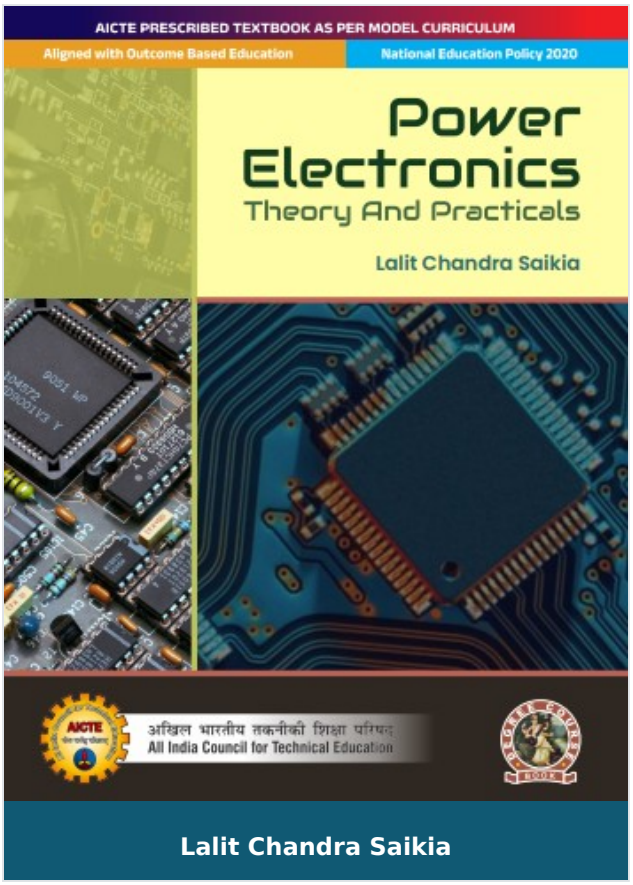


# Power Electronics: Theory and Practicals

| | |
|---|---|
| **Author :** | Lalit Chandra Saikia |
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| **Country Origin :** | India |

## Product Description

**Power Electronics: Theory and Practicals**

This book serves as an essential resource for students and professionals in Electrical Engineering. Starting with the basics of semiconductor technology, the book gradually introduces the basics of power electronics covering construction, principle of operations, various characteristics of power transistors and thyristors, SCR turned-on and turned-off methods, and industrial control circuits using power electronics. All are grouped in separate units. The subject matters are presented constructively so that an electrical engineering degree prepares students to work in different sectors at the very forefront of technology. Laboratory experiments on the basics of power electronics as recommended by AICTE are included in the units.

**Salient Features:**

- Detailed alignment of content with Course Outcomes, Program Outcomes, and specific Unit Outcomes.
- The contents of each Unit are as per the syllabus of second-year undergraduate.
- The book is enriched with up-to-date information, important facts, and QR codes linking to valuable E-resources.
- A balance of student and teacher-centric materials, presented in an orderly chronological format.
- The book is enriched with numerous solved problems in every unit for proper understanding of the related topics.
- Laboratory experiments on the basics of power electronics are presented at the end of each Unit.
- Extensive use of figures and tables enhances understanding of the topics and the concept.

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- The ‘Know more’ section in each unit encourages exploration beyond the standard syllabus.
- A variety of exercises including short questions, objective-type questions, and numerical problems, are provided at the end of each chapter.

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- Turn-on and turn-off methods of thyristors
- Phase controlled rectifiers
- Industrial control circuits
- Appendices
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- Dynamic QR codes for further reading
- CO and PO attainment table
- Index


## Author

**Lalit Chandra Saikia**

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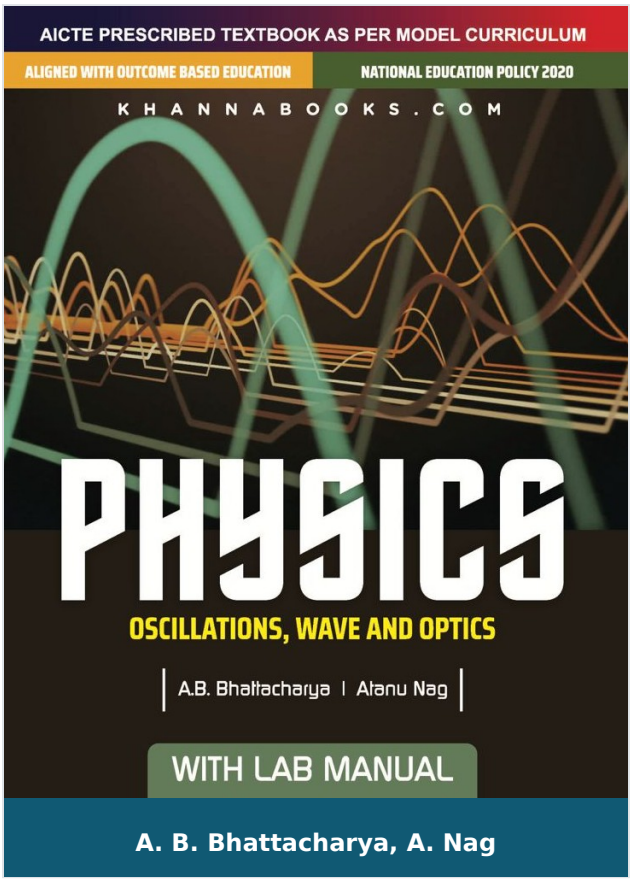


# Physics (Oscillations, Waves and Optics) With Lab Manual

| | |
|---|---|
| **Author :** | A. B. Bhattacharya, A. Nag |
| **ISBN 13 :** | 978-93-91505-13-4 |
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For the implementation of an outcome based education the first requirement is to develop an outcome based curriculum and incorporate an outcome based assessment in the education system. By going through outcome based assessments evaluators will be able to evaluate whether the students have achieved the outlined standard, specific and measurable outcomes. With the proper incorporation of outcome based education there will be a definite commitment to achieve a minimum standard for all learners without giving up at any level. At the end of the Programme running with the aid of outcome based education, a student will be able to arrive at the following outcomes

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## Author

**A. B. Bhattacharya**

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars

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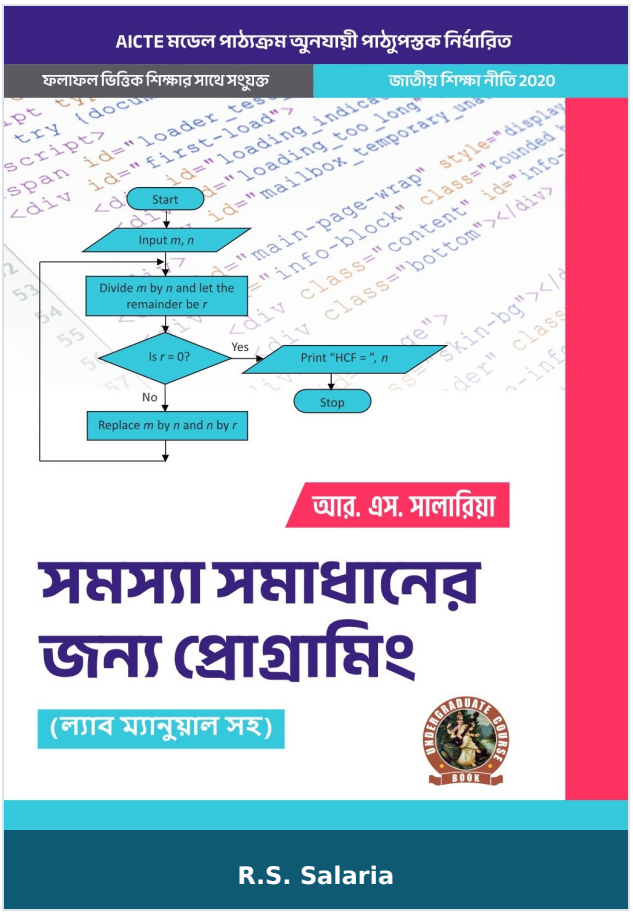
received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

**A. Nag**

A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.




# Programming for Problem Solving (with Lab Manual)

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-55381-03-3 |
| **ISBN 10 :** | 9355381034 |
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## Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

Salient Features:

1. Simple and lucid language that enables students to grasp the subject.
2. Demonstrates the elegant programming style.
3. 165+ ready to run programs for reference and to illustrate the program development process.
4. 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely.
5. 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts.
6. 90+ Programming problems to provide an opportunity to harness programming skills.

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- Pointers.
- File Handling.
- References for further learning
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## Author

**R.S. Salaria**

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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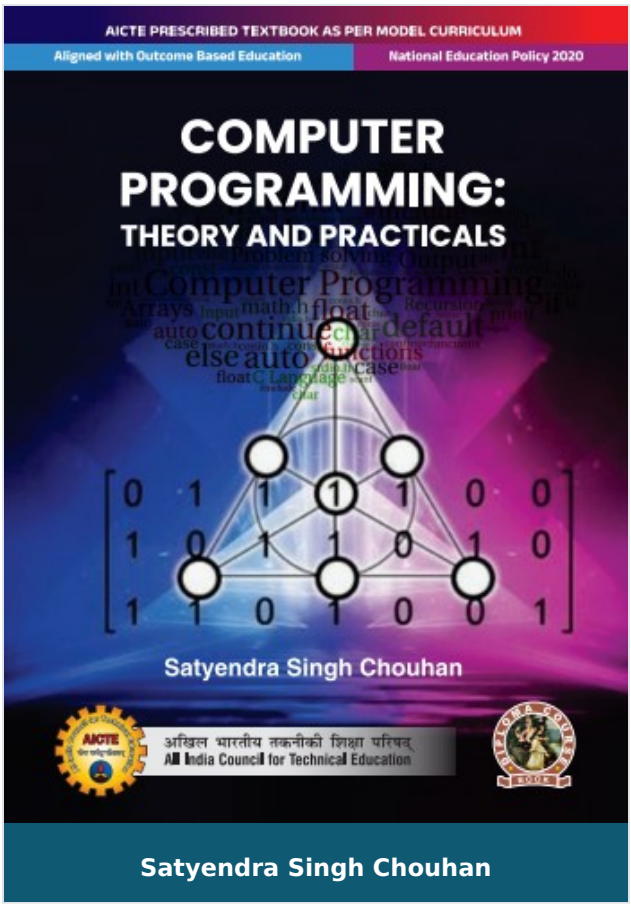


# Computer Programming: Theory and Practicals

| | |
|---|---|
| **Author :** | Satyendra Singh Chouhan |
| **ISBN 13 :** | 978-93-55382-67-2 |
| **ISBN 10 :** | 9355382677 |
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## Product Description

**Computer Programming: Theory and Practicals**

This book is written to provide fundamental knowledge of problem-solving using c programming language for beginners. It employs real-life examples for better understanding. It covers topics such as the foundation of c programming, input-output in c, control statements, Arrays and functions, and recursion & recursive solutions. This book is an amalgamation of theoretical understanding and practical applications.

This book includes visuals and step-by-step solutions for explaining the key concepts. This book is aimed at diploma and undergraduate engineering students to enhance their problem-solving skills.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Operators and Input-Output in c
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- Recursion and recursive solutions
- Appendices
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- CO and PO Attainment table
- Index


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Dr. Satyendra Singh Chouhan Assistant Professor, Department of Computer Science and Engineering

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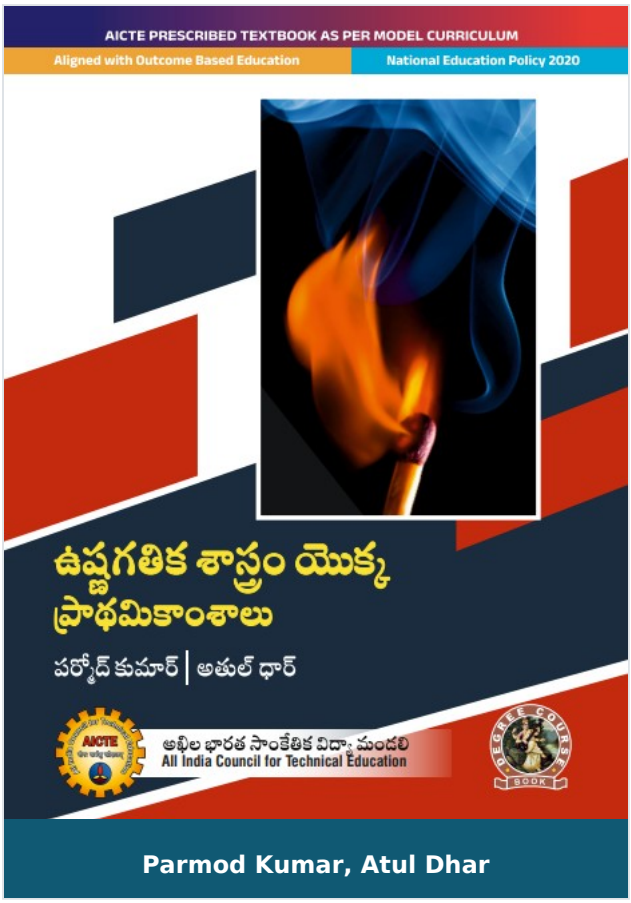


# Basics of Thermodynamics

| | |
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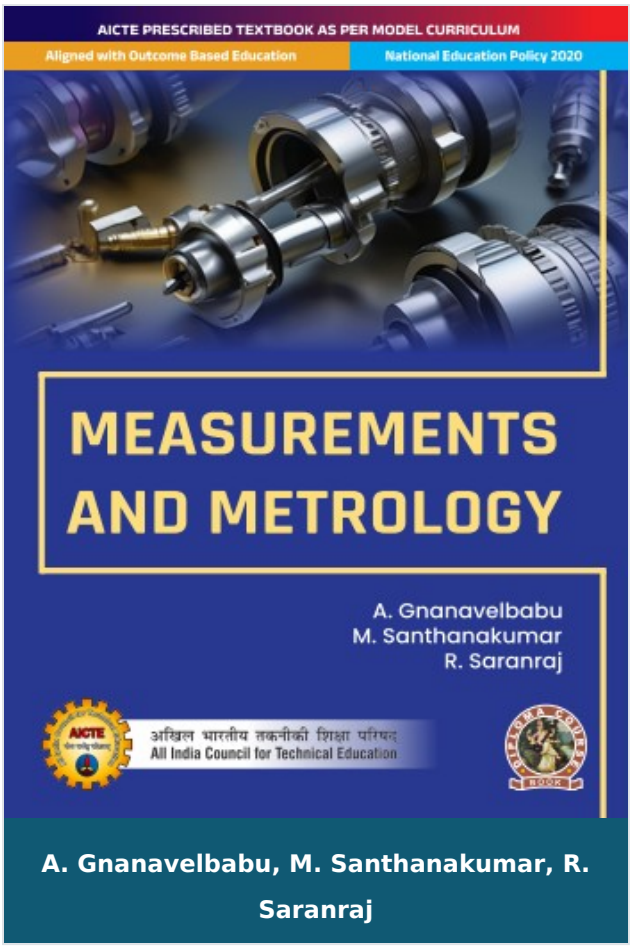


**A. Gnanavelbabu, M. Santhanakumar, R. Saranraj**

# Measurements and Metrology

| | |
|---|---|
| **Author :** | A. Gnanavelbabu, M. Santhanakumar, R. Saranraj |
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## Product Description

### Measurements and Metrology

This book familiarizes students with the critical domains of Measurements and Metrology. It provides a comprehensive understanding of basic science for engineering students. Covering the fundamentals of measurements and metrology, and enables them to gain insight into the subject. The book covers essential topics such as dimensional measurements, calibration techniques, mechanical measurement system, and various metrology tools and their applications in engineering problems. The primary content of this book aligns with the model curriculum of AICTE and fellow the outcomes-based education concepts as per the National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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- MEPC210 Measurements & Metrology Lab
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- CO – PO Attainment Table
- Index


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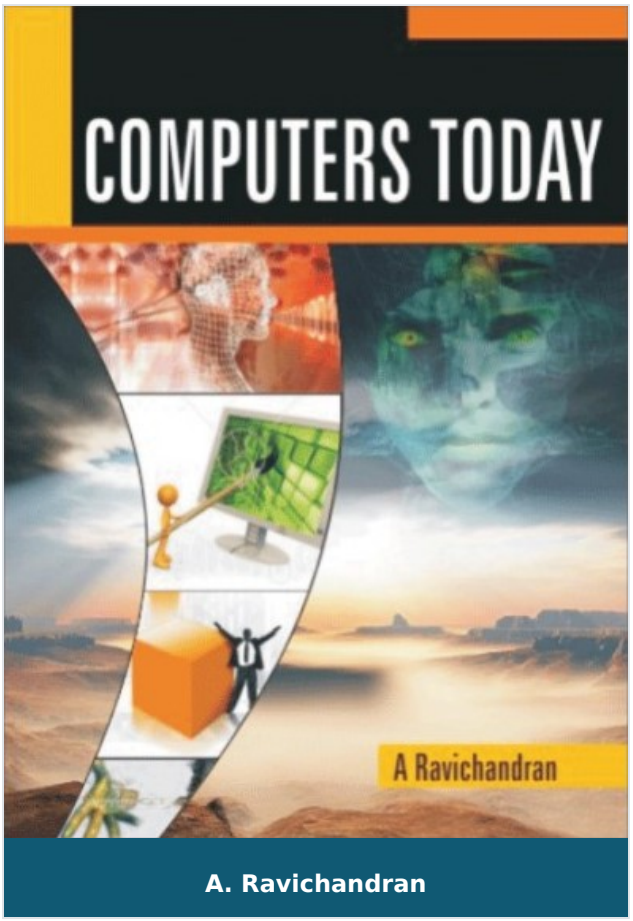


A. Ravichandran

## Computers Today

| | |
|---|---|
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## Product Description

This book covers all the aspects of computers starting from development of a computer to it software. Hardware, communication and many more. Since now a days computers are finding its way into every home, business industry, corporate and research activity, therefore the purpose of this book is to cover all the targeted audiences including beginners, advance users, computer specialists and end users in a best possible manner. After going through this book you will be to find out- If a computer is needed by you or your organization. specification of the computer required by you or your organization. How installation of the computer will benefit you or your organization. Time for updating of your computer/ its hardware/ software. Basic as well as advance know-how about computers, its software and hardware. fast and easy steps for better working.

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- Computer Security, Crime and Ethics
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**A. Ravichandran**

A. Ravichandran He has obtained M.Tech degree in Computer Science & Engineering from IIT. Delhi and Ph.D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

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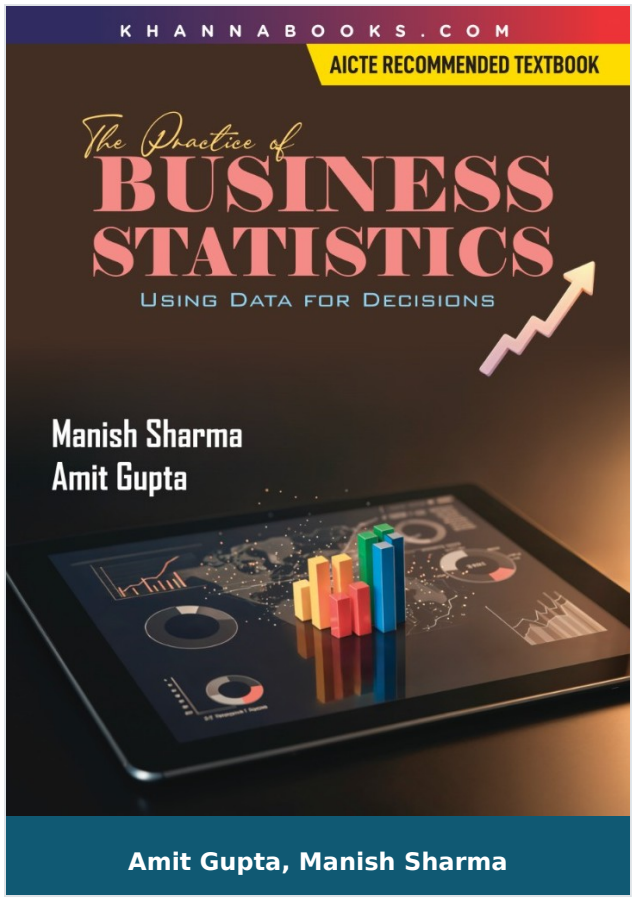


Amit Gupta, Manish Sharma

# The Practice of Business Statistics

| | |
|---|---|
| **Author :** | Amit Gupta, Manish Sharma |
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## Product Description

Easy to read & write style, Adequate example and problems based on real-life business situations, Every chapter is supported with multiple choice questions, Theoretical questions and numerical for better practice, Explanation of import concepts through various worked-out examples, The book is presented with an approach to explain the graphs have been drawn which enable students to grasp the subject in an easy way, Systematic and sequential arrangement of different topics, Rich pedagogy.

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- Statistical Decision Theory (SDT)
- Statistical Quality Control (SQC)
- Appendix
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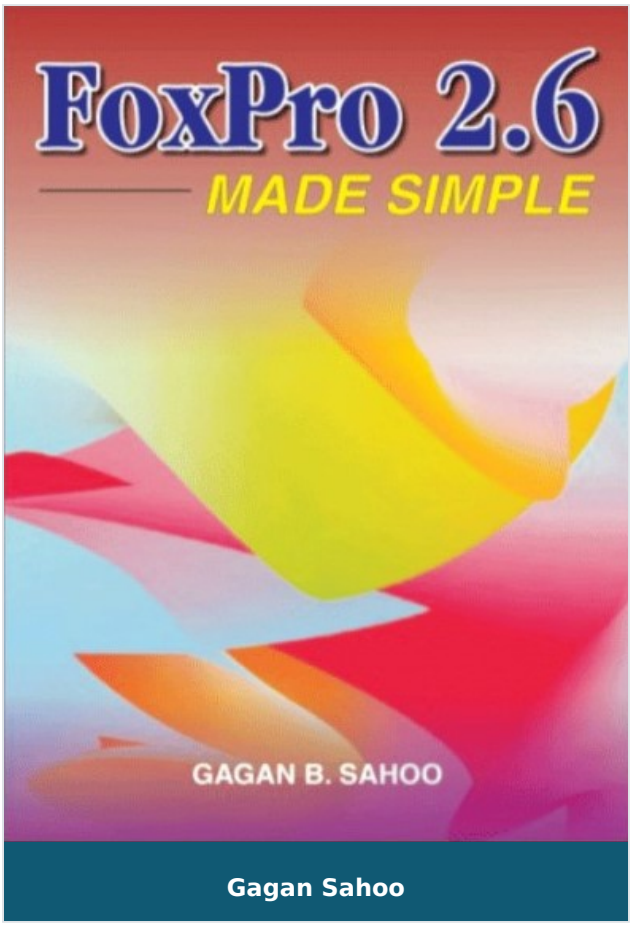


Gagan Sahoo

# FoxPro 2.6 Made Simple

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| **Author :** | Gagan Sahoo |
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## Product Description

FoxPro for windows is a program that runs on IBM and other IBM-compatible PCs and operates under microsoft windows. FoxPro for window is a database management system(DBMS) with which you can: Create and maintain a list of data called a table or database files, such as library list, member list, inventory, etc. Maintain any collection of information using FoxPro for MS-DOS and windows, sort and organize tables. Search for/retrieve information within a table. Generate reports, input forms, and mailing label from tables. Organize information in multiple tables and retrieve data simultaneously from any of the tables. Alter existing tables and arrange the structure.

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- Control Flow
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- Windows Menus and Popups
- Reporting Through Programming
- Structural and Procedural Programming
- Event Trapping
- Case Studies Admission System
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## Author

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Gagan Sahoo This well -organized and comprehensive book offers a detailed coverage on Visual Basic Programming concept. It contains a rich collection of examples, exercises and project based concepts. This book concentrates on the principles of good software engineering and stresses program clarity. without assuming and background knowlwdge of programming, this book teaches VB language using carefully graded approach. The book covers easy-to understand steps, from simple programs to sophisticated ones that demonstrate VBs power for programming development. Using this book you can create different application statring from desktop application; database Handling to Internet based programming. The book contains 100's source codes in different chapters in CD. He has more that 15 Years of experience in the computer field working as a software developer, director of software development. He is a well-known author of various computer books including, VB, C++, Java. Since last 10 years, he has lots of experience in different computer project works. He has written number of project books including Foxpro, C, C++, Vb, etc. He associates Mr. Arvind Kumar working as co-author in various technical projects in .NET technology. He has been Programming in various .NET project and tested so many code on Microsoft's .NET environment. His prime development of Beginner's Guide to VB, C# 2005 (with.NET 3.0), ASP.NET, VB.NET, etc. Which was written to fullfil the need and development guide for the students and developers.

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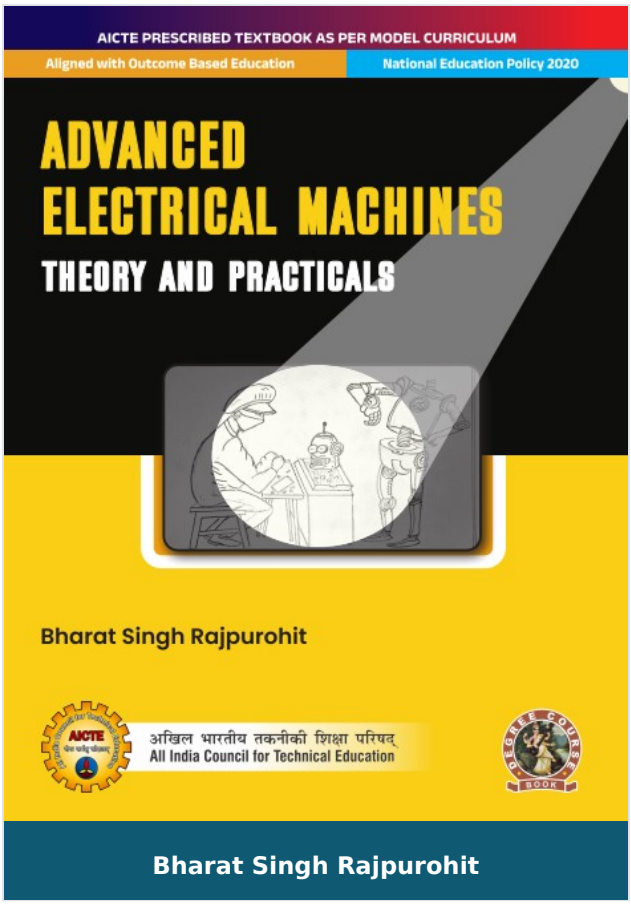


# Advanced Electrical Machines: Theory and Practicals

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## Product Description

### Advanced Electrical Machines: Theory and Practicals

“Advanced Electrical Machines: Theory and Practical’s” is a course that equips engineering students with a comprehensive understanding of advanced concepts in AC electrical machines, enabling them to analyze, design, and evaluate machine performance. This textbook offers a well-structured, student friendly introduction to AC machines, specifically tailored for fourth semester undergraduate students of core engineering branches. Drawing upon the AICTE’s revised model curriculum, the material presents a balanced integration of theory and practical applications. It covers key topics such as the fundamentals of AC machine windings, the behavior of pulsating and revolving magnetic fields, the operational characteristics of induction and synchronous machines, and single-phase motor theory. Emphasis is placed on understanding the underlying electromagnetic principles, performance characteristics, and modern methods for control and testing. Book will help students in building a strong foundation and to gain both analytical and practical competencies. By the end of this course, students will be able to understand, analyze, and characterize the AC machines.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- At the beginning of each unit learning outcomes are listed to make the student understand what is expected of him/her after completing that unit.
- The book provides a lot of recent information, interesting facts, references for further reading, simulation codes, etc.
- Student and teacher-centric subject materials included in the book in a balanced and chronological manner.

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- Figures, tables, and output waveforms are included to improve the clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond the syllabus.
- At the end of each chapter, short questions, objective questions, and long answer exercises are given for the students to practice.
- Problems including numerical examples are solved with systematic steps provided.

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