

the engineering degree teaches students important methods and principles in electrical and electronics. It equips them with knowledge in electrical circuit analysis, analog and digital integrated circuit design, communication circuit design, digital and digital signal processing, embedded system design, mechatronics, optics, power electronics, semiconductor devices, software for signal and image processing, and technology for computer aided design. the engineering program also provides students with exposure in subjects like electrical motors, supply and power systems, distributed control system, control engineering, intelligent control, and control system. the engineering program also provides students with exposure to life sciences and computer applications, the program not only prepares students to work in the electronics industry, but also helps them design and develop industry solutions for new technological developments. the bachelor of technology in electronics and communications engineering degree prepares students for employment in areas such as radio electronics, satellite communication, base station technology, wireless and mobile communications, and telecommunications. students also need to have knowledge of control systems and networking in order to work in the it sector. they are responsible for maintenance and repair of equipment including telephone systems, radio and television transmitters, and electronic switching systems. engineers also maintain the safety of equipment. about 60% of electronic engineers work in the central and local telephone companies, which are now developing and operating sophisticated telecommunications systems and equipment. electronic engineers can work in manufacturing, computer systems, or information technology.



the topics and concepts under electronics and communication engineering are divided into eight sections, as per the latest gate exam syllabus for ece. according to the gate syllabus for ece, seven sections constitute the main topics such as engineering mathematics, networks, signals and systems, electronic devices, analog circuits, digital circuits, control systems, communications and electromagnetics. electrical and electronics engineers also must be able to work effectively under pressure and must be able to manage their time and other resources. it is important that candidates be able to balance their academic responsibilities with their personal lives, and they must have the self-discipline necessary to work efficiently. electrical engineers who specialize in the study of electronics and computer science are known as electronics engineers. computer engineers typically develop software and hardware. some electronics and computer engineers work in the design and testing of chips and other components used in computers. electrical and electronics engineers apply their technical knowledge and creativity to a wide range of problems. they may work on the design and development of products such as power plants, medical devices, or automobiles. they may also help to design communication systems, such as telephone and radio networks. it is important that candidates have a strong grasp of mathematics. general knowledge of electronics and communications theory and practice is also useful. in addition, candidates should have a good knowledge of test equipment, the characteristics of electronic circuits, and the physical and electrical properties of materials. 5ec8ef588b

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