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1. Foundation of Electrical engineering: Ability to understand the principles and working of electrical components, circuits and systems, that are forming a part of power generation, transmission, distribution, energy saving. Students can assess the power management, auditing, crisis and saving aspects. 2.

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BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

Bachelor of Electrical and Electronics Engineering curriculum is designed to prepare the graduates having attitude and knowledge to 1. Have successful technical and professional careers in their chosen fields such as circuit theory, Field theory, control theory and computational platforms. 2.

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The Department of EEE has been a pioneer in the field of Electrical and Electronics Engineering, with core Research and Development in Power Apparatus and Systems for many decades.

Department of Electrical and Electronics Engineering

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Sample BE8254 important questions Basic Electrical and Instrumentation Engineering: Define magnetic reluctance The opposition offered by the magnetic circuit for the magnetic flux path is known as magnetic reluctance. It is analogous to electric resistance. Mention some magnetic materials Alnicos, chromium steels, copper-nickel alloy, nickel, cobalt, tungsten and aluminium.

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Course Code Course Title L T P C THEORY HS8151 Technical English I 3 1 0 4 MA8151 Mathematics I 3 1 0 4 PH8151 Engineering Physics 3 0 0 3 CY8151 Engineering Chemistry 3 0 0 3

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

This book Basic Electrical and Electronics Engineering has a perfect blend of focused content and complete coverage. Simple, easy-to-understand and difficult-jargon-free text enhances the utility of the book and makes it a lasting resource for students and instructors. □ Comprehensive coverage with lucid presentation style □ Rich exam-oriented pedagogy □ Solved numerical examples within chapters □ Unsolved review questions □ Multiple-choice questions

Electrical and instrumentation engineering is changing rapidly, and it is important for the veteran engineer in the field not only to have a valuable and reliable reference work which he or she can consult for basic concepts, but also to be up to date on any changes to basic equipment or processes that might have occurred in the field. Covering all of the basic concepts, from three-phase power supply and its various types of connection and conversion, to power equation and discussions of the protection of power system, to transformers, voltage regulation, and many other concepts, this volume is the one-stop, "go to" for all of the engineer's questions on basic electrical and instrumentation engineering. There are chapters covering the construction and working principle of the DC machine, all varieties of motors, fundamental concepts and operating principles of measuring, and instrumentation, both from a "high end" point of view and the point of view of developing countries, emphasizing low-cost methods. A valuable reference for engineers, scientists, chemists, and students, this volume is applicable to many different fields, across many different industries, at all levels. It is a must-have for any library.

The aim of this book is to provide a consolidated text for the first year B.E. Computer Science and Engineering students and B.Tech Information Technology students of Anna University. The syllabus has been thoroughly revised for the non-semester yearly pattern by the University. The book, made up of five chapters, systematically covers the five units of the syllabus. It begins with a detailed discussion on the fundamentals of electric circuits. DC circuits, AC circuits, 3-phase circuits, resonance and the network theorems. Lecture-type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book. Magnetic circuits and various magnetic elements and their properties, with number of illustrations are presented. DC machines and transformers are further dealt with. Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better. Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book. A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers.

The third edition of Basic Electrical Engineering is designed for the first year engineering students of University of Mumbai. The crisp yet complete explanation of topics will help the students easily understand the basic concepts. A plethora of various solved examples and exercise problems will enable students to practice better and excel in examinations. Salient Features: - Complete coverage of latest MU syllabus - Steps for drawing phasor diagrams have been covered in detail - Each section concludes with exercises, review questions and multiple choice questions to test understanding of topics - Examination-oriented pedagogy: * Solved MU problems within chapters: 106 * Solved examples within chapters: 340 * Unsolved exercise problems: 251 * Chapter end review questions: 56 * Multiple Choice Questions: 126

Designed For Entry-Level Engineering Students, This Book Presents A Thorough Exposition Of Electrical, Electronics, 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 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 RecallAll These Features Make This Book An Ideal Text For Both Degree And Diploma Students Engineering.

The book comprehends the latest Anna University syllabus on the course Electrical Engineering and Instrumentation which is designed for the third year ECE students of Anna University. The book has a perfect blend of focused content coverage and solved Anna University question papers which will be extremely handy to the students. Salient features - Crisp content strictly as per the latest Anna University syllabus of Electrical Engineering and Instrumentation (Code:EE63S2) - Previous Anna University solved questions are appropriately incorporated as: □ Long Questions: Tagged with text □ Short Questions: End of the chapter - Rich pedagogy: □ Solved examples: 214 □ Solved Two Marks questions: 381 □ Review Questions: 308 □ MCQs: 155 □ Illustrations: 487

Basic Electronics and Devices is designed specifically to cater to the needs of students of B. Tech. in Electrical and Electronics Engineering. The book has a perfect blend of focused

content and complete coverage. Lucid text with several solved examples, circuit diagrams and adequate questions elucidate the fundamentals of electronics Salient Features: - Comprehensive syllabus coverage - An easy-to-understand text using tutorial approach - Rich pool of pedagogy – solved examples, exercise questions, objective type questions

UNIT I - ELECTRICAL CIRCUITS ANALYSIS Ohms Law, Kirchhoff's Law-Instantaneous power- series and parallel circuit analysiswith resistive, capacitive and inductive network - nodal analysis, mesh analysisnetworktheorems - Thevenins theorem, Norton theorem, maximum power transfertheorem and superposition theorem, three phase supply-Instantaneous, Reactive andapparent power-star delta conversion.UNIT II - ELECTRICAL MACHINES DC and AC rotating machines: Types, Construction, principle, EMF and torqueequation, 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 OF ELECTRICAL POWER Renewable energy sources-wind and solar panels. Illumination by lamps- SodiumVapour, Mercury vapour, Fluorescent tube. Domestic refrigerator and air conditioner-Electric circuit, construction and working principle. Batteries-NiCd, Pb Acid andLi ion-Charge and Discharge Characteristics. Protection-need for earthing, fusesand circuit breakers. Energy Tariff calculation for domestic loads.UNIT IV - ELECTRONIC 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 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 and watt meter. Transducers-classification-thermo electric, RTD, Strain gauge, LVDT, LDR and piezoelectric.Oscilloscope-CR

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