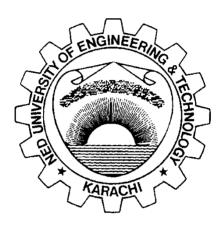
Practical Workbook

CS-352

DIGITAL COMMUNICATION SYSTEM

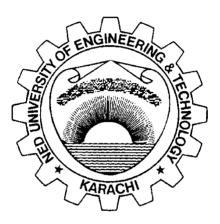


Name :		
Year :		
Batch :	Roll No :	
Department:		

Department of Computer & Information Systems Engineering NED University of Engineering & Technology **Practical Workbook**

CS-352

DIGITAL COMMUNICATION SYSTEM



Prepared by: Umar Iftikhar

Revised in: August 2019

Department of Computer & Information Systems Engineering NED University of Engineering & Technology

Lab Session Object Page No. No 1 1. Explore MATLAB to understand the concept of digital communication 2. Analyze the Plotting of signals and Creating subplots 14 3. Explore the concept of Sampling & Quantization 30 32 4. To explore sampling & reconstruction of CT sinusoids and understand aliasing phenomenon 5. Use the concept of different continuous wave signals and plotting time 35 domain graphs for such signals. 6. Understanding Simulink basics 37 7. Examine the behaviour of Encoding messages for a forward error correction system with a given Linear block code and verifying through simulation. 54 8. Exploring the concept Decoding linear block codes 60 9. **Explore Cyclic codes** 74 10. Analyze loss less data compression using Huffman coding. 92 11. Computing continuous and discrete Fourier transforms of a given signal. 105

CONTENTS

13.Analyze Digital Filter114

111

14. Project Submission

Examine the Working with Wavelets

12.