

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	21/02	Introduction : Digital communication system	I	BB		
2	23/02	Wireless channel statistical models		Black Board		
3	25/02	BER performance in AWGN		"		
4	26/02	BER performance in fading channels		"		
5	27/02	for different modulation techniques		"		
6	01/03	BER performance of CDMA		"		
7	03/03	FH-CDMA in AWGN and fading channels		"		
8	04/03	Capacity of fading channels with CSF		"		
9	07/03	Diversity reception		"		
10	08/03	Channel coding theorems		"		
11	10/03	Channel coding gains		"		
12	11/03	Block coding: Galois fields	II	BB		
13	14/03	polynomials over Galois fields		"		
14	15/03	RS codes		"		
15	17/03	Decoding technique - via for RS codes		"		
16	18/03	"		"		
17	20/03	LDPC Encoder		"		
18	22/03	Decoder		"		
19	28/03	Performance analysis of LDPC		"		
20	29/03	LDPC codes		"		

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21	21/03	BCH codes		Block design		
22	01/04	convolution codes: I	<u>III</u>	"		
23	04/04	Linear convolution Encoder		"		
24	07/04	"		"		
25	11/04	"		"		
26	12/04	Structural proper		"		
27	14/04	Type of Convolution codes		"		
28	15/04	"		"		
29	18/04	"		"		
30	19/04	convolution codes: 2	<u>III</u>	"		
31	21/04	Viterbi decoding technique for convolution codes		"		
32	22/04	"		"		
33	25/04	Soft/Hard decision		"		
34	26/04	Interleaving of block codes		"		
35	28/04	convolution codes		"		
36	29/04	Performance Analysis		"		
37	05/05	concept of trellis coded modulation		"		
38	07/05	"		"		
39	08/05	Turbo codes: parallel concatenation	<u>IV</u>	"		
40	12/05	"		"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
41	20/06	turbo encoder	IV	Black Board		
42	21/06	Iterative decoding using BCJR	"	"		
43	22/06	Algorithm "	"	"		
44	24/06	"	"	"		
45	25/06	performance Analy	"	"		
46	28/06	Space time coding: MIMO System	V	"		
47	30/06	MIMO fading channels		"		
48	01/07	rate gain		"		
49	04/07	diversity gain		"		
50	07/07	transmit diversity		"		
51	08/07	Alamouti Scheme		"		
52	11/07	OSTBC codes		"		
53	12/07	Linear Space-time codes		"		
54	14/07	trellis space-time codes		"		
55	15/07	space time codes with no CSI		"		