

**DATA
COMMUNICATION
AND
NETWORKS :
A PRIMER
[For BCA & B.Sc.(CS)]**

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P R E F A C E

This book is written to cater the needs of undergraduate students of Bachelor of Computer Applications and Bachelor of Science. The content of this book will be a hand book for those who want to learn about Data Communication and Networks from the beginner's level of understanding. Data communication is the transmission of digital data through a network or to a device external to the sending device, which is the cornerstone of modern telecommunications. Data communication is an essential concept in the creation of computer networks. Keeping this in mind the concepts of networks and communication has been made easy in this book.

The book covers the concepts of Data communication and Networks in Five units pertaining to the undergraduate level academics. Unit 1 unveils the basic network architecture. Unit 2 deals with Digital transmission and physical layer. Unit 3 explains the working of Data Link Layer and the IEEE standards. Unit 4 concentrates on Network layer and Transport layer. Unit 5 covers the concepts of the Session layer, presentation layer and Application layer.

Each unit provides the question bank for the respective chapters. The goal of this book is to provide easy and simple explanation in Data communication and Networks. Suggestions for improvement of the book will be gratefully accepted and may be sent to kkaaiselvi111@gmail.com.

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Mary Jacob

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 *Dr.K.Kalaiselvi*

 *Mary Jacob*

**Dedicated this work
to
Family and Friends**

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