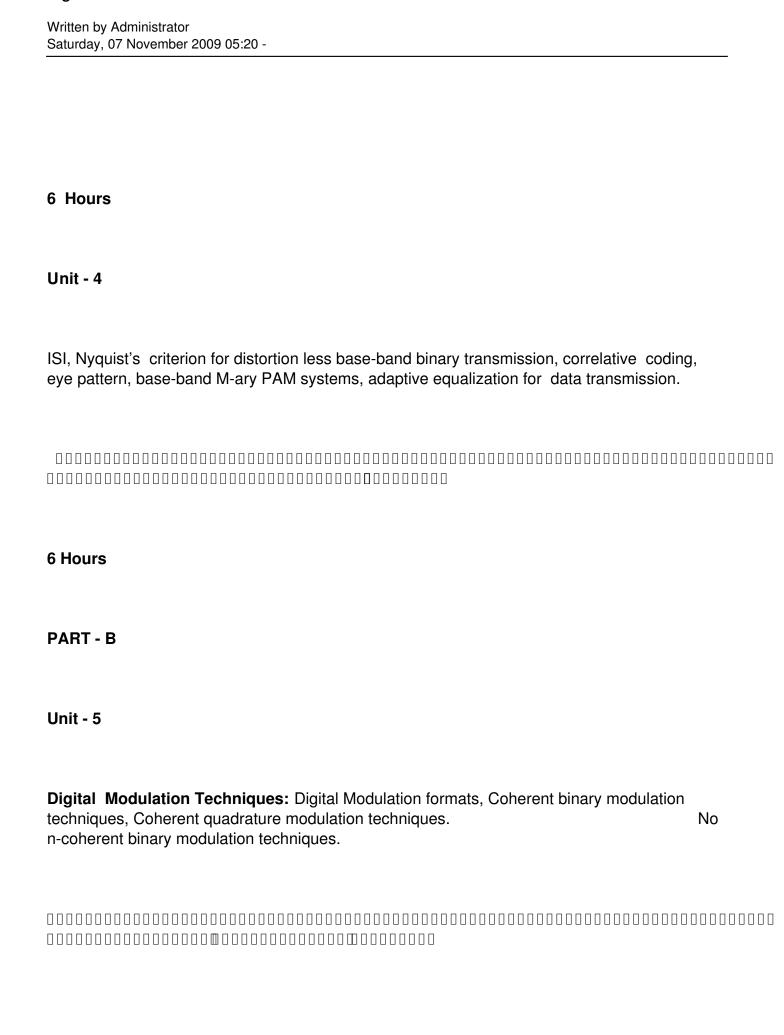
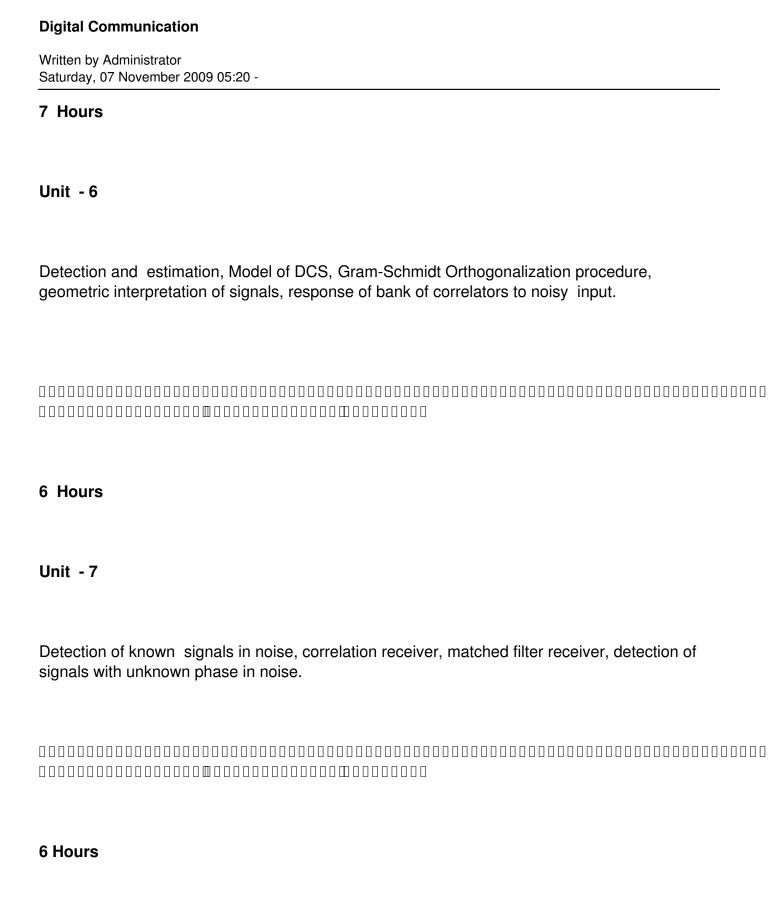
Written by Administrator Saturday, 07 November 2009 05:20 -		
Subject Code		:
		1.
IA Marks	: 25	
No. of Lecture Hrs/Week		: 04
No. of Lecture HIS/Week		. 04
Exam Hours	: 03	
Total no. of Lecture Hrs.		: 52
Exam Marks	: 100	
LACIII IVIAINS	. 100	

Written by Administrator Saturday, 07 November 2009 05:20 -PART - A Unit - 1 Basic signal processing operations in digital communication. Sampling Principles: Sampling Theorem, Quadrature sampling of Band pass signal, Practical aspects of sampling and signal recovery. 7 Hours Unit - 2 PAM, TDM. Waveform Coding Techniques, PCM, Quantization noise and SNR, robust quantization. 7 Hours Unit - 3

DPCM, DM, applications. Base-Band Shaping for Data Transmission, Discrete PAM signals,

power spectra of discrete PAM signals.





Unit -8

Spread Spectrum Modulation: Pseudo noise sequences, notion of spread spectrum, direct

Written by Administrator Saturday, 07 November 2009 05:20 -

sequence spread spectrum, coherent binary PSK, frequency hop spread spectrum, applications.

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#### 7 Hours

### **Text Book:**

1. **Digital communications**, Simon Haykin, John Wiley, 2003.

### **Reference Books:**

- 1. **Digital and analog communication systems & An introduction to Analog and Digital Communication**, K. Sam Shanmugam, John Wiley, 1996. 2.Simon Haykin, John Wiley, 2003
  - 2. Digital communications Bernard Sklar: Pearson education 2007