



BGS Institute of Technology

B.G. Nagara
Assignment-2 (Assignment)

Semester: 6-CBCS 2022
Subject: Advanced Communication Systems (22EC61)

Max Marks: 10

Answer any 5 question(s)						
Q.No			Marks	CO	PO	BT/CL
1	a	In a (2,1,3) convolution encoder, the impulse response is given by g 1 =[1 0 1 1] and g 2 =[1 1 1 1] i) Draw encoder circuit ii)For the message d=[1 0 1 1 1] find the codeword using time domain approach and transform domain	2	CO1, CO2	PO1, PO2, PO3, PO12	L3
	b	state and explain properties of convolution codes	2	CO1, CO2	PO1, PO2, PO3, PO12	L2
	c	What is equalization? With neat block diagram explain the working of linear transversal equalizer and discuss peak distortion criterion	2	CO2, CO4	PO1, PO2, PO3, PO12	L2
	d	What is ISI? Explain how it affects digital data transmission. How can it be reduced?	2	CO2, CO4	PO1, PO2, PO3, PO12	L2
	e	With relevant block diagram and equations, explain the working of adaptive decision feedback equalizer	2	CO2, CO4	PO1, PO2, PO3, PO12	L2

- CO1 : Explain merits and demerits of different modulation techniques & coding techniques, spread spectrumsignals and channel behaviors
- CO2 : Analyze various modulation, equalization, diversity and coding techniques for communication systems
- CO4 : Design and demonstrate various modulation/coding equalization

FACULTY

MODULE_COORDINATOR

HOD