

# ELECTRICAL ENGINEERING SEM 1

## GTU

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**What are the subjects in electrical engineering in GTU?** The major subjects in Electrical Engineering are Power systems, Electrical Machines and Drives, Control Engineering, Analog and Digital Electronics, Power Electronics, Microprocessors & Microcontrollers.

**What is the GTU code for basic electrical engineering?** Basic Electrical Engineering (3110005)

**What is electrical engineering 1?** Electrical engineering is the field of engineering, concerned with the study, designing, and use of appliances and equipment which use any form of electricity. Therefore, it also includes electromagnetism.

**What is the GPA for electrical engineering?** **\*\*Undergraduate Level:\*\*** For most engineering careers, having a GPA in the range of 3.0 to 3.5 or higher is considered good.

**How many topics are in electrical engineering?** Electrical engineering is divided into a wide range of different fields, including computer engineering, systems engineering, power engineering, telecommunications, radio-frequency engineering, signal processing, instrumentation, photovoltaic cells, electronics, and optics and photonics.

**Which subjects are best for electrical engineering?** The subjects that universities are most interested in when considering prospective students, are maths and physics. High grades in these subjects will give students a better chance at being accepted onto a university programme. Other desirable subjects include the other

sciences, biology and chemistry, and technology.

**Where to start learning electrical engineering basics?** When exploring the world of electronics, it is vital to start by understanding the basics of voltage, current and resistance. These are the three basic building blocks required to manipulate and utilize electricity. With a constant voltage source, we can see how current and resistance change.

**Is there coding in electrical engineering?** Electrical/electronics engineers use both low-level and high-level coding languages to program and test hardware. One of the biggest challenges in programming and verifying hardware is to have knowledge about how each component works and understand its characteristic curves.

**What are the basic units of electrical engineering?** Volts, amps, ohms, and watts are therefore the four fundamental units of electricity.

**Is EEE better than ECE?** Both the engineering branches are equally good but it all depends upon the field of interest of an individual. Personally, I feel that the stream might be unique but the only thing a student should focus on is the future goal. Once, he is sure with that, he can then choose the stream of his choice.

**What is the hardest engineering major?**

**How difficult is electrical engineering?** Electrical engineering courses are often considered among the most difficult in the engineering curriculum, and they require a lot of time and effort to master. Electrical engineering students have to cope with a heavy workload, tight deadlines, and high expectations from their professors and peers.

**Is 2.75 GPA good in engineering?** According to the National Center for Education Statistics, the median GPA for engineering and engineering technology majors was 3.24 as of 2020—slightly below the median of 3.28 across all majors.

**Is a 3.5 a good engineering GPA?** Good GPAs will help you secure scholarships, gain employment, and more. A high GPA is critical to your future career success. An excellent engineering GPA often ranges from 3.0 to 3.8.

**What is a good CGPA for electrical engineering?**

**What is the subject combination for electronic engineering?** DIRECT ENTRY REQUIREMENTS Passes at HSC or GCE A/L in at least two of the following: Pure Mathematics, Applied Mathematics, Physics and Chemistry. The Candidate is also required to have five credit level passes which must include Mathematics, Physics and Chemistry in SSCE, GCE "O" Level, WAEC or their equivalent.

**What are the basic units of electrical engineering?** Volts, amps, ohms, and watts are therefore the four fundamental units of electricity.

**What is electrical and electronics subject?** Electrical & Electronic Engineering is the study and application of electricity, electronics and electromagnetism. Electrical engineering is the broader field of engineering. The electronic element of the subject is specific to circuits, devices and systems.

**How many courses are there in GTU?** Gujarat Technological University offers BE, ME, MTech, MSc, MBA, PhD, Certificate, and PG Diploma. 1) Around 35k+ students got admissions into this course during 2020- 2022.

**Who wrote the biography of Indira Gandhi?** Pupul Jayakar was an author and Indian cultural activist. She was also a close personal friend to the Nehru-Gandhi family. Jayakar authored notable books such as Indira Gandhi: A Biography, J. Krishnamurti: A Biography, Fire in the Mind: Dialogues with J.

**Is Indira Gandhi related to Gandhiji?** The Indian National Congress's prominent Gandhi family is not related to Mahatma Gandhi. Jawaharlal Nehru and his daughter Indira Gandhi, who both served as prime minister of India, were close associates of the Mahatma. However, Indira's surname came from her husband, Feroze Gandhi.

**Who was the mentor of Indira Gandhi?** Dharendra Brahmachari was also yoga mentor of Indira Gandhi –The former prime minister of India He ran ashrams in Bhondsi (Gurugram in Delhi NCR), Jammu, Katra and Mantalai (near Sudhmahadev in Udhampur district of Jammu and Kashmir) and wrote books on yoga.

**What is the relationship between Nehru and Gandhi?** Mahatma Gandhi was the father figure for Nehru and also his political guru. Initially, when Mahatma Gandhi

came to India from South Africa, it was Jawaharlal's father Motilal Nehru who introduced Gandhi to key persons of Congress party as Motilal was a senior leader of Congress at that time.

**Why was Mahatma Gandhi assassinated?** In an effort to end India's religious strife, he resorted to fasts and visits to the troubled areas. He was on one such vigil in New Delhi when Nathuram Godse, a Hindu extremist who objected to Gandhi's tolerance for the Muslims, fatally shot him.

**What is the relation between Indira Gandhi and Priyanka Gandhi?** She is the daughter of former Prime Minister of India Rajiv Gandhi and Sonia Gandhi, sister of Rahul Gandhi, and granddaughter of Feroze and Indira Gandhi, making her a member of the politically prominent Nehru-Gandhi family.

**Did Indira Gandhi get assassinated?**

**Who was the husband of Indira Gandhi?** Feroze Jehangir Gandhi (12 September 1912 – 8 September 1960) born as Feroze Jehangir Ghandy, was an Indian freedom fighter, politician and journalist. He served as a member of the provincial parliament between 1950 and 1952, and later a member of the Lok Sabha, the Lower house of Indian parliament.

**What is the ghost of Mrs Gandhi about?** In his essay 'The Ghosts of Mrs. Gandhi' the novelist talks about the apocalyptic vision of Indian socio-political scenario during 1984 caused by the separatist violence in Punjab, the military attack on the great Sikh Temple of Amritsar; the assassination of the Prime Minister , Mrs.

**The Eagle and the Peacock: US Foreign Policy Toward India Since Independence**

**1. What were the initial relations between India and the United States after independence?**

Initially, India pursued a policy of non-alignment, seeking to avoid entanglements in Cold War politics. The United States, on the other hand, viewed India as a potential ally in the containment of communism. However, tensions arose over India's recognition of China and its neutrality in the Vietnam War.

## **2. How did US policy shift during the Nixon administration?**

President Nixon adopted a more pragmatic approach towards India, recognizing the country's strategic importance. In 1971, the United States tacitly supported India's intervention in the Bangladesh Liberation War, which weakened Pakistan and strengthened India's position in the region.

## **3. What impact did the Cold War have on US-India relations?**

The Cold War created both opportunities and challenges for US-India relations. India's non-aligned stance allowed it to play a mediating role in some international disputes, but also raised concerns in Washington about India's potential to tilt towards the Soviet Union.

## **4. How has US-India relations evolved since the end of the Cold War?**

Post-Cold War, India and the United States have strengthened their ties. Shared concerns over terrorism, climate change, and China's rising influence have drawn the two countries closer. They have established a strategic partnership, increased military cooperation, and deepened economic ties.

## **5. What are the challenges and opportunities facing US-India relations today?**

While US-India relations are generally strong, there are ongoing challenges, including India's purchase of weapons systems from Russia and its reservations about the US-China trade war. Nonetheless, both countries recognize the strategic importance of their cooperation and are working to address these issues.

**What is the chemical composition of baobab fruit?** The elemental analysis showed that potassium is the most abundant element in the baobab fruit pulp (586.01 mg/ 100 g), followed by calcium (344.07 mg/ 100 g), magnesium (196.37 mg/ 100 g), sodium (5.99 mg/ 100 g), iron (4.81 mg/ 100 g), manganese (0.88 mg/ 100 g) and copper (0.60 mg/ 100 g).

**Where is the baobab tree found in India?** Mandu, in Dhar district of Madhya Pradesh, is perhaps the only place in India where baobab trees are found in abundance, with an estimated 1,000 trees in the periphery of Mandu town.

**Where are the baobab trees?** Where do Baobab trees grow? Baobabs are widely distributed in belts across Africa. They also grow in Madagascar, India, Ceylon and Australia.

**What are the benefits of baobab tree in India?** As baobab is a rich natural source of vitamin C, it is easily accessible to the body and is better absorbed than artificial supplements. Sprinkle some baobab onto your iron-rich foods for a lemony zing or shake it into your water when taking your iron supplements.

**What minerals are in baobab fruit?** The pulp of the studied baobab fruits is a valuable source of minerals and vitamins, particularly of vitamin C (mean  $175 \pm 62$  mg/100 g edible portion on fresh weight basis (EP)), potassium (mean  $1006 \pm 280$  mg/100 g (EP)) and calcium (mean  $375 \pm 93$  mg/100 g EP).

**What are the phytochemicals in baobab fruit?** 3.1. The qualitative phytochemical screening assay of baobab fruit pulp powder was conducted using the aqueous extract. The assay revealed that five of the eight sought phytochemical groups, namely, flavonoids, phenols, saponins, tannins, and terpenoids were detected in the aqueous extract (Table 1).

**What are the side effects of baobab?** Though baobab has a good nutritional value and its consumption is considered beneficial, there are certain downsides to it, such as: The seeds and pulp contain certain antinutrients, especially phytates, tannins, and oxalic acid, which interfere with and reduce the absorption of nutrients.

**What is unusual about the baobab tree?** Known for its massive trunk, it can store large amounts of water. Baobabs are often called “trees of life” due to their ability to provide food, water, and shelter. They have a lifespan of several thousand years, symbolizing longevity and resilience.

**Which country has the most baobab?** The Baobab Tree is a truly remarkable plant, able to survive in harsh and arid environments thanks to its ability to store large amounts of water in its trunk. The Baobab Tree is found throughout Madagascar, but it is most commonly found in the western regions of the country.

**What is the secret of the baobab tree?** Over time, the Baobab has adapted to its environment. It is a succulent, which means that during the rainy season it absorbs

and stores water in its vast trunk, enabling it to produce a nutrient-dense fruit in the dry season when all around is dry and arid. This is how it became known as "The Tree of Life".

**Which diseases does the baobab tree heal?** Traditionally, baobab leaves, bark, and seeds have been used to treat “almost any disease,” including malaria, tuberculosis, fever, microbial infections, diarrhea, anemia, toothache, and dysentery. The leaves and fruit pulp have been used to reduce fever and stimulate the immune system.

**What are 3 facts about baobab trees?**

**What is the spiritual use of the baobab tree?** The tree's longevity, resilience, and ability to provide sustenance in harsh environments have made it a symbol of strength and endurance. In various African myths and legends, the baobab tree is believed to connect the heavens and the earth, serving as a bridge between the spiritual and physical realms.

**What is the medicinal value of baobab?** Baobab is a fruit that has been associated with a number of impressive health benefits. In addition to supplying many important nutrients, adding baobab to your diet may aid weight loss, help balance blood sugar levels, reduce inflammation and optimize digestive health.

**Why is the baobab tree sacred?** In Africa, it is said that man cannot survive without them. They are the only tree whose trunk can be dug out and filled with water without dying or rotting. As well as being the receptacle of a precious beverage, it houses the souls of ancestors within its roots.

**Is baobab acidic or alkaline?** Alkaline foods have become more important in balancing our body's PH levels and improving overall health. Baobab Powder's ease of use, antioxidant power, vitamin/mineral properties, and very high alkaline content can be very beneficial in preventing diseases.

**Does baobab have magnesium?** A baobab is a multi-purpose tree mostly valued for food and traditional medicine. The root tubers, twigs, fruits, seeds, leaves and flowers are all edible and have been found to possess various minerals (calcium, iron, copper, manganese, zinc, potassium, magnesium) and phytochemicals<sup>8</sup>.

### **What vitamins are in baobab?**

**Are there polyphenols in baobab?** The baobab fruit, which grows in the hot, dry climate of the African Savanna, is uniquely rich in polyphenols. Research shows that the polyphenols in baobab are responsible for their low glycemic properties, which support a balanced metabolism of sugars.

**What minerals are in baobab?** In terms of mineral content, baobab leaf is an excellent source of calcium, iron, potassium, magnesium, manganese, molybdenum, phosphorus, and zinc.

**Is baobab a probiotic?** Baobab fruit pulp is extremely high in fibre (almost 50%) - two thirds of which is soluble. Soluble fibre is a prebiotic, helping stimulate the growth and activity of beneficial probiotic bacteria in the colon and supporting gut health.

**What are the disadvantages of baobab fruit?** Though baobab has a good nutritional value and its consumption is considered beneficial, there are certain downsides to it, such as: The seeds and pulp contain certain antinutrients, especially phytates, tannins, and oxalic acid, which interfere with and reduce the absorption of nutrients.

**What is the nutrient composition of baobab?** In terms of mineral content, baobab leaf is an excellent source of calcium, iron, potassium, magnesium, manganese, molybdenum, phosphorus, and zinc.

**What is the medicinal value of baobab fruit?** Baobab fruit can supply you with vitamins and minerals, help reduce inflammation, and balance blood sugar levels. But because of certain antinutrients, you should keep a moderate intake of this fruit. Baobab is a tree native to certain regions of Africa, Arabia, Australia and Madagascar.

**Is baobab acidic or alkaline?** Alkaline foods have become more important in balancing our body's PH levels and improving overall health. Baobab Powder's ease of use, antioxidant power, vitamin/mineral properties, and very high alkaline content can be very beneficial in preventing diseases.



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