



KJ's Educational Institute
KJ College of Engineering & Management Research
(Accredited by NAAC)

Sr. No. 25 & 27, Kondhwa - Saswad Road, Near Bopdev Ghat, Pune 411048.

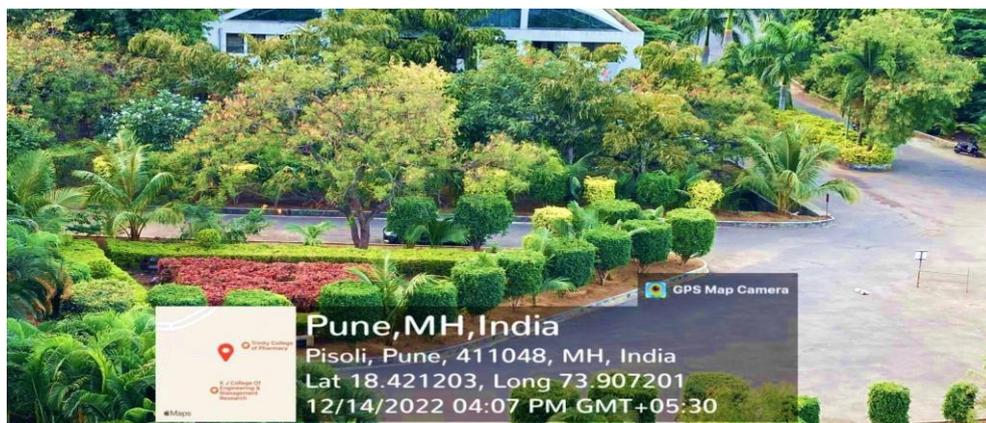
Institutional Distinctiveness

EVERGREEN AND POLLUTION FREE HUGE CAMPUS WITH DISTINCT AMENITIES AND ADVANCED LABORATORIES

The holistic development of students hinges greatly on the infrastructure of educational institutions. In addition to academics, extracurricular activities such as indoor/outdoor sports, cultural events, and technical activities are crucial in today's competitive world. Advanced laboratory facilities bolster students' technical skills. A robust infrastructure is necessary to support these activities. Furthermore, a green, pollution-free campus can foster positivity among students and alleviate stress, making it an ideal environment for technical education. A sprawling campus provides students with ample space to explore and enjoy.

A. EVERGREEN & POLLUTION FREE CAMPUS

K J College of Engineering and Management Research is in the southern part of Pune City which is developing speedily. Pune city is 2nd largest city in Maharashtra state as well as it is called Oxford of the East famous for number of two wheelers, Automobile Industries, IT Industry, small scale industries, educational institutes, etc. Some of them play a major role in creating air and noise pollution. This creates health and mental issues in the youngster. KJCOEMR institute is surrounded by hills, a variety of trees are available here in large numbers and restricted entry for vehicles makes this college campus free from air and noise pollution which improves the health and concentration of students and faculty members. It also creates awareness amongst the students to live with nature and treat the environment as their friend. Permanent green trees/plants and flowers have been laid down all over the campus. Institute takes all efforts and follows green practices to maintain a beautiful, lush & green campus. The beautiful and serene atmosphere attracts various movie directors to consider our campus as a shooting location for their movies. "Institute of Pavtology" and "Khapa-Khap" are Marathi movies shot in our campus. Evergreen KJCOEMR campus and surroundings are also home to many birds and animals. Because of this greenery Peacocks, Deer, Rabbits and different birds are often seen in the campus.



Green Campus



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❖ **Some key features of the lush green and pollution free KJCOEMR campus:**

● **Productive learning environment:**

Everyone requires a calm and peaceful space to study and concentrate. KJCOEMR campus provides a place that students need. Apart from boosting productivity as well as concentration, plants and trees in the campus reduce stress and improve air quality which helps students to study in a better way.

● **Better indoor air quality:**

Nowadays, we are observing that many diseases occur at a very early age in students. Poor indoor air quality or polluted air may increase asthma rates, cancer at a young age, eye irritation, throat infection and learning disabilities. This type of disadvantage is minimized in KJCOEMR's green and pollution free campus.

● **Better Acoustic:**

Effective learning involves effective listening. The reduced noise level in the KJCOEMR campus maximizes the learning experience of students. It helps to improve the overall performance of students and staff.

● **Healthy life:**

Students developed good memories when surrounded by green trees. Trees provide clean air and boost the immune system. Trees and plants also accelerate recovery from illness and improve the energy level of students and staff of KJCOEMR.

● **Ecosystem:**

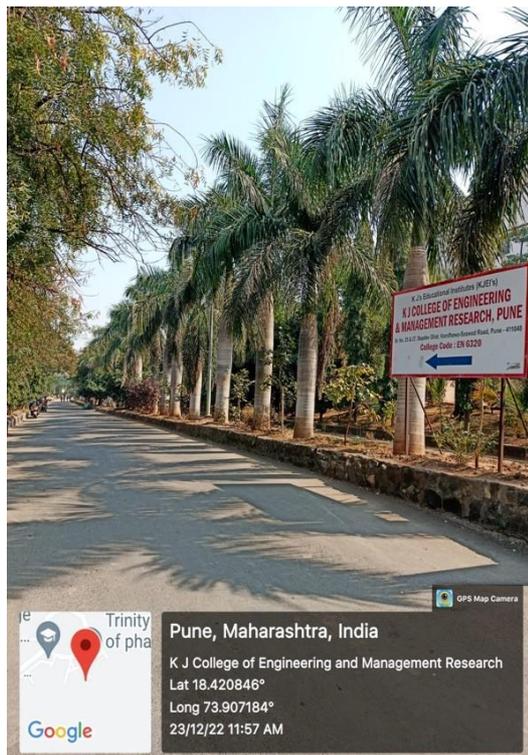
Variety of trees and plants contribute to a rich, healthy ecosystem. Animals, insects and birds make their home in trees and make a diverse ecosystem. This balanced environment, in turn, contributes to the betterment of human beings. Trees are a rich source of medicine that is used to heal our diseases in a natural way as done by Ayurveda. Many plants and trees which are beneficial from a medicinal point of view are planted in the campus.

● **Oxygen and Global Warming:**

Trees take carbon dioxide from the air and breathe out fresh oxygen for our life support. This also helps to sustain other living beings. Carbon dioxide breathed in by the trees is one of the greenhouse gasses. This and other greenhouse gasses when released into the atmosphere form a layer and trap the heat from the sun. This result is an increase in atmospheric temperature. This caused global warming. By considering all this, the institute planted more than 17000 trees till now in campus itself, which contributes to reducing global warming effects.

❖ **Landscaping**

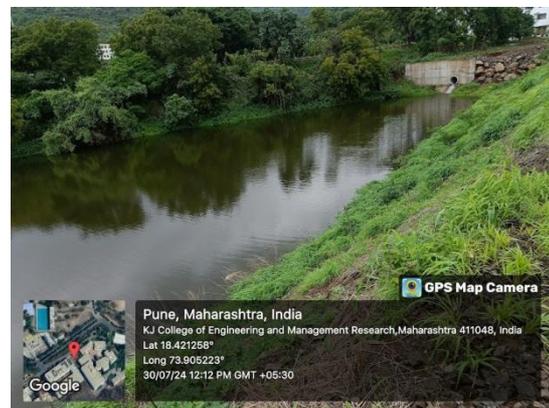
Landscaping allows different species of plants to grow and nurture. It reduces Air Pollutants. Plants improve the air quality in campus by capturing dust, smoke particles & other pollutants, and it releases oxygen. The campus has well designed and maintained landscaping. Students are enjoying and experiencing the campus scenery.



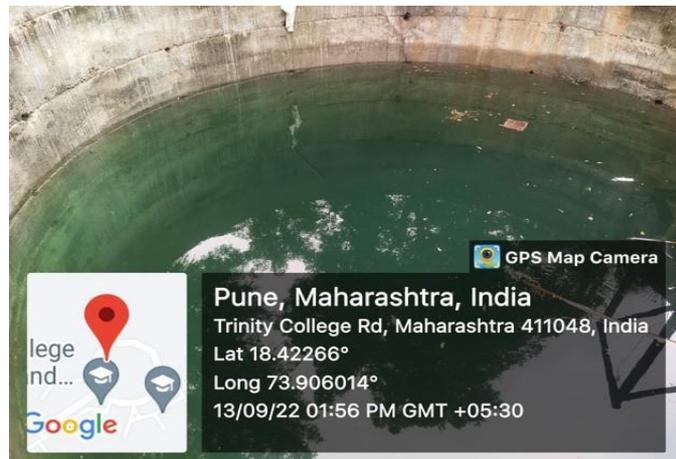
❖ **Rain/Storm Water Management**

Due to unbalanced rain, there are several problems related to water availability. Maintaining a lush green campus is a challenging task as it requires large amounts of water. To address this issue, the institute developed its own reliable water resources by using effective rain/storm water management.

The campus of K J College of Engineering and Management Research is surrounded by hills. Institute has taken the advantage of this and created an infrastructure in the campus to collect and store the rain water falls on hills and in the campus. Institute created two water bodies in the form of a lake having a combined water storage capacity of approximately 1.5 crore liters, one open well and an elevated water tank. Down take lines are fixed to the institute building to transfer the rainwater collected on the terrace. All the rain and storm water transfer to those water bodies through various channels by using natural ground slopes. The water stored in the water bodies transfer to open well and from that open well as per the requirement it transfers to an elevated water tank having a water storage capacity of 10 lakhs liters. From that tank, water transfers to campus for maintenance and domestic needs. This system allows for storing the rain water as well as recharging the groundwater.



Water bodies in the form of lake



Open well



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❖ **Variety of Trees Planted to Maintain Green Campus**

Campus tree planting offers many advantages, including a cleaner, more serene atmosphere, reduced stress levels, and aesthetically pleasing appearance.

Therefore, more than 17,000 trees were planted on campus to keep it clean and green.

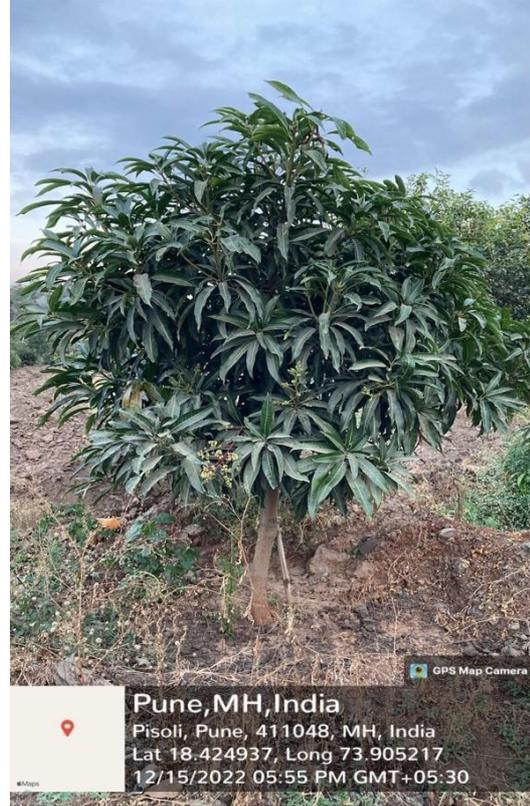
Following are the major trees planted in the campus

No.	Common Name of Tree	Qty.
1	Teak	2500
2	Rakta Chandan	1000
3	Amla	1000
4	Mango	500
5	Coconut	500
6	Tamarind	1500
7	Ashok	1000
8	Bel	50
9	Bottle Palm	840
10	Supari	180
11	Chikoo	5
12	Gulmohor	70
13	Kanchan	50
14	Mosambi	50
15	Jamun	100
16	Guava	50
17	Phycus	700
18	Arica Palm	500
19	Silver Oak	1000
20	Kaduneem	1000
21	Bamboo	1500
22	Shisum	500
23	Champa	50
24	Rose	50
25	Golden Duranta	2000
26	Jasmine	100
27	Vad	100
28	Peepal	100
29	Bakul	70
30	Australian Babul	70

Major Fruit Trees in the Campus



Jamun Tree (Java Plum)



Aam Tree (Mango)



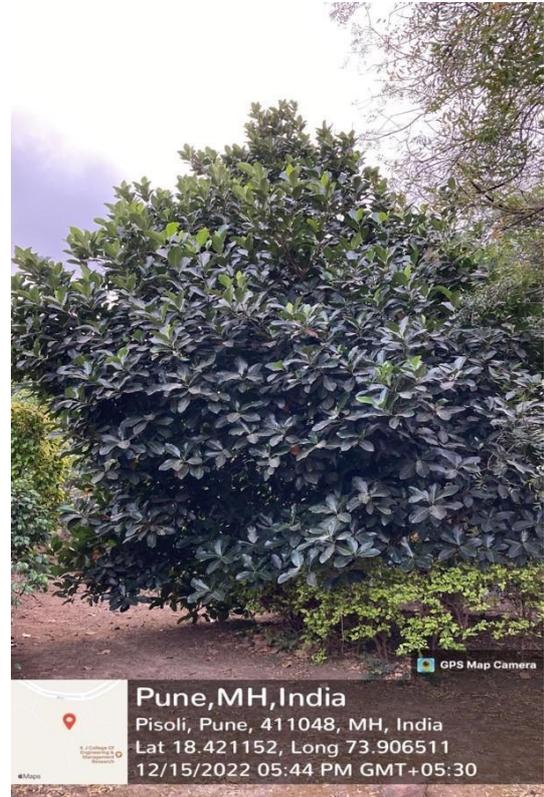
Papita Tree (Papaya)



Amrud Tree (Guava)



Nariyal Tree (Coconut)



Kathal Tree (Jackfruit)

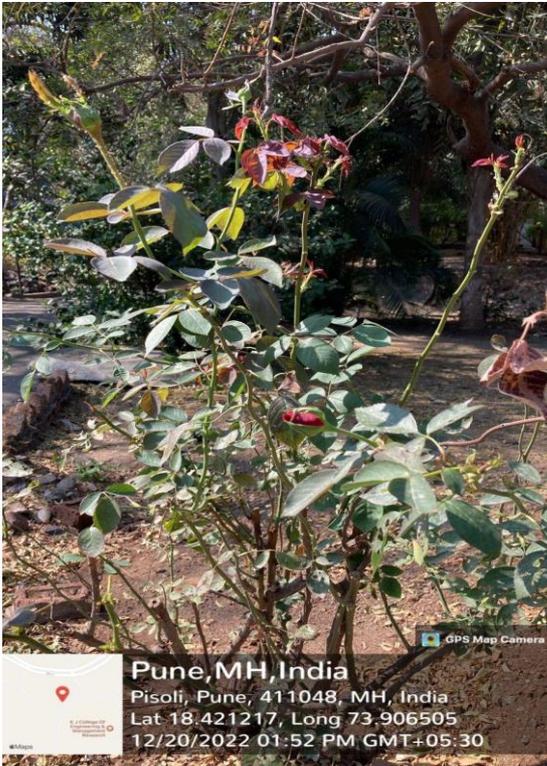


Chikoo Tree (Sapodilla)



Emli Tree (Tamarind)

Major Flower Plants in the Campus



Gulab Tree (Rose)



Gudhal (Hibiscus)

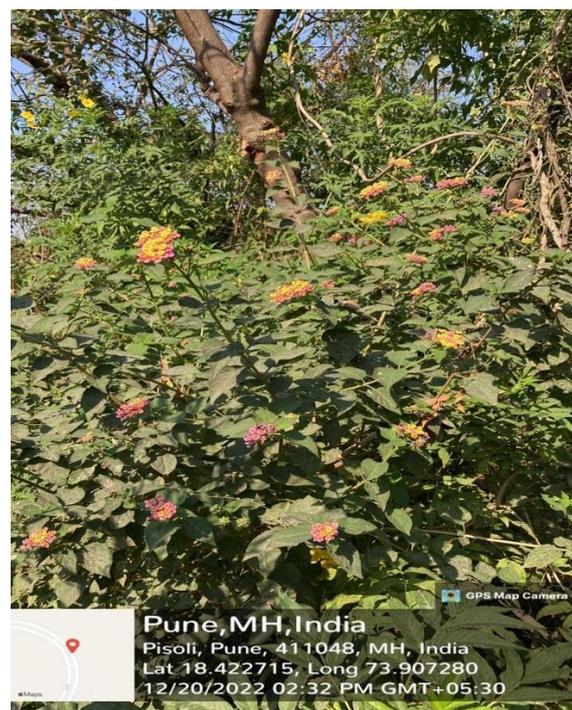
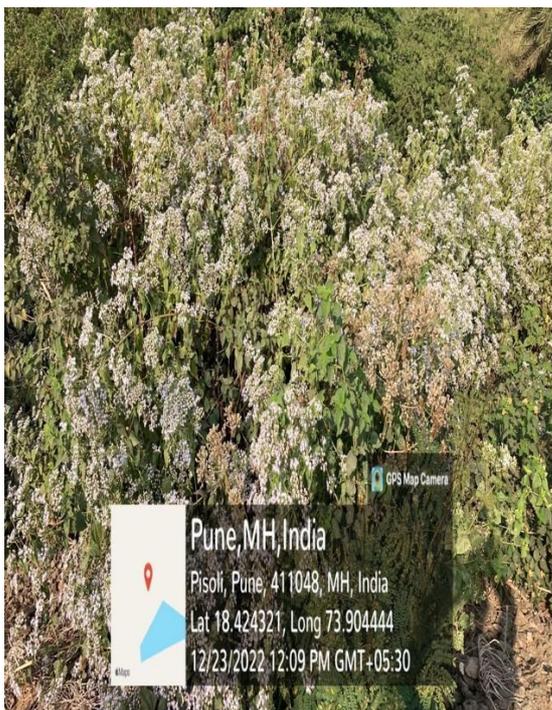
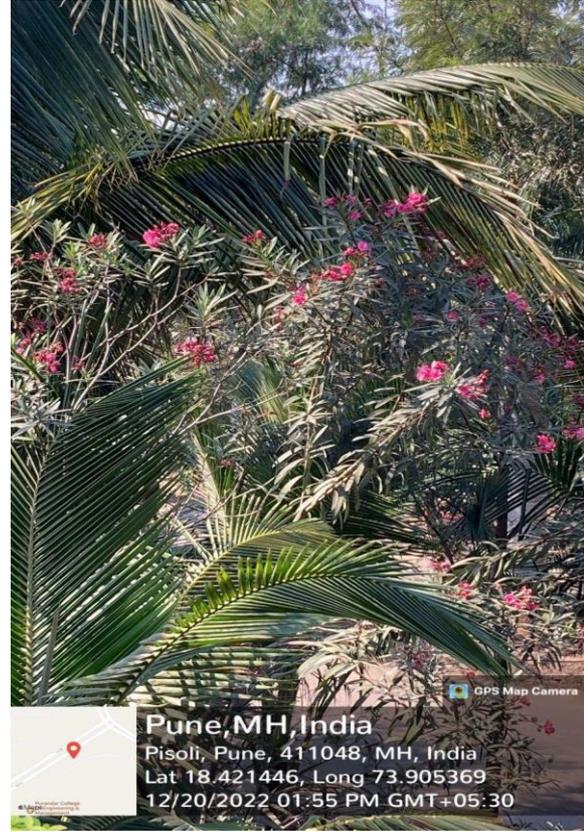


Chafa Tree (Champa)



Flowering Cactus

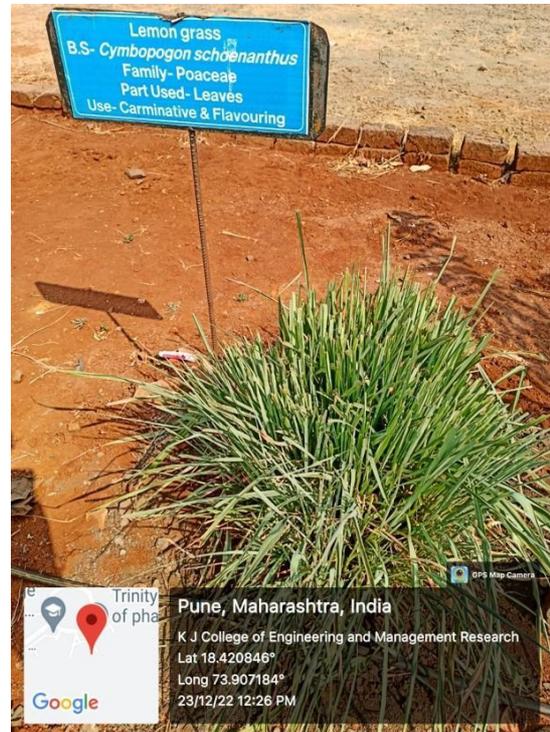
Major other Flower Plants in the Campus



Major Medicinal Plants in the Campus



Neem Tree



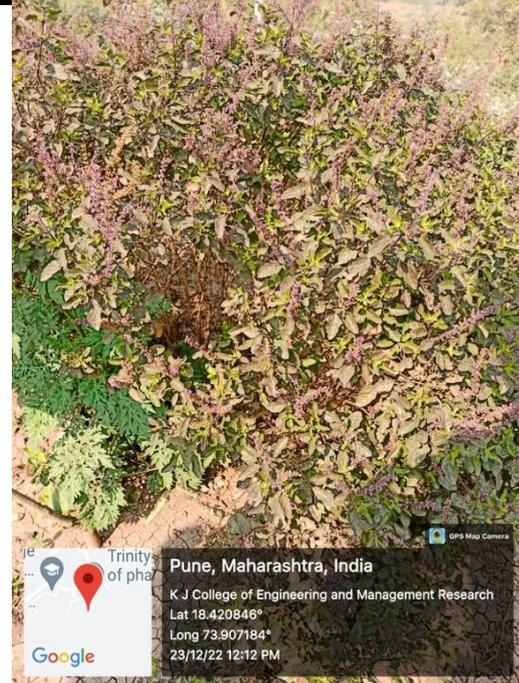
Lemon Grass



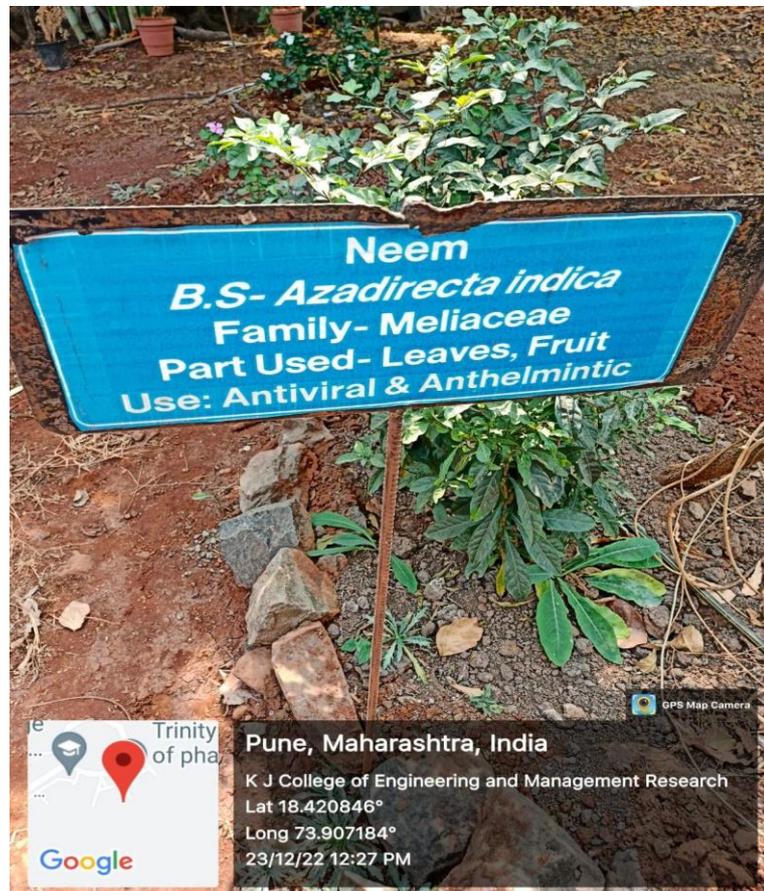
Aswagandha Tree



Aloe-vera



Tulsi

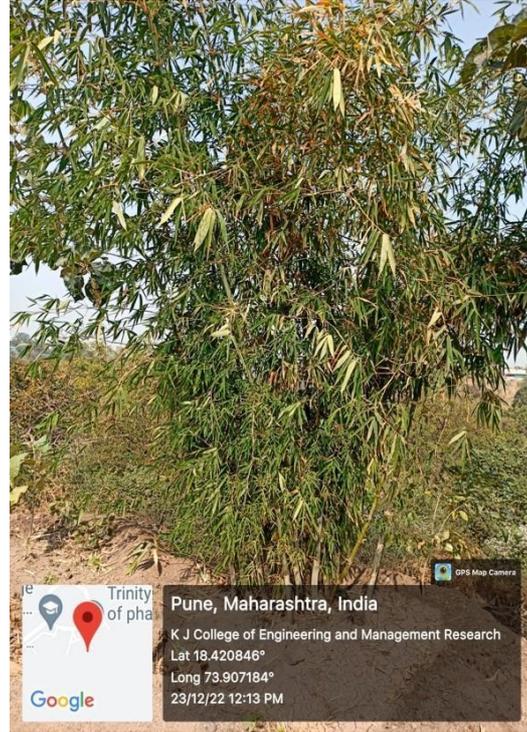


Lemon Tree

Some other Plants in the Campus



Teakwood



Bamboo



Ashoka Tree



Pimple Tree (Ficus Religiosa)



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B. HUGE CAMPUS WITH DISTINCT AMENITIES

The college years are an amazing time in life. What everyone wants to treasure is their four years in college. Students want a campus that offers plenty of space and a variety of amenities so they can hang out after school. With 110 acres of land, KJCOEMR has one of the biggest campuses in Pune. It is situated in Pune's southern region and offers amenities including four dining areas in multiple canteens, a unisex gymkhana, a cricket ground, a football pitch, and other indoor and outdoor sports areas.

Studies the world over have confirmed that sports and physical training are key parts of holistic development for students to build discipline, learn teamwork and improve reflexes. It offers an additional career avenue for gifted students to sharpen their natural talents regardless of their backgrounds. In India, the commercialization of sports is developing speedily which gives name and fame to the sports person and uplifts financial status. Also, it helps to get jobs in government sectors through sports quota. By taking this into account the institute focuses on the development of more sports facilities for the students. Hence, fully functional sports facilities like swimming pool and horseback riding will be added soon to the existing list.

❖ **Space for Horseback Riding**

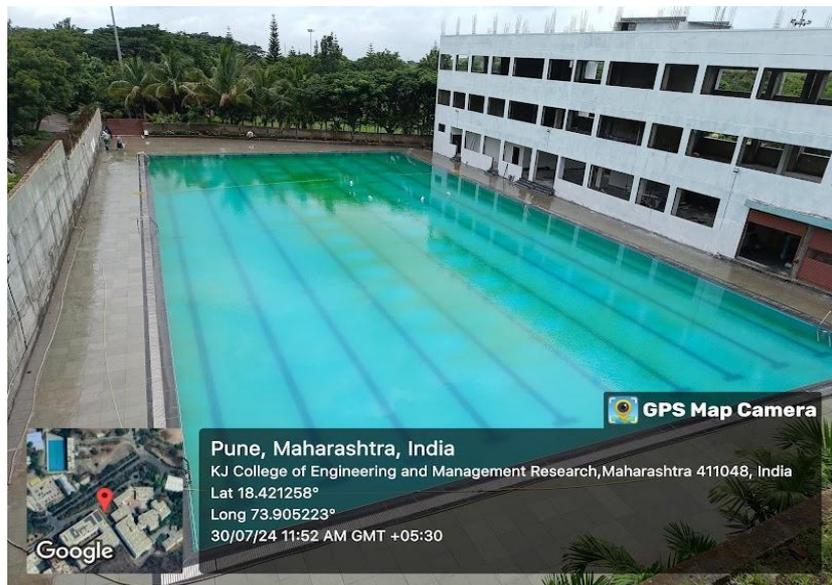
Space for horse riding is available in the KJCOEMR campus and it is in the developing phase. Horseback riding will improve the physical, mental and emotional state of students. Other benefits such as improvement in cardiovascular health, increase in core strength, blood pressure control and mind relaxation will motivate the students to take part in a horseback riding competition. This improves the performance index parameters of students.



Space for Horseback Riding

❖ Olympic-size Swimming Pool

The Olympic size swimming pool at the KJCOEMR campus is in the developing phase. The swimming pool is a unique value added amenity which will improve the mental and physical health of the students. It also teaches how to stay safe in and around water. Swimming is an important competition in the Olympic Games. This facility can contribute to the students' wish to participate in Olympic Games.



Olympic-size Swimming Pool

❖ Other Sports Facilities

Sports play a pivotal role in shaping one's personality and maintaining good health. Institute specially developed a sports facility which comprises a cricket ground, turf football ground, basketball court and indoor games like carrom, chess, table tennis and Gym. This area is not used for specific activities but many other activities like Volleyball, Badminton, Kho-Kho, Kabaddi and health related physical activities like yoga, jogging, running, walking, etc.



Cricket Ground



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Turf Football Ground



Tennis Court



Basketball Court



Indoor Sports (Table Tennis & Carom)



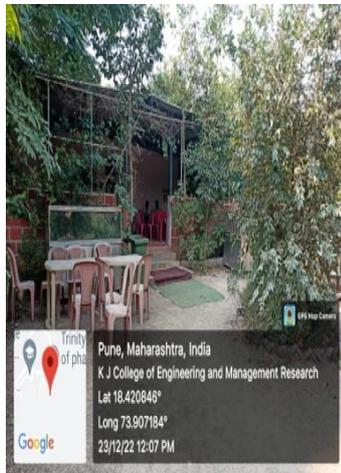
Indoor Sports Room



Gymnasium

❖ **Multiple canteen facilities and cafeterias in the campus:**

The Canteen is an important facility for the students through which they can obtain a better quality of food and refreshments. Multiple canteen facilities and cafeteria on campus is a major retention strategy for the students to stay on campus and utilize the support services available. Variety and a multiple number of canteen facilities lead to competition and hence students can obtain tasty and delicious food from anywhere in the campus at affordable price.



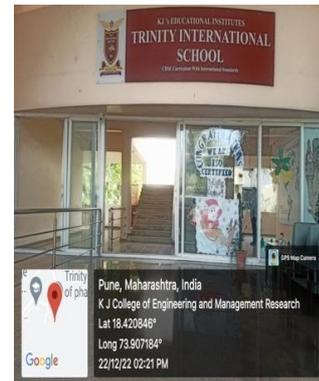


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❖ One campus many institutes

A total of nine institutes in one campus are running different courses like Engineering, Architecture, Pharmacy, Diploma, MBA, MCA, Junior College and School which increases students' strength. This leads to making more friends and forming hobby clubs which enhances skills like creative writing, painting, singing, dancing etc. They can work together as a team as per their area of interest and hobbies. This develops a good culture in the campus. It also makes intercollegiate competitions and annual social gatherings more interesting.



Various Institutes in the Campus



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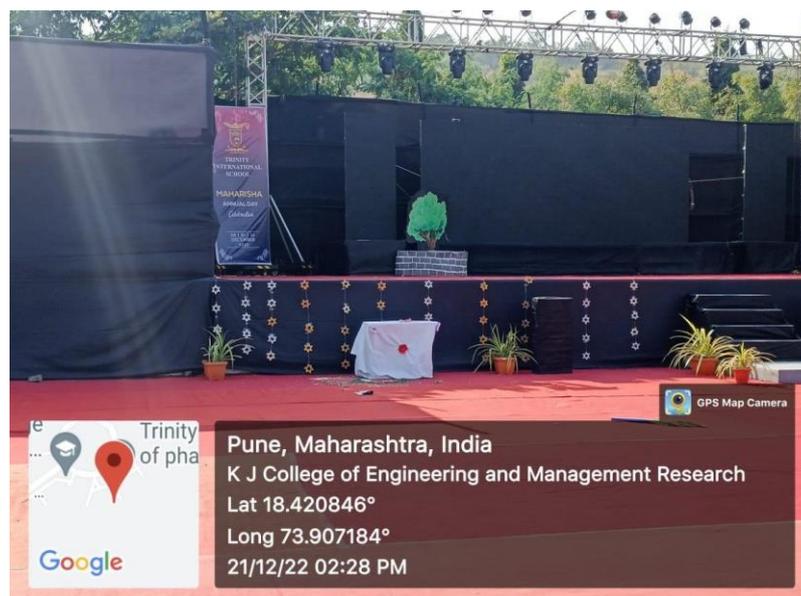
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❖ Gathering Place

An auditorium and multipurpose space are important gathering places for students and staff for everything from routine announcements to special performances. Institute can easily arrange annual social gathering functions at these places.



Auditorium



Multipurpose Space

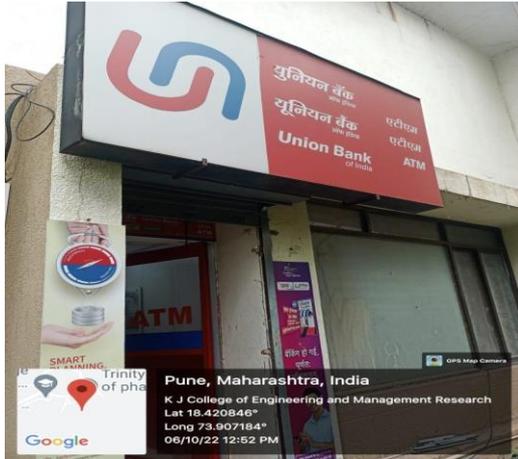


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❖ Other Ancillary Facilities

The institute has all ancillary facilities available on campus. These facilities make the student's stay on campus comfortable and joyful.



ATM



Transport Facility



Vehicle Parking



Stationary and Photocopy Centre



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Telecom Tower



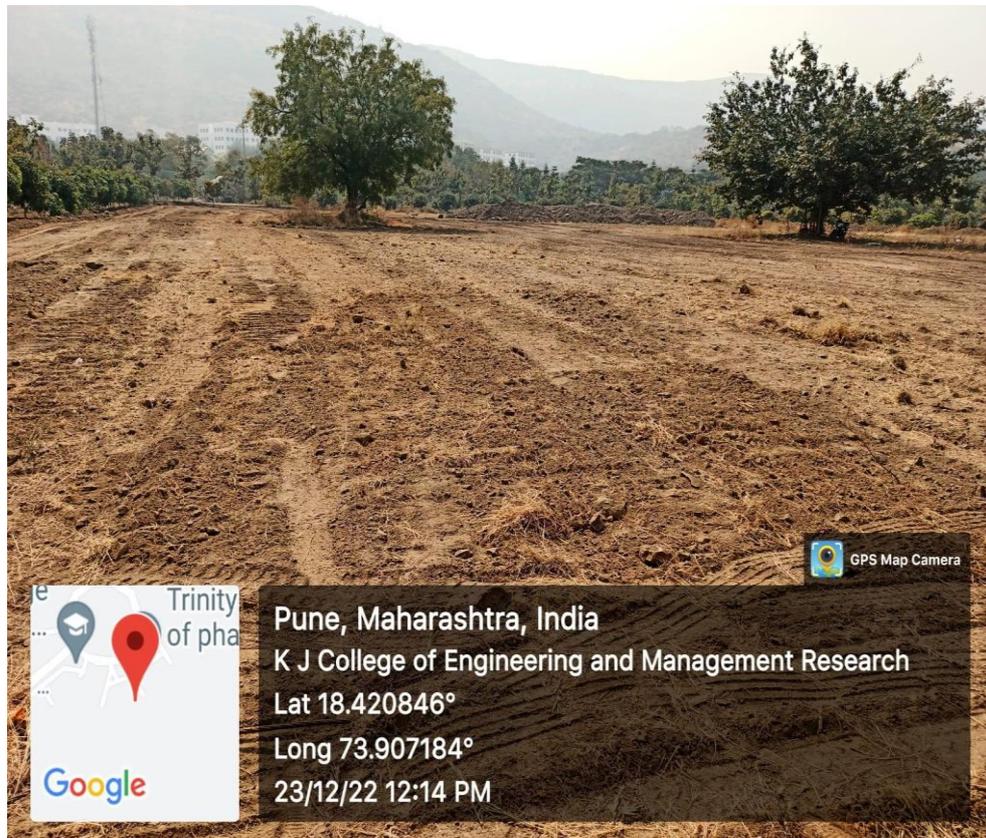
Generator Room



RO Plant

❖ **Space for future development**

There is a lot of space available in the campus for creating different new resources.



Open Space



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C. ADVANCED LABORATORIES

Good on-campus laboratories are always a top characteristic of the best engineering colleges. Engineering is a branch of study that involves lots of experimenting. In fact, engineers have the most practical and experimental jobs in the world. Advanced labs provide various opportunities to learn and experiment to the students, and also play a crucial role in the ongoing intellectual development of students at an academic level.

❖ **Electric Vehicle Lab**

To immerse students in cutting-edge Electric Vehicle (EV) technology, an Electric Vehicle Lab has been established in our campus. This lab is dedicated to carry research and to develop new products in the field of electric vehicles. Presently, the laboratory is engaged in several ongoing projects, including a solar charging station, active cell balancing, battery thermal control modeling, range prediction and estimation for EVs, and unmanned driverless robots. The lab has successfully registered as a startup and was awarded the title of “**Most Emerging Startup Institute**” for 2023 by adrom.com. Additionally, it has received a research grant of 5.32 lakhs from **Acex Enterprises Pvt Ltd** to enhance its infrastructure. As a result, we have developed an electric car, an electric golf cart, an electric bike with a dumping assembly, and a cargo bicycle, among other innovations. The lab is now poised to expand its scope by offering training and undertaking projects from external industries and institutions.



Electric Vehicles



Inauguration Ceremony

❖ **Centre of Excellence**

The AI lab is crucial for fostering innovation, providing practical experience, promoting interdisciplinary research, and developing skills essential for the future of technology and society. Consequently, we have established a Center of Excellence in Artificial Intelligence equipped with the latest technology. This lab is dedicated to providing students and faculty members with access to state-of-the-art hardware and software tools for AI experimentation and development. It supports projects and research in areas such as machine learning, neural networks and natural language processing, computer vision, and robotics. Currently, the lab is engaged in research projects in image processing, optimization and algorithms, cyber security, and the latest EV technology. It has received a research grant of 5.6 lakhs from Tiruba Pvt Ltd to implement various projects. To extend the lab's applications into training and certification courses, we have established Memoranda of Understanding (MoUs) with various industries. Presently, several faculty members and students are utilizing the facility for their project work. As a result, the lab has produced numerous publications in highly refereed journals and conferences, including those indexed by SCI, WoS, and Scopus.



Centre of Excellence in Artificial Intelligence

❖ Computerized Universal Testing Machine

Universal testing machine (UTM) has a wide range of applications. A number of materials and metals in different forms and shapes can be tested for a variety of tests like Tension, Compression, Transverse, Bend-Rebend, 180 degree bend, Shear, Brinell, Pull-out, etc. Special attachments are also available in this UTM for testing of Flat belts, Chain links, Wire Ropes, Nut-Bolts. The capacity of this UTM machine is 1200 KN which is higher than the requirement for educational purposes. The best feature of this UTM machine is, it directly plots computerized stress vs. strain curve and load vs. deformation curve which is very much beneficial for research and consultancy work. This advanced computer aided UTM is capable of testing steel bars above 32 mm in diameter.



Computerized Universal Testing Machine

❖ Steam Power Plant

A steam power plant is installed in the institute having a steam generation capacity of 600 kg/hr. It clarifies all the details to the students about the generation of electricity from steam. Due to this significance, the institute provides consultancy to students from other colleges. They visit this steam power plant to see the actual demonstration. This is frequently used for demonstration as well as experimentation purposes for first year engineering students so that they can learn basic concepts or processes of steam and electricity generation. It also helps to understand different basic components which are an integral part of a steam power plant like boiler, turbine, condenser, feed water pump, etc.



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Steam Power Plant