

# Basic electrical engineering notes 1st sem

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**What are the first topics in electrical engineering?** Here are some key topics commonly included in introductory electrical engineering courses: Circuit Analysis: Ohm's Law and Kirchhoff's Laws Series and parallel circuit, node and mesh analysis. Electricity and Magnetism: Electric charge and electric field, magnetic fields and magnetic circuits Electromagnetic induction.

**What are the basic electrical parameters notes?** This electric current takes the form of free electrons that transfer from one atom to the next. Thus, the more free electrons a material has, the better it conducts. There are three primary electrical parameters: the volt, the ampere and the ohm.

**What is the basic of electrical engineering?** Electrical engineering is a technical discipline concerned with the study, design, and application of electricity! Through electrical engineering, we can design devices and systems using electrical components such as resistors, capacitors, transistors, etc.

**What is electric shock VTU?** An electric shock occurs when a person comes into contact with an electrical energy source. Electrical energy flows through a portion of the body causing a shock.

**What is the hardest subject in electrical engineering?**

**What are the 5 major fields of electrical engineering?** What are the major fields of electrical engineering? Electrical engineering includes numerous specialized subfields. Major branches include power engineering, control systems, communications, electronic engineering, microelectronics, optics and photonics.

**How to define Ohm's law?** Ohm's Law Statement : Ohm's law states that the voltage across a conductor is directly proportional to the current flowing through it, provided all physical conditions and temperature, remain constant.

**What are the 4 basic electrical quantities?** The electrical quantities are charge, current, voltage, power and energy.

**What are the three basic rules of electricity?**

**What are 5 things electrical engineers do?** Electrical engineers design, develop, test, and supervise the manufacture of electrical equipment, such as electric motors, radar and navigation systems, communications systems, or power generation equipment. Electrical engineers also design the electrical systems of automobiles and aircraft.

**What is the basic electrical formula?** Voltage can be calculated using the formula  $V = E / Q$  or  $V = W / Q$ , where  $V$  is voltage,  $E$  is energy,  $W$  is work done, and  $Q$  is charge.

**What are the five electrical fundamentals?** These are resistance, capacitance, inductance, reactance, and impedance.

**What are the 4 types of electrical shock?** The four main types of electrical injuries are: (1) electrocution that causes death or serious injury; (2) electric shock injury; (3) burns (which can be both disabling and disfiguring); and (4) trauma to the brain resulting in neurologic consequences such as memory loss and difficulty performing normal tasks.

**How many volts is a static shock?** Under severe conditions, up to 15,000 Volts have been recorded. It is quite common to experience 5,000V. In fact, many people do not feel a shock from a static electricity discharge less than about 2,000-4,000V.

**What is ECT voltage?** Typically, 70 to 120 volts are applied externally to the patient's head, resulting in approximately 800 milliamperes of direct current passing between the electrodes, for a duration of 100 milliseconds to 6 seconds, either from temple to temple (bilateral ECT) or from front to back of one side of the head (unilateral ...

**What is the toughest engineering?** A. The top 5 most difficult engineering courses in the world are nuclear engineering, chemical engineering, aerospace engineering, biomedical engineering and civil engineering.

**Which branch of electrical engineering is the hardest?** What is the most difficult electrical engineering sub-discipline/concentration ? Although this is a biased answer, but I think computer engineering is the hardest concentration/sub-discipline. I say this because you have to know hardware and software really well. I would say learning software is more challenging.

**What is the hardest math in electrical engineering?** Electromagnetic Theory: This course covers electromagnetism, Maxwell's equations, and electromagnetic wave propagation. It is known for its demanding mathematical derivations and abstract concepts, which can feel disconnected from real-world applications.

**Which engineering has the highest salary?**

**Which country gives the highest salary to electrical engineers?** Which country pays the highest salary for electrical engineers? Switzerland(Average Salary – CHF 90,700) has a higher demand for electrical engineers and pays the highest salary compared to other countries worldwide.

**Where do electrical engineers get paid the most?**

**What is the start of electrical engineering?** Electrical engineering may be said to have emerged as a discipline in 1864 when the Scottish physicist James Clerk Maxwell summarized the basic laws of electricity in mathematical form and showed that radiation of electromagnetic energy travels through space at the speed of light.

**What is the first rule of electrical engineering?** Kirchhoff's first law is also known as Kirchhoff's current law and also a basic rule of electrical engineering. It says that nodes appear if resistances are parallel connected. Those nodes are called nodes of the electric current.

**What are the 3 primary sub fields of electrical engineering?**

**What is the topic of electrical engineering?** Electrical engineering – field of engineering that generally deals with the study and application of electricity,  
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electronics and electromagnetism. The field first became an identifiable occupation in the late nineteenth century after commercialization of the electric telegraph and electrical power supply.

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