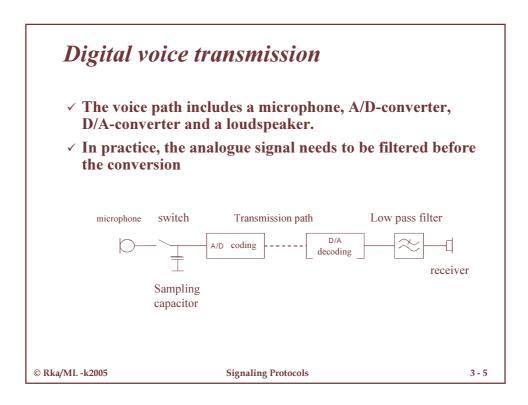
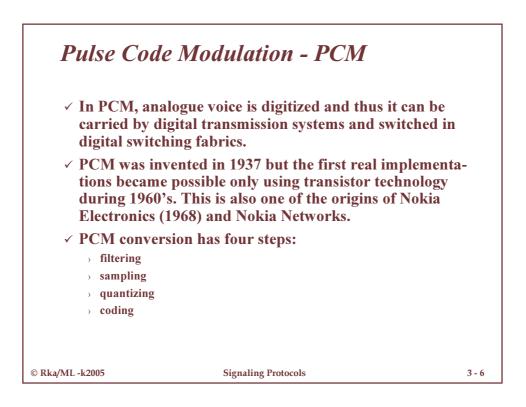
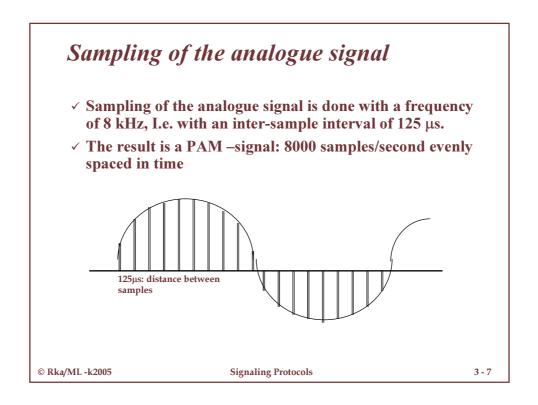
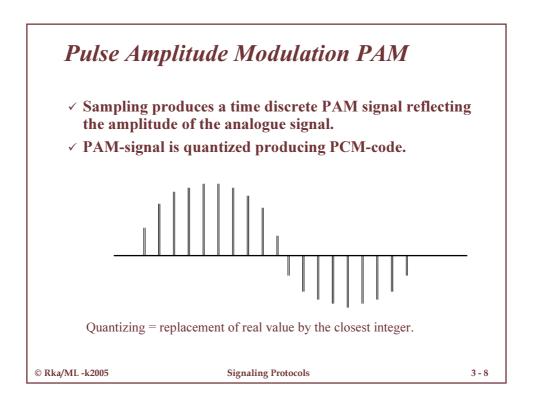


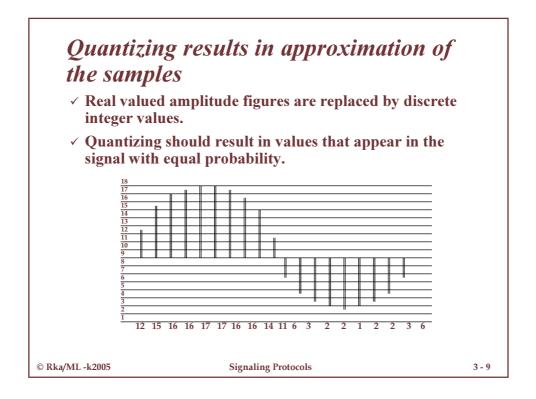
	Sampling			
	✓ Nyquist theorem			
	<ul> <li>If an analogue signal with lim regularly with a frequency of highest frequency component information in the original sig be reconstructed using a low</li> </ul>	at least twice as high as the t, the samples carry all the gnal. The original signal can		
Key assumptions in Circuit	✓ In voice transmission, the specified to be 300 - 3400 minimum sampling rate	Hz, resulting in a		
telephony: PSTN, ISDN	✓ In practice, since the width of the transmission channel in an analogue system is 4kHz, in a digital system a sampling rate of 8 kHz (8000 samples/s) is used.			
Wideban	d codecs, such as WB-AMR and WI	B-GIPS use		
a samplir	ng rate of 16 kHz	WB –wideband GIPS Global IP Sound –used in Skype		
© Rka/ML -k2005	Signaling Protocols	3-4		

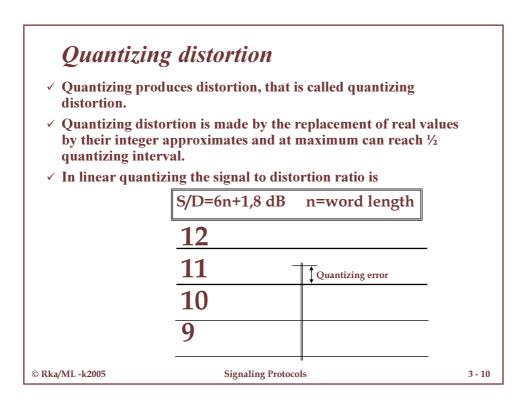


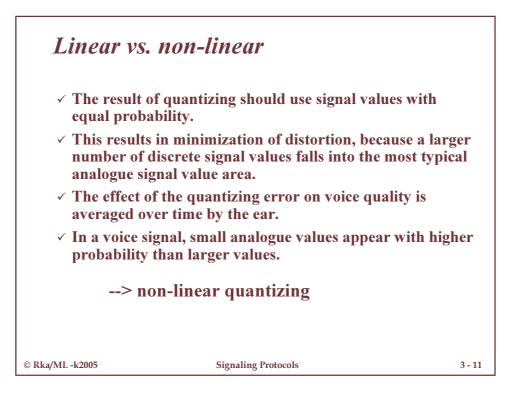


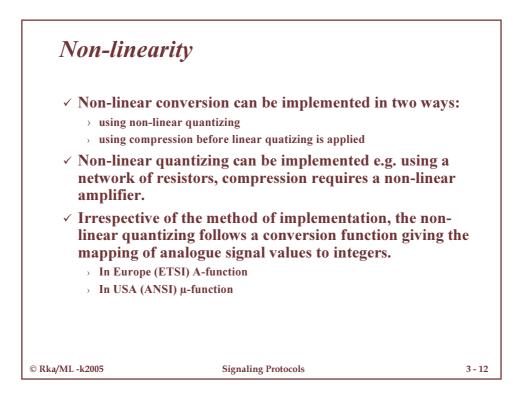


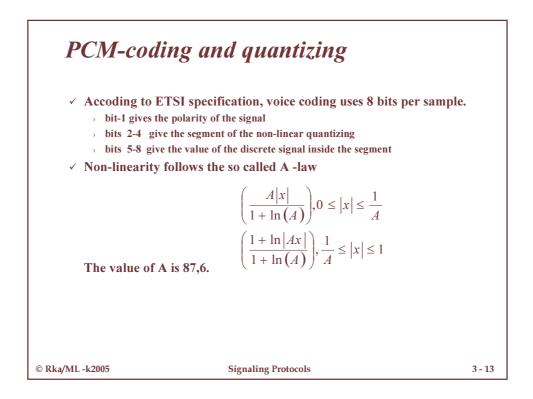


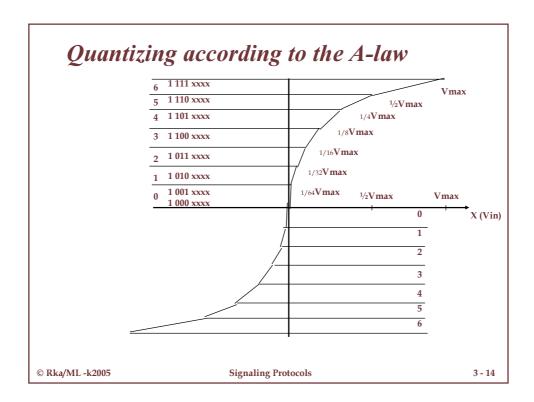


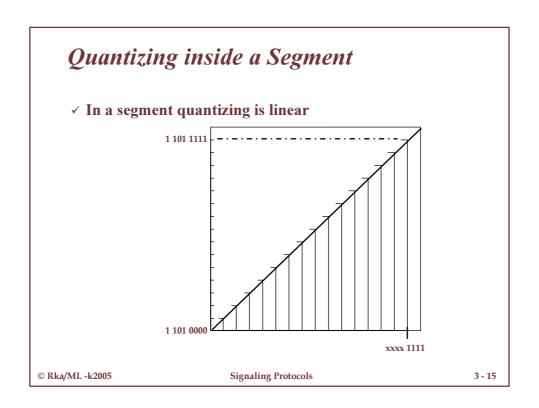


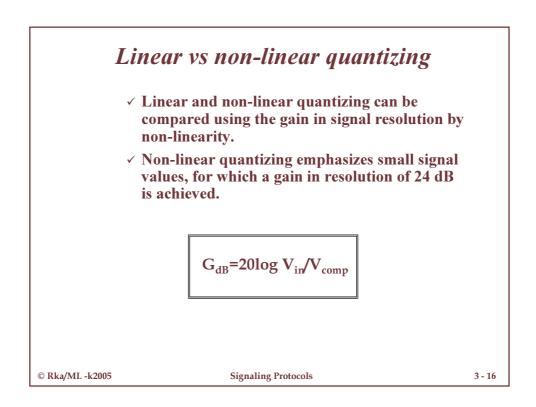


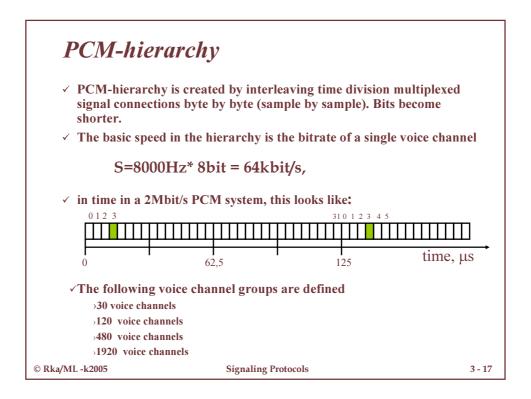


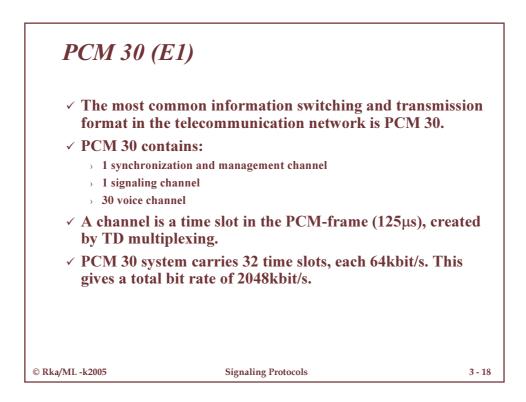


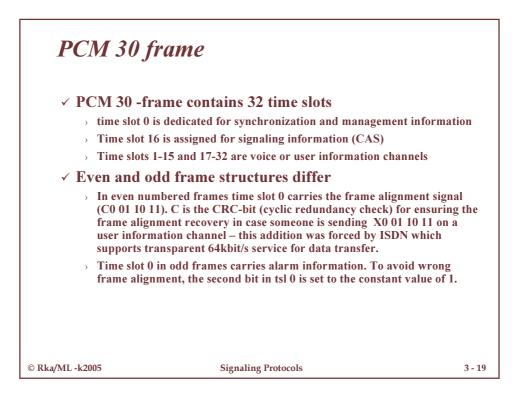


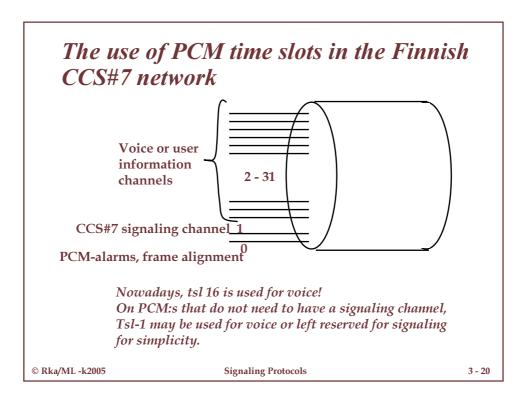


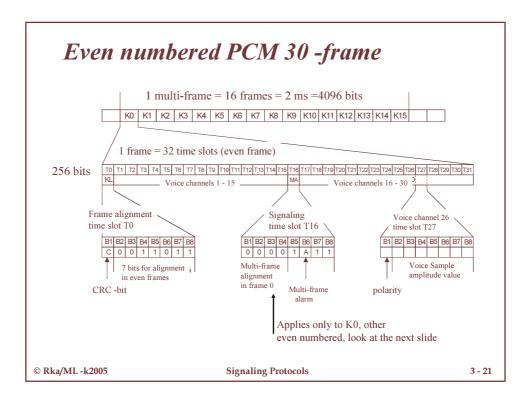


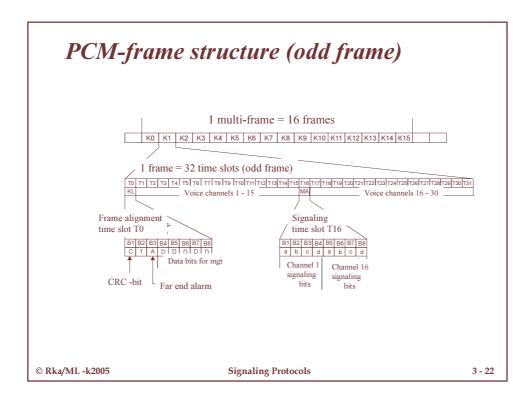


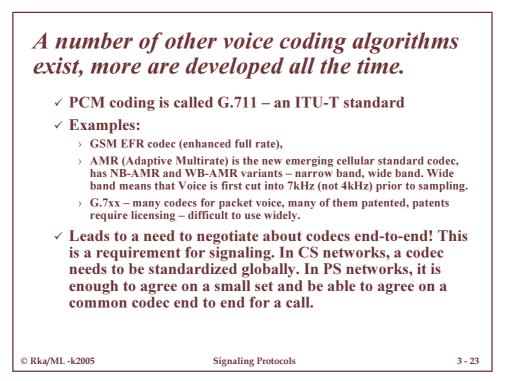












Coding	Algorithm	Sample	Rate	Mean	Yea
Standard		Size (msec)	Kbit/s	Opinion	
				Score	
G. <b>7</b> 11	PCM	0.125	64	4.10	197
GSM 06.10	RPE-LTP	20.000	13	3.50	198
G.726,G727	ADPCM	0.125	16, 24, 32, 40	3.85	199
G.728	LDCELP	0.625	16	3.61	1992, 199
IS-96	VSELP	20.000	8.5, 4, 2, 0.8		199
G.729, G.729a	CS-ACELP	10.000	8	3.92, 3.70	199
G.723.1	MPC-MLQ	10.200	6.3, 5.3	3.90	199
PDC	PSI-CELP	40.000	3.45		199
FS-1015	LPC	25.700		2.40	
AMR-NB					
AMR-WB				>PCM	

