Academic Qualifications

A candidate should have passed 10+2 or equivalent with physics, chemistry and mathematics as compulsory subjects. One can obtain a diploma in Electrical Engineering. Reputed colleges, universities and the Indian Institute of Technologies (IITs) offer B.E, B.Tech, M.E, M.Tech and doctoral degrees.

Specialization

Academic programs on electrical engineering emphasize on the thorough understanding of electrical networks, electrical energy converters, devices of electromagnetic field theory, electrical energy distribution systems etc.

Scope

Scopes in electrical engineering lie in the areas of generating electricity, its distribution and transmission. Electrical engineering also has its applications in electronics, telecommunications, computers and micro processors. Most of the courses are a combination of electrical and electronic systems.

Job Opportunities

An electrical engineer has a wide range of activities, and thus, a lot of options. Career in electrical engineering encompasses the following fields:

Telecommunications Systems

Electric Power Stations

Wiring and lighting of houses

Designing household appliances

Electrically-controlled industrial machinery

Communications

Computers

Electronics

Robotics

Biomedical electronics

Signal processing

Transportation

Industrial process control

Energy operation and distribution

Electro-mechanical energy conversion

Many electrical engineering graduates opt for careers in the food, pulp and paper, chemical, aircraft and automobile industries.