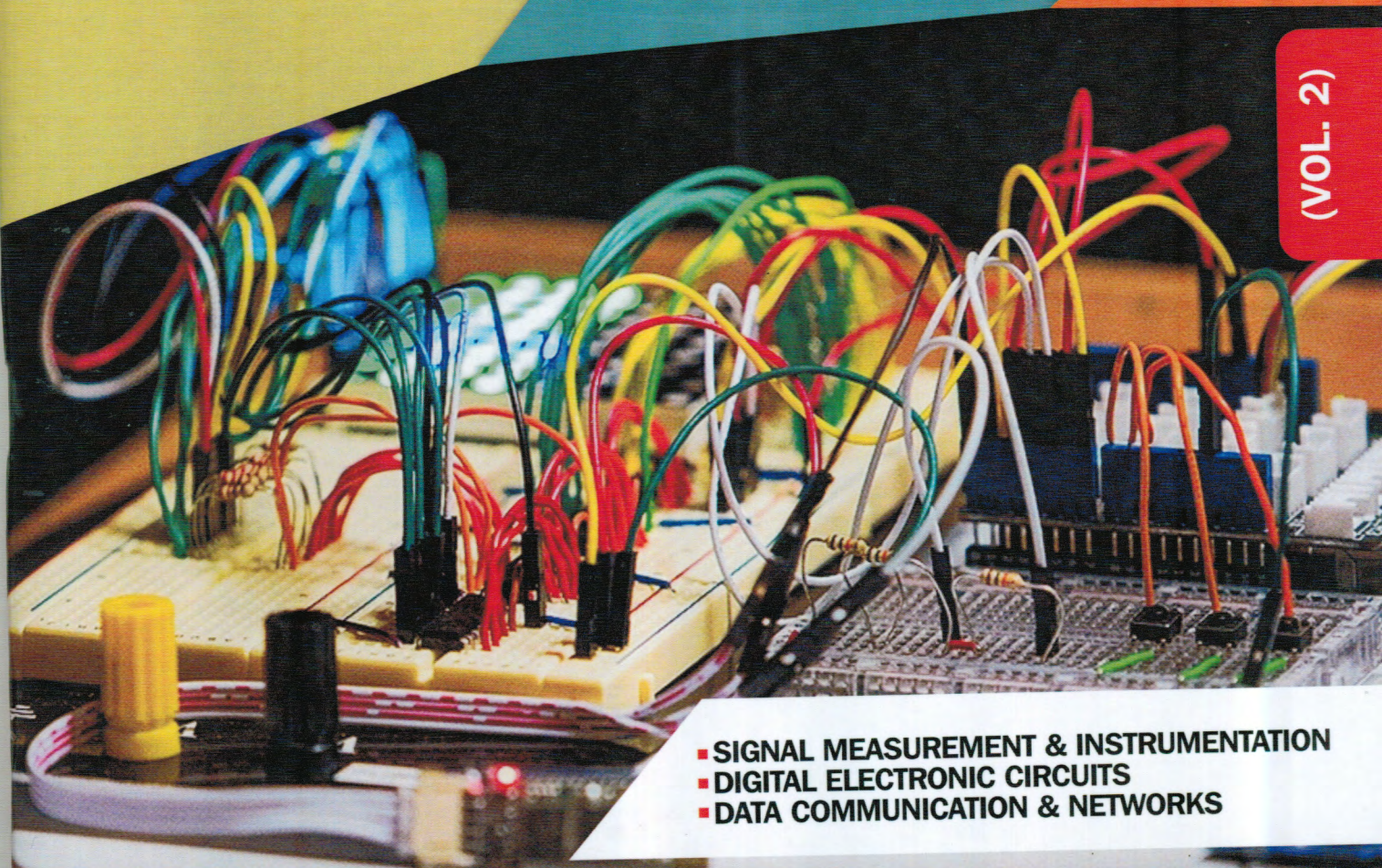


UNDERGRADUATE **COMPUTER** **ENGINEERING** **LABORATORY MANUAL**

(VOL. 2)

- 
- SIGNAL MEASUREMENT & INSTRUMENTATION
 - DIGITAL ELECTRONIC CIRCUITS
 - DATA COMMUNICATION & NETWORKS



UNDERGRADUATE COMPUTER
ENGINEERING LABORATORY
MANUAL (VOL. 2)

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Signal Measurement & Instrumentation
Digital Electronic Circuits
Data Communication & Networks

Foreword

This instruction manual is the second in the series of the undergraduate Computer Engineering laboratory manuals designed to facilitate a practical-oriented approach to learning by students of Computer Engineering in Nigerian Universities. In developing this manual, requirements in the Basic Minimum Academic Standard (BMAS) as defined by both the National Universities Commission (NUC) and the Council for the Regulation of Engineering in Nigeria (COREN) for courses to be audited by Computer Engineering undergraduates were considered.

This volume focuses on experiments in Signal Measurement and Instrumentation, Digital Electronic Circuits and Data Communication and Computer Networks. A total of six laboratory sessions are to be performed by students in each of these areas.

At the end of each laboratory session, each student is expected to write a report on the experiments conducted in the workbook provided and submit to laboratory instructors for assessment.

It is our desire that the use of this manual in undergraduate Computer Engineering laboratories will achieve our goal of imparting students with the necessary hands-on experience that will make them productive Computer Engineers in the future.

J.F. Opadiji, Dr.Eng, R.Eng.

J.F. Opadiji

*Department of Computer Engineering
University of Ilorin*

A.T. Ajiboye

*Department of Computer Engineering
University of Ilorin*

S.A. Olatunji

*Department of Computer Engineering
University of Ilorin*

S.L. Ayinla

*Department of Computer Engineering
University of Ilorin*

A.R. Ajayi

*Department of Computer Engineering
University of Ilorin*

O.A. Yusuf

*Department of Computer Engineering
University of Ilorin*

O.O. Labiran

*Department of Computer Engineering
University of Ilorin*

H.O. Mahmud

*Department of Computer Engineering
University of Ilorin*

O.F. Adebayo

*Department of Computer Engineering
University of Ilorin*

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