 4

FCS : 3bit

After Appending Q is :101010000

Remainder R is :100

Message to be Transmitted T is :101010**100**

Do You Want to Introduce error(Y/N) : Y

Enter the Position : 2 (condition : position between 1 to T size)

**\*\*\*\*\*\*\*\*\*\*\*\*RECEIVER\*\*\*\*\*\*\*\*\*\*\*\***

Message received at the Receiver : 1**1**1010100

Remainder R is : 100

**ERROR IN MESSAGE**