



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)

Shobhavana Campus, Mijar-574225, Moodbidri, D.K

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Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

ATTENDANCE BOOK

Academic Year :2023-24.....

Semester :5th.....Section.....A.....

Period of the Semester : From 27th Oct. 2023...to.....

Subject with Code : Digital communication - 21EC51.....

Name of the Faculty : Prof. VIVEKHA.T.S. & Prof. Bhagyashree.K

Department : Electronics & communication engineering.

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

MISSION OF THE INSTITUTE

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

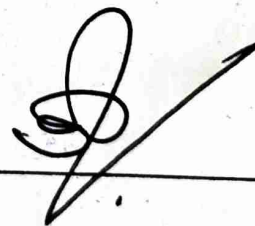
AIET	Lesson Plan & Execution			Format No.	ACD 08	
				Issue No.	01	
				Rev. No.	00	
Name of the faculty			Prof. Vijetha T.S & Prof. Bhagyashree .K			
Semester and Section			5 th sem A section			
Date of Commencement			07 th Oct 2023			
Last Working Day of the Semester			16 th March 2024			
Source Materials List						
1.	Simon Haykin		Digital Communication System			
2.	John G. Proakis		Fundamentals of Communication System			
3.	K Sam Shanmugan		Digital & analog Communication System			
4.						
5.						
Subject Name Digital Communication - MEC51						
Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
1	07/11/2023	Module - 1 Introduction to modulation	1	Module - 1 Introduction to modulation	12/12/2023	1
2	08/11/2023	BPSK - detection	1	BPSK	13/12/2023	1
3	29/11/2023	P _e of BPSK QPSK	1	P _e of BPSK	14/12/2023	1
4	30/11/2023	M-ary PSK m-ary QAM	1	Binary FSK	18/12/2023	1

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referr
5	01/10/23	FSK, Pe	1	Pe of BPSK	19/12/23	1
6	04/12/23	DPSK Technique	1	DPSK	19/12/23	1
7	05/12/23	Problems	1	Problems	28/12/23	1
8	06/12/23	Problems	1	QPSK	28/12/23	1
9	07/12/23	Module - 2 Geometric rep - sly	1	Pe of QPSK	28/12/23	1
10	08/12/23	Gram Schmit Procedure	1	Non-Coherent BPSK	28/12/23	1
11	11/12/23	AWGN channel	1	Detection of QPSK	02/01/24	1
12	12/12/23	Optimum Rx	1	Introduction loss	23/01/24	1
13	13/12/23	Correlation Rx	1	PN - sequence	23/01/24	1
14	14/12/23	Nyquist Criterion	1	Properties of PN	24/01/24	1
15	15/12/23	Band limited sly	1	Module - 4 Introduction	27/11/23	1
16	18/12/23	Digital PAM	1	Measure of Info	29/11/23	1
17	19/12/23	Module - 3 Model of SS	1	Problems	29/12/23	1

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
18	30/12/23	Direct Sequence SS	1	Independent seq	05/12/23	1
19	31/12/23	PN sequences	1	Problems	06/12/23	1
20	30/12/23	Re of SS	1	Encoding	07/12/23	1
21	01/01/24	F.H Spread Spe	1	Problems	07/12/23	1
22	02/01/24	Properties of PN	1	Shannon's En	11/12/23	1
23	03/01/24	CDMA Based ZS 95	1	Problems	12/12/23	1
24	04/01/24	Comparison of Technique	1	Error Control	16/12	1
25	05/01/24	Module - 4 Measure of Information	3	Problem	18/12/23	1
26	08/01/24	Long Independent sequence	3	Controlling errors	19/12/23	1
27	09/01/24	Encoding of Source o/p	3	Problems	21/12/23	1
28	10/01/24	Shannon's Encoding	3	Shanno-Kano	22/12/23	1
29	11/01/24	Error Control coding	3	First 2A	02/01/24	1
30	12/01/24	Controlling Error	3	Module - 3 DS-SS	25/01/24	1

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referre
31	15/01/24	Types of Codes	3	FH-SS	27/01/24	1
32	16/01/24	Shannon-Fano Encoder	3	Slow FH-SS	01/02/24	1
33	17/01/24	Module - 5 Linear Block codes	3	CDM-A	09/02/24	1
34	18/01/24	Error detection & correction	3	CDMA 2S-95	09/02/24	1
35	19/01/24	Hamming Code	3	Comparison of SS	26/02/24	1
36	22/01/24	Table look up Decoding	3	Problems	27/02/24	1
37	23/01/24	Convolution Encoders	3	Problems	27/02/24	1
38	24/01/24	Time domain approach	3	Module - 2 Detection of sig	28/02/24	1
39	25/01/24	Code Tree	3	Gram-Schmidt	01/03/24	1
40	31/01/24	Trellis & State diagram	3	Gram-Schmidt	02/03/24	1
H1				Basis functions	04/03/24	1
H2				matched filter	4/03/24	1
H3				Correlation Receiver	05/03/24	1

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
44				Properties of matched filter	05/03/24	1
45				Impulse Response	06/03/24	1
46				Correlation coding	07/03/24	1
47				Duo-binary signalling	09/03/24	1
48				Third Z.A	12/03/24	1
49				Gram Schmidt Problems	14/03/24	1
50				Duo binary Problems	15/03/24	1
51				QP Problems	16/03/24	1
52				<u>M-5</u> Linear Block Code	24/02/24	3
53				Error detection & correction	28/02/24	3
54				Hamming Code	29/02/24	3
55				Table look up decoding	26/02/24	3
56				Time domain approach	01/03/24	3

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Refer
S7				Time domain approach	01/03/24	3
S8				Transfer domain approach	02/03/24	3
S9				Transfer domain approach	04/03/24	3
60				Code tree	05/03/24	3
61				Code tree	05/03/24	3
62 + ⑦				Trellis Tree diagram	01/03/24	3
						

Others	Planned	Actual	Remarks :
Special Classes	8		
Tutorials	1/wk	1/wk	
Assignments	3		
Seminars	-	-	
IA Tests	3	3	
Portions Covered in the entire Semester	100%. All the 5 modules		
Course Effectiveness			
Students Feedback			
Students Responce			
Result	No. of Students AP	No. of Students Passed	% of Result

Faculty in Charge

Signature of Principal (& Remarks if any)

PRINCIPAL

Alva's Institute of Engg. & Technology,
Biller, MOOREHILL - 574 225, D.K.

Siddesh
HOD's Signature