

DEPARTMENT OF CSE
Subject: Basic Electrical & Electronics Engineering

UNIT – 1

ELECTRICAL CIRCUIT

Basic Circuit Components.

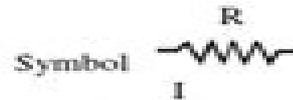
The Three basic circuit components are

1. Resistor.
2. Capacitor.
3. Inductor.

1. Resistor

It is defined as the property of the material by which it opposes the flow of current through it.

- Denoted by R
- Unit (Ω) Ohms



The relation between V & I is given by Ohm's law

$$V = IR$$

2. Capacitor.

Capacitor is a storage element which can store and deliver energy in electrical field.

- Denoted as C
- Unit is Farad (F).



3. Inductor

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BM King



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The Engineer, 1919 Engineering Record, Building Record and Sanitary Engineer Charles Frederick Wingate, Henry C. Meyer, 1909 Materials of the Tutorial Course EECS 760, Winter 1989, 1989 *College of Engineering (University of Michigan) Publications* University of Michigan. College of Engineering, 2011 Also contains brochures directories manuals and programs from various College of Engineering student organizations such as the Society of Women Engineers and Tau Beta Pi **Commerce Business Daily**, 1999 **The Electrical Journal**, 1956 **Notes on Principles of Electrical Engineering (basic Course)** Massachusetts Institute of Technology. Department of Electrical Engineering, 1935 **Work**, 1901 IEEE Membership Directory Institute of Electrical and Electronics Engineers, 1996 **The Railway Magazine**, 1989 **Journal of the Electrochemical Society**, 1961 *Radio Science*, 1988 **Forthcoming Books** Rose Arny, 1996-06 *Moody's International Manual*, 1992 **Index to Scientific & Technical Proceedings**, 1979-07 Monthly with annual cumulation Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors Includes proceedings in all formats i e books reports journal issues etc Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings with accompanying category permuterm subject sponsor author editor meeting location and corporate indexes Contains abbreviations used in organizational and geographical names **Science Citation Index**, 1994 Vols for 1964 have guides and journal lists Lecture Notes on Electrical Engineering, 1915 Notes of Lectures on Electrical Engineering Frederic Auten Combs Perrine, 1894 **Notes and Problems for a First Course in Electrical Engineering** Robert Page Ward, 1939 **Lecture Notes Prepared for the Fifteenth School in Power System Electrical Engineering** Michael John Gibbard, A. M. Parker, 1980

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