



# ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(An ISO 9001:2015 Certified Institution)

Approved by AICTE - New Delhi, Affiliated to Anna University - Chennai

A.S. Nagar, Elupatti, Thanjavur - 613 403

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7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

## GREEN INITIATIVES AND ENVIRONMENT FRIENDLY CAMPUS

A college green campus that places a high priority on sustainability and environmental consciousness in its operations, policies, and practices is commonly referred to as a "green campus". These are some salient features that are usually connected to a green campus. We place equal emphasis on societal reforms and academic accomplishment in order to develop successful, well-educated people. Addressing the growing ecological issues requires immediate action, with an emphasis on putting eco-friendly policies into place. Sustainable practices are given top priority by the college in its attempts to conserve the environment. To lessen our carbon footprint and encourage greener habits, a number of departments have coordinated a number of events and projects with the help of committed institutional committees. The efforts that have been strengthened and put into action are described in full below.

### TREE PLANTATION:

The protection of the environment is very important to our organization. We regularly start tree-planting initiatives on our campus and in the neighborhood. The College regularly hosts poster contests with an environmental theme and tree-planting events to increase public awareness of nature and natural resources. These initiatives are frequently carried out in coordination with other college committees, cells, and departments. Students and staff, both teaching and non-teaching, actively participate in these tree-planting campaigns.

### ESTABLISHMENT OF ECO-FRIENDLY CAMPUS

For every organization that cares about preserving the environment, an eco-friendly setting is essential. Adopting the "go green" philosophy is the best way to protect the environment. Environmentally friendly items are made with minimal negative effects on the environment in mind, and they drastically reduce pollution of the air, water, and land. Additionally, they are less expensive and have a smaller negative impact on the environment and pollutants. The environment is seriously threatened by activities like pollution, urbanization, deforestation, and global warming. These problems are made worse by air pollution, which is brought on by gases and suspended particles. Because they don't include dangerous additions or chemicals, natural products are safer. In general, utilizing natural, eco-friendly items improves the quality of life without having negative impacts. Our college has taken on a number of environmental protection projects.



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## CONTEXT

Sustainable development is promoted by integrating eco-friendly activities and education on a green campus. It offers a chance to promote environmental culture and create an environmentally friendly model that satisfies environmental requirements. At SJ CET Campus, we value and assume accountability for putting green ideas into practice by educating stakeholders, teachers, and students about the value of upholding a green campus. The college carefully handles garbage from several sources, such as electronic, material, and water waste. This strategy reduces the use of paper and encourages the use of solar-passive buildings and other eco-friendly activities that preserve natural resources. The our college constantly keeps an eye on things like power, water, and hygiene and works to become self-sufficient in those areas. In order to do this, we have developed a green policy that emphasizes improving green landscape and creating.


## GREEN POLICY

Our college's Green Campus, Energy, and Environment Policies aim to foster extracurricular activities that inspire students to contribute to the development of an environmentally sustainable campus. These efforts will result in enhancements to both infrastructure and administrative operations, ultimately improving energy efficiency and environmental sustainability. The key areas of focus for this policy include:

### Clean Campus Initiatives:

- Programs for Landscaping
- Programs to Promote Clean Air (Smoke-Free Campus)
- Improvements to Infrastructure (Solar Power Plant, Energy Installation, Rainwater Harvesting for Water Conservation)
- Processes for Managing Waste
  1. Management of Solid Waste
  2. Management of Liquid Waste
  3. Management of E-Waste
- Campaigns to Raise Awareness
- Audits to Promote Environmental Sustainability
- Audits to Monitor Energy Usage
- Initiative to Make the Campus Plastic-Free



  
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## OBJECTIVE:

Protecting and preserving campus ecological systems and resources:

- Ensure optimal use of environmental resources to meet the needs of current and future generations.
- Integrate environmental issues into green policies and prepare social development programs.
- Work with all stakeholders and the local community to raise awareness, promote adoption of good environmental practices and reduce adverse environmental impacts.
- We are constantly improving our activities in climate protection, adaptation to climate change and conservation of global natural resources.
- Continue to improve the efficient use of all resources, including energy and water, reduce consumption and waste, and prioritize the recovery and recycling of waste where possible.
- Strive to make the campus plastic-free.
- Conduct regular environmental and energy audits.
- Minimize the use of paper in administration by implementing an electronic administration policy.

## INFRASTRUCTURAL ADDITIONS:

As part of ongoing efforts to make the college's campus more environmentally friendly and adhere to sustainable standards, certain infrastructure upgrades have been made without disturbing nature.

## ENERGY CONSERVATION:

Our college is very conscious of energy conservation. All tube lights, fans and switches are numbered so that only the necessary light up. On each floor, support staff and students are trained to turn off lights and fans when not needed. Air conditioners are used only in months when the temperature is uncomfortable. In addition, the air conditioners are set to 25 degrees. Other strategies implemented include limiting the entry of cars, promoting the use of bicycles and banning the use of plastic. A clean environment is the basis of people's health and efficiency. The main purpose of these practices is to educate, raise awareness, promote a sense of environmental responsibility and develop skills to effectively deal with environmental issues and problems.



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## THE PRACTICE:

The college has created an attractive campus with lawns and a botanical garden.

- The current flora and fauna of the campus are preserved.
- Signs and posters promoting ideas such as plastic-free campuses, noise pollution awareness and environmental awareness are prominently displayed throughout the university.
- To save electricity, LED lamps have been installed in the colleges and throughout the campus.

## EVIDENCE OF SUCCESS:

This green campus has proved successful through the following means:

- Regular tree plantations have enriched the flora and fauna of the campus and made it an ecological environment.
- An information campaign promoting a plastic-free campus through strategically placed signs and display boards made the campus plastic-free.
- Students receive information on various environmental topics through workshops, seminars, participation in the National Service System (NSS) and nature club activities.
- A compulsory undergraduate course on environmental awareness has been added to the curriculum to ensure a holistic understanding of students.

## PROOF OF GREEN CAMPUS:



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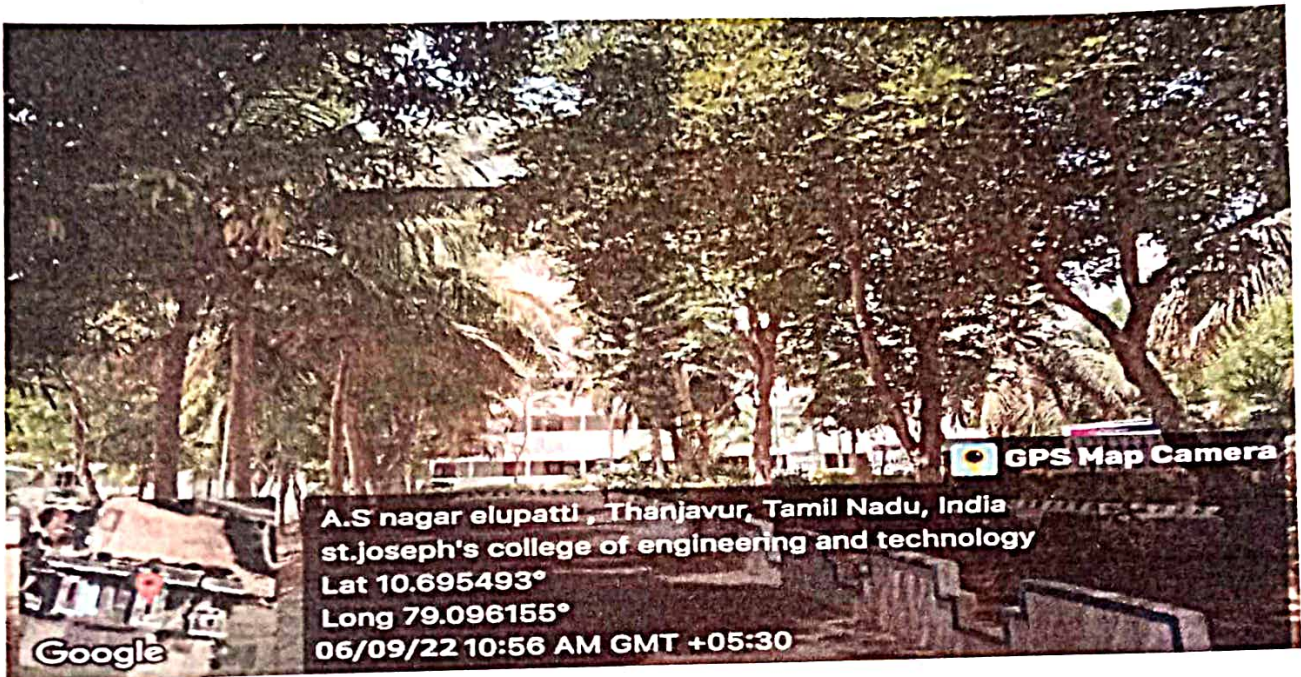
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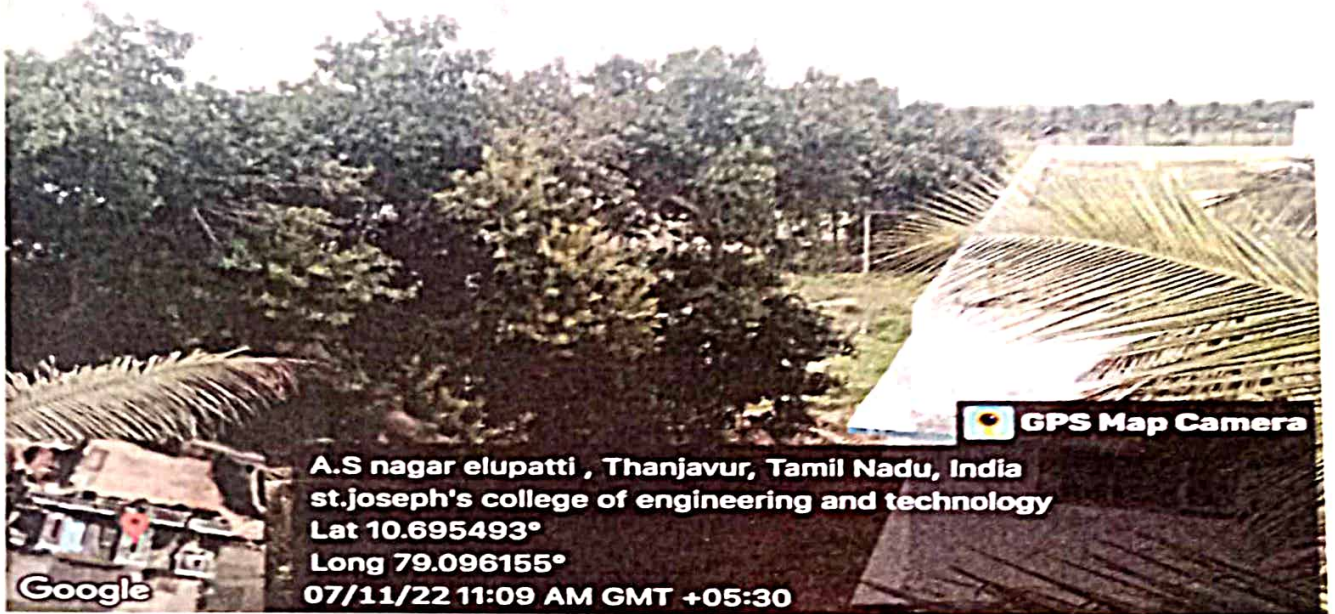
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## ORGANIC FARM:

"Organic farm" generally means farms or structures derived from or similar to living organisms or natural objects. It can have different meanings in different contexts:

- 1. Art and design:** In art and design, organic spaces often refer to shapes or compositions that imitate irregular shapes found in nature, such as leaves, shells or flowing water. They differ from geometric spaces, which are more regular and precise.
- 2. Architecture:** Organic architecture refers to an architectural philosophy that promotes harmony between man and nature. Buildings designed in this style often use natural materials and organic forms that blend into their surroundings.
- 3. Biology:** In biology, organic properties refer to the shapes and structures of living organisms, such as the branching patterns of trees, the spiral shape of shells or the cellular structure of tissues.
- 4. Philosophy and Aesthetics:** In philosophy and aesthetics, organic space can also refer to a principle of organization or composition that suggests growth, harmony and unity, such as natural processes.

In general, "organic space" incorporates a concept that embraces the irregular, fluid and interconnected aspects of nature, often in conflict with the strict regularity of geometric spaces.



  
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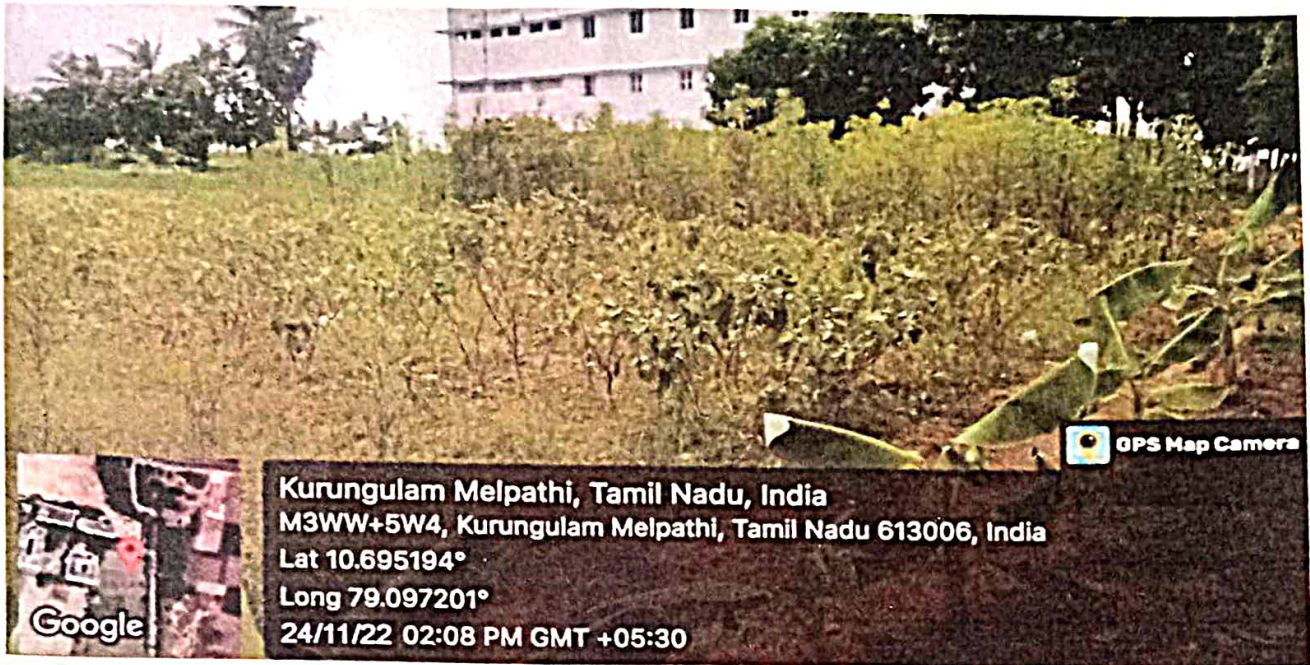
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ORGANIC FARM



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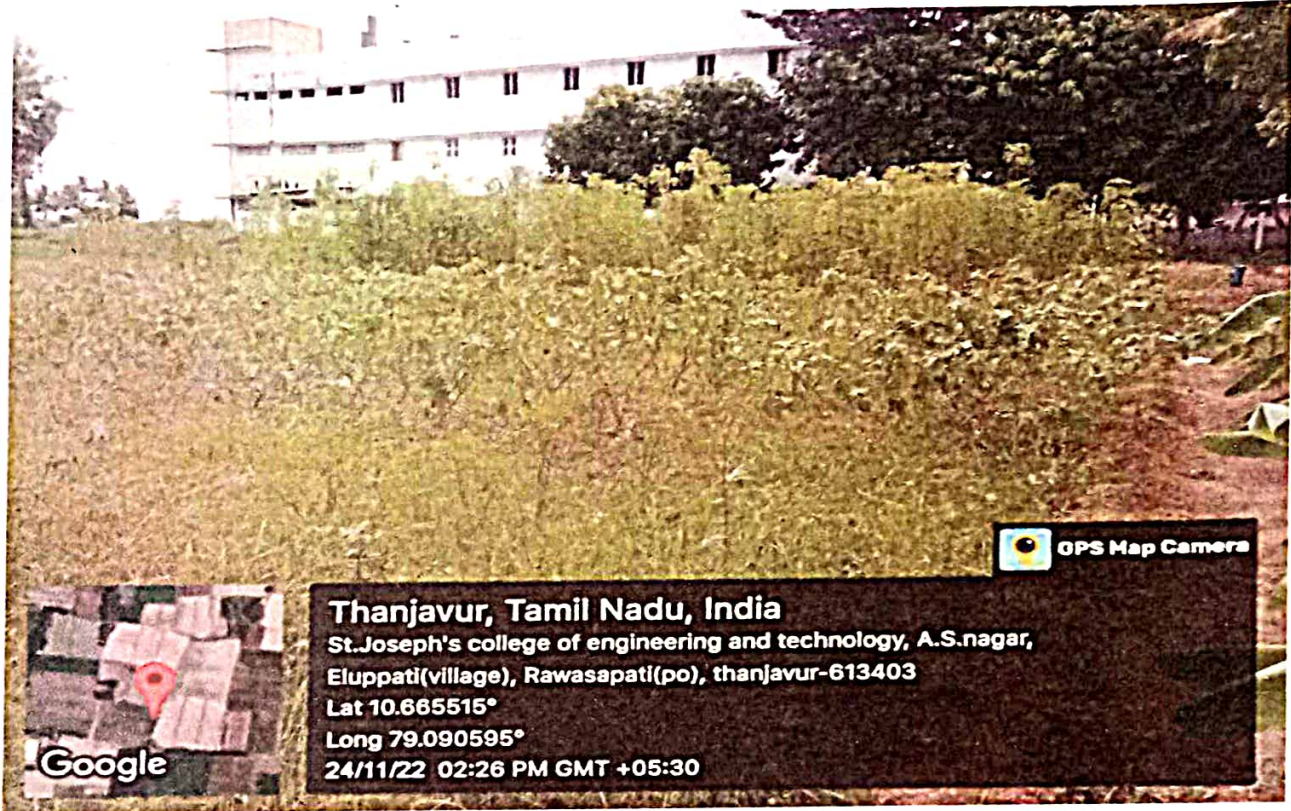
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## ORGANIC FARM

### HERBAL FARM:

"Herbal" usually refers to products or drugs derived from plants or plant extracts. These may include herbal teas, supplements, tinctures or topical applications. Herbal forms are often used in traditional medicine and natural health practices for their perceived healing properties for example, echinacea supports the immune system, lavender relaxes, or properties ginger supports digestion. However, it is important to note that although herbs can have beneficial effects, their effectiveness and safety can vary, and it is recommended to consult a doctor before starting herbal treatment, especially if you have a medical condition or are taking medication. Herb farming means the cultivation of plants mainly for their medicinal, culinary, aromatic or cosmetic use. Here are some of the more common uses and benefits of herb gardening:



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**1. Medicinal uses:** Many herbs have medicinal properties that can be used to treat minor ailments or improve general health. For example, peppermint and chamomile are known for their calming effects, while garlic and echinacea support the immune system.

**2. Culinary use:** Fresh herbs add flavor and nutritional value to food. Common herbs are basil, rosemary, thyme and coriander. Growing these herbs at home ensures a fresh food supply.

**3. Aromatic Properties:** Herbs such as lavender, jasmine and lemongrass have pleasant scents that can be enjoyed in the garden or used in potpourri, sachets or homemade cosmetics

**4. Natural Remedies:** Growing herbs supports the creation of home remedies such as teas, tinctures, salves and creams. It can be a cost-effective and sustainable way to treat minor health problems.


**5. Environmental benefits:** growing herbs at home promotes biodiversity and can attract beneficial insects to your garden. It also reduces the need for chemical pesticides and herbicides.

**6. Educational Opportunities:** Herbology offers hands-on learning experiences for people of all ages. It provides an overview of the life cycle of plants, herbal preparations and the cultural history of herbs.

**7. Sustainability:** Growing herbs in your garden reduces dependence on store bought produce, which may be wrapped in plastic or have a large carbon footprint due to transportation.

**8. Enhance outdoor spaces:** Herb gardens can enhance the beauty and functionality of outdoor spaces, whether in small pots on a balcony or as part of a larger garden landscape. Overall, herb gardening offers many benefits, from promoting well-being and sustainability to enhancing culinary experiences and connecting people with nature and traditional knowledge.



  
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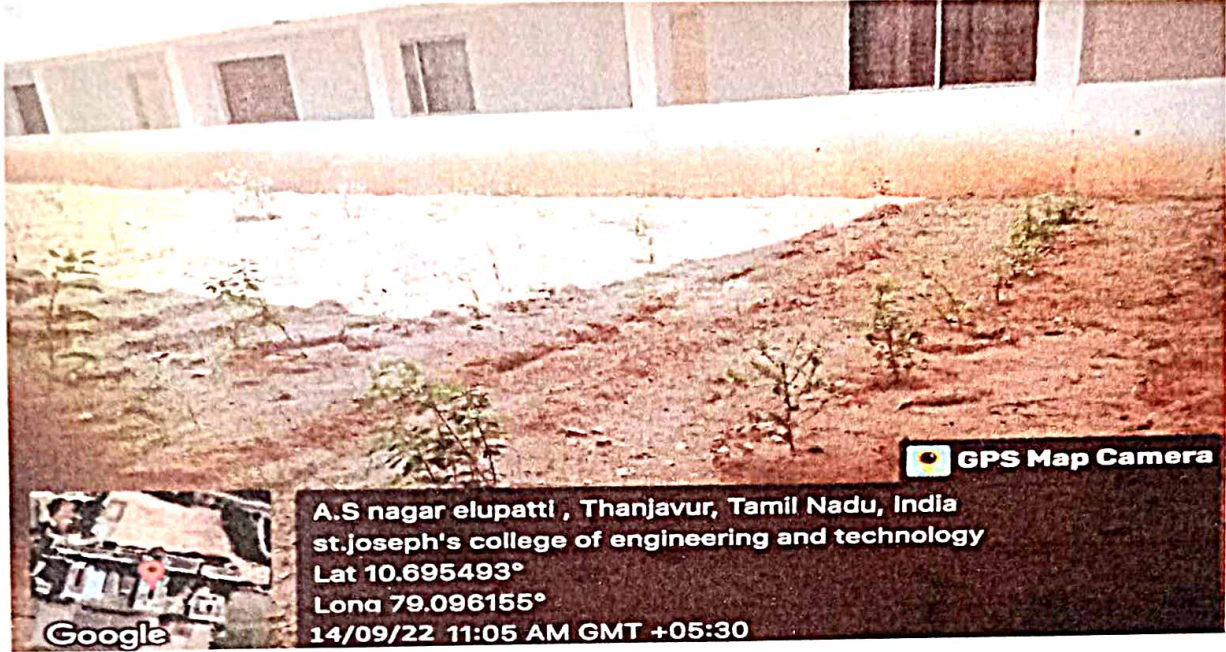
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## HERBAL FARM

### TREES:

Trees serve several purposes that are essential for both the environment and human society:

#### 1. Environmental benefits:

- o **Oxygen production:** Trees produce oxygen through photosynthesis, which is essential for the survival of all aerobic organisms, including humans.
- o **Carbon sequestration:** They absorb carbon dioxide, a greenhouse gas that helps to mitigate climate change by storing carbon in their biomass.
- o **Improve air quality:** Trees filter air pollutants and can reduce the effects of urban air pollution
- o **Water regulation:** They influence the water cycle, regulate water flow and reduce the risk of flooding and erosion.

#### 2. Ecological benefits:

- o **Habitat and biodiversity:** Trees provide a habitat for many species of insects to birds and mammals.
- o **Food and Shelter:** These provide food sources (fruits, nuts) and shelter for wildlife.



  
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### 3. Social and economic benefits:

- o **Aesthetic value:** trees improve the beauty of landscapes and urban areas, contributing to our well-being and quality of life.
- o **Health benefits:** Access to green spaces for people with disabilities has been linked to improved mental and physical health.
- o **Economic value:** Trees support the economy in industries such as forestry, agriculture such as forestry, agriculture.

### 4. Cultural and recreational benefits:

- o Trees are often deeply rooted in cultural and religious practices around the world.
- o They offer recreational activities such as hiking, bird watching and camping.

In conclusion, trees are essential to maintain the balance of ecosystems and provide many environmental, social, economic and cultural benefits. Protecting and planting trees is essential for sustainable development and the well-being of both current and future generations.



  
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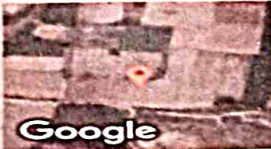
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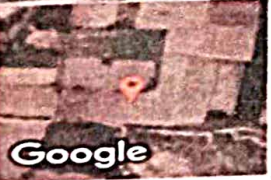
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TREES

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## TREES

### OXYGEN:

- Trees have many oxygen and environmental health benefits:
- 1. Oxygen production:** During photosynthesis, trees absorb carbon dioxide and release oxygen. One mature tree can produce enough oxygen to support two people in a year.
  - 2. Air Quality:** Trees play a vital role in improving air quality by filtering pollutants and particles from the air, thereby reducing respiratory problems and improving overall health.
  - 3. Climate regulation:** Trees help regulate the climate by absorbing carbon dioxide, the main greenhouse gas, and storing carbon in their biomass and soil. This will help mitigate the effects of climate change.
  - 4. Cooling effect:** Trees provide shade and lower temperatures in urban areas, a process called evaporation, which can reduce the energy needed for air conditioning.



  
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- 5. Ecosystem support:** Trees are critical to biodiversity because they provide habitats for a variety of plants, animals and microorganisms. Healthy ecosystems are essential for human well being and survival.
- 6. Water cycle:** Trees influence the water cycle by helping to retain soil moisture through their roots and by regulating local and global rainfall patterns.
- 7. Health benefits:** Access to green spaces for people with disabilities has been linked to better mental and physical health, including reduced stress and improved general well-being. In short, trees are essential for maintaining a healthy environment and play an important role in the gas balance of the atmosphere, including the production of oxygen essential for human and animal life.

## BICYCLE:

- 1. Cost:** Bicycles are generally cheaper to buy, maintain and operate than cars, making them more affordable for students.
- 2. Environmental impact:** Bicycles are environmentally friendly, emit no emissions and reduce your carbon footprint.
- 3. Traffic and Navigation:** Bicycles can more easily navigate traffic, which can reduce driving time, especially in urban areas where parking can be scarce.
- 4. Exercise:** Cycling to our college provides regular exercise which promotes physical health and well-being.
- 5. Parking:** Bicycles are easier to park and can often be parked closer to campuses than cars.



  
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