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Basic Electrical Engineering - Department of Applied Sciences and Engineering - This presentation provides information on Basic Electrical Engineering and AC fundamentals. It is presented by Prof. A. B. Kasar, from the department of Applied Sciences and Engineering at International Institute of Information Technology, IZIT.

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Chapter 1 Introduction 1.1Themes1 From its beginnings in the late nineteenth century, electrical engineering has blossomed from focusing on electrical circuits for power, telegraphy and telephony to focusing on a much broader range of disciplines.

### Fundamentals of Electrical Engineering I

2 FUNDAMENTALS OF ELECTRICITY We will start with an overview to introduce you to the main points about these devices, and the parts that make them. Then we will step through each of these topics in detail: Section Title Page Number • Introduction to Electricity 3 • Characteristics 3 • Current 4 • Voltage 5 • Resistance 6 • Review 1 9 • Ohm's Law 10 ...

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Fundamentals Chapter 1 1.1.1 Units Wherever measurements are performed there is a need for a coherent and practical system of units. In science and engineering the International System of units (SI units) form the basis of all units used. There are seven ' base ' units from which all the other units are derived, called derived units.

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1. Basic Electrical Engineering - By M.S.Naidu and S. Kamalshah TMH. 2. Basic Electrical Engineering By T.K.Nagasarkar and M.S. Sukhija Oxford University Press. 3. Electrical and Electronic Technology by hughes Pearson Education. REFERENCES : 1. Theory and Problems of Basic Electrical Engineering by D.P.Kothari & I.J. Nagrath PHI. 2.

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electrical circuits for power, telegraphy and telephony to focusing on a much broader range of disciplines. However, the underlying themes are relevant today: Power creation and transmission and information have been the underlying themes of electrical engineering for a century and a half. This course concentrates on