

Access Free Basic Electrical
And Electronics Engineering

Muthusubramanian

Basic Electrical

And Electronics

Engineering

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Are you looking for a simple

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***and understandable
introduction to the basics of
electrical engineering and
electronics? Then you are well
advised with this book! As an
engineer (M.Eng.) I would like
to teach you the basics of
electrical engineering and***

electronics. In summary, this book offers you an easy to understand, intuitively structured and practical introduction to the world of electrical engineering! What is current and what is voltage? What is charge?

What is power, what is 1 kWh? How does an electric motor work? What is the difference between direct current and alternating current? This electrical engineering handbook not only answers these questions,

but also covers many other topics in depth and detail. In addition, in this compact beginner's guide, you will quickly and easily learn the functions as well as the application of important electronic components such

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***as resistors, diodes,
transistors, capacitors and
much more. This book offers
you a comprehensive yet
compact introduction to the
basics of electrical
engineering and electronics!
In addition to important basic***

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terms and principles, you will also learn, for example, how to analyze circuits (Kirchhoff's rules), what a bipolar transistor is, what a MOSFET is, and how a RLC circuit is designed. We will also look at what happens when you place

an inductor in a magnetic field and what practical applications these basic principles have in our modern world. We will also do some calculations together and we will learn the mathematical equations behind the basic

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principles of electrical engineering in each chapter. However, depending on how deep you want to go into the material, you can also just take note of them. This fundamentals book is aimed specifically at anyone who

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has no prior knowledge of electrical and electronic engineering, or who already has some knowledge but is looking for a practical and understandable guide to electrical engineering. No matter what age you are,

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***what profession you have,
whether you are a pupil,
student or pensioner. This
book is for anyone who wants
or needs to learn about
electrical engineering and
electronics. The aim of this
book is to introduce you to***

***how electrical engineering
accompanies us in everyday
life and the basic principles
involved. In addition, you will
learn the basics of direct
current technology and
alternating current
technology, their theoretical***

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***backgrounds and much more!
Develop a basic
understanding of electrical
engineering and electronics in
no time! Therefore, do not
hesitate any longer, best take
a look at the book and get
your copy home as an ebook***

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or paperback! Briefly summarized, you will learn the following in detail in this course: - Basic concepts and basic quantities of electrical engineering - How to analyze and solve electrical engineering circuits - Ohm's

law, Ampere's law and Farady's law - Components such as resistor, diode (e.g. LED), transistor, capacitor, transformer, ..., and how they work and what they are used for - The difference between direct current and alternating

current, as well as single-phase and multi-phase systems - How does electricity get into the house? Getting to know the power supply system - Direct current and alternating current motors and their structure / mode of

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operation - Outlook:

***Renewable energies such as
photovoltaics and wind power
- and much more! Take a look
at the book and get your copy
as an ebook or paperback!***

***This practical resource
introduces electrical and***

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***electronic principles and
technology covering theory
through detailed examples,
enabling students to develop
a sound understanding of the
knowledge required by
technicians in fields such as
electrical engineering,***

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***electronics and
telecommunications. No
previous background in
engineering is assumed,
making this an ideal text for
vocational courses at Levels 2
and 3, foundation degrees
and introductory courses for***

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undergraduates.

Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of ASTU-those who find learning concepts difficult and want to study

through solved examples, and those who wish to study the traditional way. A large number of solved examples are the backbone of this series and are aimed at instilling confidence in the students to take on the

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examinations. Basic Electrical and Electronics Engineering-I has been specially designed to serve as a textbook for an introductory course on basic electrical and electronics engineering. It meets the requirements of a large

***spectrum of 1st semester
undergraduate students of all
branches of engineering. The
book has been developed with
an eye on the interpretation
of concepts and application of
theories. The language has
been kept very simple so that***

students are able to assimilate the subject matter with ease. A large number of solved examples have also been provided for self-assessment. Key Features • Complete coverage of all the modules of the syllabi of

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***ASTU and also useful for GATE
and other graduate level
exams • Comprehensive and
lucid presentation of the
basic concepts • Over 200
worked-out examples
including conceptual
guidelines • Over 380 multiple***

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***choice questions with
answers • A large number of
short questions and answers
FEC 105 Basic Electrical and
Electronics Engineering
Lessons in Electric Circuits:
An Encyclopedic Text &
Reference Guide (6 Volumes***

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Access Free Basic Electrical
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Muthusubramanian
Set)

***BASICS OF ELECTRICAL
ENGINEERING AND
ELECTRONIC COMPONENTS
Electrical Engineering 101***

Designed For Entry-Level Engineering
Students, This Book Presents A Thorough
Exposition Of Electrical, Electronics,

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Computer And Communication
Engineering. Simple Language Has Been
Used Throughout The Book And The
Fundamental Concepts Have Been
Systematically Highlighted * This Edition
Includes New Chapters On * Transmission
And Distribution * Communication
Services * Linear And Digital Integrated

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Circuits * Sequential Logic System * The Book Also Includes * Large Number Of Diagrams For A Clear Understanding Of The Subject * Cumerous Solved Examples Illustrating Basic Concepts And Techniques * Exercises And Review Questions With Answers * Revision Formulae For Quick Review And Recall All These Features Make

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This Book An Ideal Text For Both Degree
And Diploma Students Engineering.
Designed to serve as a core textbook for
undergraduate first year engineering
students. It presents the topics of basic
electrical and electronics engineering in
simple, easy-to-understand language. -
Fundamentals are explained with suitable

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examples. - Core concepts are presented through examination-oriented solved problems. - Practice problems are included at the end of each chapter for self-evaluation. - Answers to practice problems are included with detailed explanations. - Includes elaborate illustration and circuit diagrams.

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Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper

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understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is

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written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new

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coverage of: Microcontrollers FPGAs
Classes of components Memory (RAM,
ROM, etc.) Surface mount High speed
design Board layout Advanced digital
electronics (e.g. processors) Transistor
circuits and circuit design Op-amp and logic
circuits Use of test equipment Gives readers
a simple explanation of complex concepts,

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in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

Fundamentals of Electrical Engineering and Electronics

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Electrical Engineering | Step by Step

Basic Electrical and Electronics Engineering:
For PTU

Conceptual Approach

This Book extensive pruning of the
solved Examples in the
text. Majority of the old examples

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have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

UNIT I - ELECTRICAL CIRCUITS
ANALYSIS Ohms Law, Kirchhoff's
Law-Instantaneous power- series

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and parallel circuit analysis with
resistive, capacitive and inductive
network - nodal analysis, mesh
analysis network theorems -
Thevenin's theorem, Norton
theorem, maximum power
transfer theorem and superposition

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theorem, three phase supply-
Instantaneous, Reactive
and apparent power-star delta
conversion. UNIT II - ELECTRICAL
MACHINES DC and AC rotating
machines: Types, Construction,
principle, EMF and torque equation,

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application Speed Control- Basics
of Stepper Motor - Brushless DC
motors-Transformers Introduction-
types and construction, working
principle of Idealtransformer - EMF
equation- All day efficiency
calculation.UNIT III - UTILIZATION

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OF ELECTRICAL POWER

Renewable energy sources-wind and solar panels. Illumination by lamps- Sodium Vapour, Mercury vapour, Fluorescent tube. Domestic refrigerator and air conditioner- Electric circuit, construction and

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working principle. Batteries-NiCd,
Pb Acid and Li ion-Charge and
Discharge Characteristics.
Protection-need for earthing,
fuses and circuit breakers. Energy
Tariff calculation for domestic
loads. UNIT IV - ELECTRONIC

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CIRCUITS PN Junction-VI

Characteristics of Diode, zener diode, Transistors configurations- amplifiers. Op amps- Amplifiers, oscillator, rectifiers, differentiator, integrator, ADC, DAC. Multi vibrator using 555 Timer IC . Voltage

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regulator IC using LM723, LM

317.UNIT V - ELECTRICAL

MEASUREMENT Characteristic of
measurement-errors in

measurement, torque in indicating
instruments-moving coil and

moving iron meters, Energy meter

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and watt meter. Transducers-
classification-thermo electric, RTD,
Strain gauge, LVDT, LDR and
piezoelectric.Oscilloscope-CR
UNIT I - ELECTRICAL
CIRCUITSBasic circuit
components, Ohms Law - Kirchoff's

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Law - Instantaneous Power -
Inductors - Capacitors -
Independent and Dependent
Sources - steady state solution of
DC circuits - Nodal analysis, Mesh
analysis- Thevinin's Theorem,
Norton's Theorem, Maximum

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Power transfer theorem- Linearity
and Superposition Theorem.UNIT II
- AC CIRCUITSIntroduction to AC
circuits - waveforms and RMS
value - power and power factor,
single phase and three-phase
balanced circuits - Three phase

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loads - housing wiring, industrial
wiring, materials of wiring

UNIT III -
ELECTRICAL

MACHINES Principles of operation
and characteristics of; DC
machines, Transformers (single
and three phase), Synchronous

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machines, three phase and single
phase induction motors.UNIT IV -
ELECTRONIC DEVICES &
CIRCUITSTypes of Materials -
Silicon & Germanium- N type and P
type materials -PN Junction
-Forward and Reverse Bias

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-Semiconductor Diodes -Bipolar
Junction Transistor -
Characteristics - Field Effect
Transistors - Transistor Biasing
-Introduction to operational
Amplifier -Inverting Amplifier -Non
Inverting Amplifier -DAC -

ADC.UNIT V - MEASUREMENTS
& INSTRUMENTATION Introduction
to transducers - Classification of
Transducers: Resistive, Inductive,
Capacitive, Thermoelectric,
piezoelectric, photoelectric, Hall
effect and Mechanical-,

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Classification of instruments -
Types of indicating Instruments -
multimeters - Oscilloscopes- - three-
phase power measurements -
instrument transformers(CT and
PT)

BASIC ELECTRICAL AND

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ELECTRONICS ENGINEERING

Schaum's Outline of Basic

Electrical Engineering

Everything You Should Have

Learned in School...but Probably

Didn't

Basic Electrical and Electronics

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Engineering-I (For ASTU Assam)

*For the students are pursuing of
BSc. Engineering, B.E. & B.Tech in
electronics and electrical
engineering, diploma in electronics
& communication etc. The Basic
Electrical and Electronics*

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Engineering book covers the production and distribution of power and the manufacturing of electrical and electronics components used in a number of sectors including construction, building and technology. The book

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*covers basics of electricity,
electrical circuits, laws of
electricity, electromagnetism,
electrical mechanics, Sinusoid and
Phasor. It also provides basic laws
of electronics, semiconductors and
digital electronics.*

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The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical and electronics engineering. It also includes worked out examples, University examination questions

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and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in such a way that even a mediocre student can

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assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of the topics. Other features include attractive writing style, well structured equations and

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numerical examples, pictures of high clarity, etc. This book is one of the prescribed text books for the syllabus of Kerala University B. Sc Electronics course.

Basic Electrical and Electronics Engineering: For RGPV is a student-

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friendly, practical and example-driven book that gives its readers a solid foundation in the basics of electrical and electronics engineering. The contents have been tailored to exactly correspond with the requirements of the core course

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Basic Electrical and Electronics Engineering, offered to the students of Rajiv Gandhi Proudyogiki Vishwavidyalaya in their first year. A rich collection of solved examples and chapters mapped to the university syllabus make this book

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And Electronics Engineering
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indispensable for students.

*Circuits, Electronics, Machines,
Controls*

*Basics, Components & Circuits
Explained for Beginners*

*Basic Electrical and Electronic
Engineering*

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*Basic Electrical And Electronics
Engineering I (For Wbut)*

**This book provides an
overview of the basics of
electrical and electronic
engineering that are
required at the**

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undergraduate level. Efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non-electrical/electronics can easily understand the

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basics. It offers an unparalleled exposure to the entire gamut of topics such as Electricity Fundamentals, Network Theory, Electro-magnetism, Electrical Machines, Transformers,

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**Measuring Instruments,
Power Systems,
Semiconductor Devices,
Digital Electronics and
Integrated Circuits.**

**A comprehensive guide to
electrical engineering.**

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**Basic Electrical and
Electronics Engineering
Volume I is designed as per
the syllabus requirements of
the first year core paper
Basic Electrical and
Electronics Engineering I,**

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offered to the first year first semester, undergraduate students of engineering in the West Bengal University of Technology (WBUT). With its simple language and clear-cut style of

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**explanation, this book
presents an intelligent
understanding of the basics
of electrical and electronics.
Electrical and Electronic
Principles and Technology
Basic Electrical and**

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Electronics Engineering

Precise

Electrical and Electronics

Engineering

Basic Electrical & Electronics

Engineering

Basic Electrical and

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Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students

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*outside electrical and
electronics engineering to
easily*

*The understanding of
fundamental concepts of
electrical engineering is
necessary before moving on*

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*to more advanced concepts.
This book is designed as a
textbook for an
introductory course in
electrical engineering for
undergraduate students
from all branches of*

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engineering. The text is organized into fourteen chapters, and provides a balance between theory and applications. Numerous circuit diagrams and explicit illustrations add

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to the readability of the text. The authors have covered some important topics such as electromagnetic field theory, electrostatics, electrical circuits,

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magnetostatics, network theorems, three-phase systems and electrical machines. A separate chapter on measurement and instrumentation covers important topics including

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*errors in measurement,
electro-mechanical
indicating instruments,
current transformers and
potential transformers in
detail. Pedagogical
features are interspersed*

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*throughout the book for
better understanding of
concepts.*

*This second edition,
extensively revised and
updated, continues to
offer sound, practically-*

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*oriented, modularized
coverage of the full
spectrum of fundamental
topics in each of the
several major areas of
electrical and electronics
engineering. Circuit*

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*Theory Electrical
Measurements and Measuring
Instruments Electric
Machines Electric Power
Systems Control Systems
Signals and Systems Analog
and Digital*

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*Electronics including
introduction to
microcomputers The book
conforms to the syllabi of
Basic Electrical and
Electronic Sciences
prescribed for the first-*

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year engineering students.

It is also an ideal text

for students pursuing

diploma programmes in

Electrical Engineering.

Written in a

straightforward style with

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*a strong emphasis on
primary principles, the
main objective of the book
is to bring an
understanding of the
subject within the reach
of all engineering*

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*students. What is New to
This Edition :
Fundamentals of Control
Systems (Chapter 24)
Fundamentals of Signals
and Systems (Chapter 25)
Introduction to*

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*Microcomputers (Chapter
32) Substantial revisions
to chapters on
Transformer, Semiconductor
Diodes and Transistors,
and Field Effect
Transistors Laplace*

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*Transform (Appendix B)
Applications of Laplace
Transform (Appendix C)
P Spice (Appendix E) key
Features : Numerous solved
examples for sound
conceptual understanding*

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*End-of-chapter review
questions and numerical
problems for rigorous
practice by students
Answers to all end-of-
chapter numerical problems
An objective type*

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*Questions Bank with
answers to hone the
technical skills of
students for viva voce and
preparation for
competitive examinations.
Fundamentals of Electrical*

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Engineering

*Basic Electrical and
Electronics Engineering
Engineering Basics:
Electrical, Electronics
and Computer Engineering*

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***Basic Electrical
Engineering 2e provides a
lucid exposition of the
principles of electrical
engineering for both
electrical as well as non-
electrical undergraduates***

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***of engineering. Students
pursuing diploma courses
as well as those
appearing for AMIE
examinations would also
find this book extremely
useful.***

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***Basic Electrical and
Electronics Engineering:
For PTU is a student-
friendly, practical and
example-driven book that
gives students a solid
foundation in the basics***

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***of electrical and
electronics engineering.
The contents have been
tailored to exactly
correspond with the
requirements of the core
course, Basic Electrical***

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Muthusubramanian
and Electronics

***Engineering, offered to
the students of Punjab
Technical University in
their first year. A rich
collection of solved
examples and chapters***

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***mapped to the university
syllabus make this book
indispensable for
students.***

***basic electrical and
electronics laboratory
manual for engineering***

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***and diploma in
engineering courses
FUNDAMENTALS OF
ELECTRICAL AND
ELECTRONICS
ENGINEERING
Basic Electrical and***

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***Electronics Engineering:
Basic Electrical
Engineering
BASIC ELECTRICAL AND
ELECTRONICS
ENGINEERING.***

‘ BASICS OF ELECTRICAL

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ENGINEERING AND ELECTRONIC COMPONENTS ' is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering. This book is designed for comprehensively covering all

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topics relevant to the subject. Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education, Karnataka. This book is divided into eight chapters: Chapter 1 –

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Basics of Electricity Chapter 2 –
Electrostatics Chapter 3 –
Electromagnetic Induction Chapter
4 – AC Fundamentals Chapter 5
– AC Circuits Chapter 6 –
Transformers Chapter 7 –
Batteries, Relays and Motors

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Chapter 8 – Passive Components

The text provides detailed explanations and uses numerous easy-to-follow examples accompanied by diagrams and step-by-step solutions. Illustrative problems are presented in terms of

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commonly used voltages and current ratings. To enhance the utility of the book, important points and review questions (objective and descriptive type) have been included at the end of each chapter. Model question

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papers have been provided to help students prepare better for the semester examinations. Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive

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tests. It is hoped that this book will be of immense use to teachers and students of Polytechnics.

Suggestions for improvement in the future editions of this book will be appreciated. I wish to express my gratitude to MEI Polytechnic,

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Bangalore for providing me an opportunity to bring out this text book. I am grateful to Sri. Nitin S. Shah, M/s Sapna Book House, Bangalore for publishing this book. I am thankful to M/s Datalink, Bangalore for meticulous

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processing of the manuscript of
this book.

This book provides an overview of
the basics of electrical and
electronic engineering that are
required at the undergraduate
level. Efforts have been taken to

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keep the complexity level of the subject to bare minimum so that the students of non electrical/electronics can easily understand the basics. It offers an unparalleled exposure to the entire gamut of topics such as Electricity

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Fundamentals, Network Theory,
Electro-magnetism, Electrical
Machines, Transformers,
Measuring Instruments, Power
Systems, Semiconductor Devices,
Digital Electronics and Integrated
Circuits.

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Engineering Pearson Education
India

Basic Electrical, Electronics and
Measurement Engineering

Basic Electrical and Electronics
Engineering Laboratory Manual

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Instrumentation Engineering
Basic Electrical and Electronics
Engineering: For RGPV