

## **Department of Electronics and Communication Engineering**

### **DIGITAL COMMUNICATION LAB MANUAL**

**BECL504**

**CIE Marks: 50**

**SIE Marks: 50**

**Credits: 1**

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# Digital Communication Lab Manual

**Dr. Preeta Sharan**



## **Digital Communication Lab Manual:**

Digital Communications With Lab Manual, 3/E Bhat K. N. Hari, 2010-09      *Analog and Digital Communication Engineering Lab Manual Volume-1* Bindu Sebastian, Adarsh K. S., Vinod J. Thomas, 2016-02-12      **Introduction to Wireless Digital Communication** Robert W. Heath Jr., 2017-04-04

The Accessible Guide to Modern Wireless Communication for Undergraduates Graduates and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science yet the concepts have remained elusive for students who are not specialists in the area This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates graduates and practicing electrical engineers Notably the book builds on a signal processing foundation and does not require prior courses on analog or digital communication Introduction to Wireless Digital Communication establishes the principles of communication from a digital signal processing perspective including key mathematical background transmitter and receiver signal processing algorithms channel models and generalizations to multiple antennas Robert Heath's less is more approach focuses on typical solutions to common problems in wireless engineering Heath presents digital communication fundamentals from a signal processing perspective focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems He describes specific receiver algorithms for implementing wireless communication links including synchronization carrier frequency offset estimation channel estimation and equalization While most concepts are presented for systems with single transmit and receive antennas Heath concludes by extending those concepts to contemporary MIMO systems To promote learning each chapter includes previews bullet point summaries examples and numerous homework problems to help readers test their knowledge Basics of wireless communication applications history and the central role of signal processing Digital communication essentials components channels distortion coding decoding encryption and modulation demodulation Signal processing linear time invariant systems probability random processes Fourier transforms derivation of complex baseband signal representation and equivalent channels and multi rate signal processing Least squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation symbol mapping constellations signal bandwidth and noise Synchronization including symbol frame and carrier frequency offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and or receive antennas including SIMO MISO and MIMO OFDM Register your product at [informit.com/register](http://informit.com/register) for convenient access to downloads updates and corrections as they become available

**Digital Communications With Lab Manual** Kn Hari Bhat, 2009-01-01      **An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994      **Advance Communication Lab Manual** Dr. Preeta Sharan, 2009      Digital Fundamentals Thomas L. Floyd, 1990      **El-Hi Textbooks and Serials in Print**, 2006      A Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education, 1988      *Books in Print*

*Supplement* ,1994      *The 1982 Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education,1982      **Digital Electronics Through Project Analysis** Ronald A. Reis,1991 An introductory text to digital circuits for beginning electronics students which provides coverage of basic digital concepts and includes 46 actual digital projects that illustrate concrete applications Coverage encompasses digital combinational and sequential logic circuits  
*Books in Print* ,1994      Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,2000      *Digital Experiments* David Buchla,1990      **Digital Experiments Emphasizing Troubleshooting** Jerry V. Cox,1990      **El-Hi Textbooks & Serials in Print, 2005** ,2005      **Electronic Communications** Robert J. Schoenbeck,1992 A very practical comprehensive introduction to all currently used forms of modulation and recovery of electronic signals with an emphasis on their applications      Fundamentals of Digital Electronics Robert K. Dueck,1994  
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