

S.A. ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University)

STRIVING FOR SUSTAINABLE DEVELOPMENT GOALS

The S.A.Engineering college has taken an initiative towards the sustainable developemnet goal objectives for ensuring our future generation in this world to enjoy health, justice and prosperity and to overcome poverty.



The Sustainable Development Goals (SDGs) are a set of 17 global objectives established by the United Nations in 2015 to address some of the world's most pressing challenges. The goals are designed to be universal, applying to all countries and all people. The end date for the SDGs is 2030.

NO POVERTY



Strong Education swipes away the inequality and poverty from the society and improves the people for their economic growth. In this regard our college encourages the education of financially weak students By providing the Scholarship through our management

“the Dharma Naidu Educational Trust” . when joining in our institution, students secured above 190 cut off in their +2 examinations will get full Tuition fee waiver and they can get their education with the full fees as scholarship from the trust, 185 cut off will get 50% scholarship and above 185 will get 30% scholarship from our management trust.

GOOD HEALTH AND WELL BEING



For ensuring mental health Yoga day have been conducted. Faculties and students are insisted to practice yoga during college hours also.

Many cultural events and festivals are being celebrated in grand manner for relieving the mental stress and to enjoy the happy moments.

Various sports activity and Gym facility have been provided for maintaining physical health of employees as well as students.

QUALITY EDUCATION



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Quality education is the very most important criteria in our college, S.A. ENGINEERING COLLEGE, an Autonomous institution, affiliated to Anna University, the college was awarded ISO 9001:20015 certificate for academic standard by TUV. The college is accredited by NBA and NAAC with 'A' grade. The college has strong governance of quality education system by various academic bodies like, Governing council, Management review, Internal quality assurance cell, Board of studies, Department Advisory Committee, Program Advisory Committee, various ISO process committee. The internal compliance and Institute Innovation Committee also has taken care of various promotional activities.

GENDER EQUITY



Our S. A. Engineering college regularly provides equal opportunities and hassle free environment for women faculties and Girl students. Women faculties have been given responsible positions in our college. Nearly 6 Women faculties are playing effectively their role as Head of the department. Girl students are given proper counselling by women Mentor to

ensure that they are able to tackle the everyday problems in their lives. It aims at making the students capable of participating in the entire development process in a creative and constructive way. The ICC is established for prevention of sexual harassment of women at campus as per “THE SEXUAL HARASSMENT OF WOMEN (PREVENTION, PROHIBITION AND REDRESSAL) AT WORKPLACE ACT, 2013” and vide VTU/BGWICC/2017-18/g for constitution of college Internal Complaint Committee (CICC).As per the instructions of AICTE, UGC, Anna University and the Supreme Court Internal complaints Committee (ICC) has been established in our college under the guidelines of VISHAKA committee on 22/06/2018.

On 8th March 2024, The Women Empowerment Cell of S.A. Engineering College, Chennai 77, celebrated International women’s day ,“Shakthi” in our college campus. Ms. SukanyaSriram Co-founder Madras Blue Diamonds, she addressed the gathering with her phenomenal speech and motivated women faculties and girl students for their self-growth.

In our college National Service Scheme (NSS) conducted various activities, PCOS awareness programs, school cleaning, International Yoga day celebration to develop the personality and character of the students through voluntary community service where in all the students both boys and girls from all the departments of our college actively participated in the events.

Our college provides, well maintained pollution free Ladies Hostel with well-equipped Gym facility, CCTV camera for ensuring protection and safety of women faculties and Girls.

CLEAN WATER AND SANITATION



- 1.Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling, sewage treatment plant
5. Maintenance of water bodies and distribution system in the camp

AFFORDABLE AND CLEAN ENERGY



Energy Conservation

Energy conservation is an important factor in mitigating climate change. The Alternative Energy sources of S.A. Engineering College are made for implementation and efficient utilization of renewable energy for non-renewable resources.

Energy conservation is frequently the most cost-effective solution to energy shortages, as well as a more environmentally friendly alternative to increased energy production. An alternative Energy source offers the opportunities for student's community to engage in initiatives for contributing to environmental protection.

Solar Energy System

Solar energy conversion describes technologies devoted to the transformation of solar energy to other (useful) forms of energy, including electricity, fuel, and heat. It covers light-harvesting technologies including traditional semiconductor photovoltaic devices (PVs), emerging photovoltaic system.

Solar Panel Specifications: –

Solar PV System capacity CSE & EEE Block- 108.2 KW

CSE BLOCK: 20KW Solar System

Technology: Polycrystalline Photo Voltaic Module

Generation Capacity: 20 KW, 80 Modules with 250 Wattage Each.

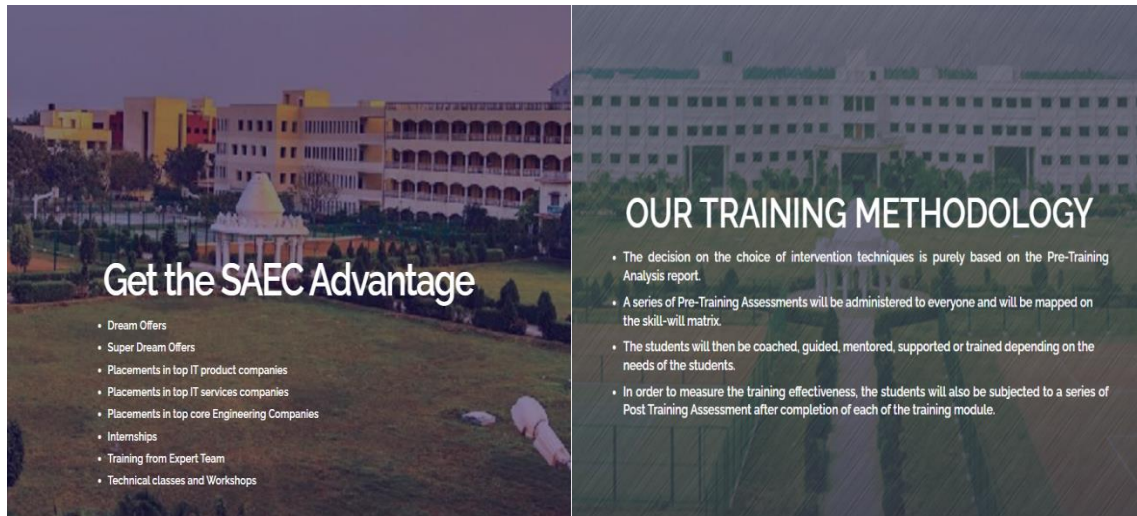
EEE BLOCK: 88.2 KW Solar System

Technology: Polycrystalline Photo Voltaic Module

Generation Capacity: 88.2 KW, 294 Modules with 300 Wattage Each.

DECENT WORK AND ECONOMIC GROWTH:





S.A. Engineering College has 25 years of excellence and have produced more than 50000 engineering graduates who have been playing their role in multi-disciplinary domain for the national development and ensuring the economic growth.

INDUSTRY, INNOVATION AND INFRA STRUCTURE



Industry Inplant Training

Our students are nurtured and developed into industry ready professionals through exposure to real time industry working and practices, by way of in-plant training in leading industries. Some of the industries where our students underwent in-plant training are:

- Bharat Sanchar Nigam Ltd., (BSNL), Chennai.
- Bharat Heavy Electricals Ltd., (BHEL), Ranipet.
- Addison & Co. Ltd., Chennai.
- IP Pins & Liners Ltd., (IPPL), Chennai Port Trust, Maraimalai Nagar.
- TVS Electronics Ltd., Chennai.
- Videsh Sanchar Nigam Ltd., (VSNL), Chennai.
- Bharat Electronics Ltd., Nandambakkam.
- Brakes India Ltd., Padi.
- Hindustan Teleprinters Ltd., (HTL), Heavy Vehicles (HVF), Guindy.
- Airports Authority of India, Chennai.
- W.S. Industries (India) Ltd., Porur.
- Best & Crompton Engg. Ltd., Madras Fertilizers Ltd., Ambattur.

- Southern Petrochemical Industries, Tuticorin.
- Integral Coach Factory (ICF), Chennai.
- Southern Railway, Chennai.
- Doordarshan Kendra / PrasarBharathi, Chennai.
- Tamil Nadu Electricity Board, Chennai.

Industrial Visits

Our students are provided with adequate exposure to the industrial practices through visit to reputed industries. Accompanied by Faculty members, students are given practical side of their curriculum learning. Some of the industries visited by our students are:

- Neyveli Lignite Corporation, Neyveli.
- Tamil Nadu Electricity Board, Chennai.
- Indian Rare Earths Limited, Bangalore.
- Fluid Control Research Institute, Palakkad.
- L & T, Ooty.
- Power Grid Corporation of India, Chennai.
- Essen Electricals, Bangalore.
- Eveready Industry, Chennai.
- Doordarshan Kendra, Chennai.
- Council of Scientific & Industrial Research, Chennai.
- Central Institute of Plastic Engg. Technology, Chennai.
- SRP Tools, Chennai.
- MTAB Industries, Chennai.
- Central Food Technological Research Institute, Mysore.
- Indian Institute of Sciences, Bangalore.
- R & D Centre – EID Parry, Mysore.
- Simputer, Bangalore.
- Maintec, Bangalore.

Innovation

Ministry of Human Resource Development (MHRD), Govt. of India has established ‘MHRD’s Innovation Cell (MIC)’ to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in their developmental stage. In the year 2018, MIC launched the Institution’s Innovation Council (IIC) program in collaboration with AICTE for Higher Educational Institutions (HEIs) to promote innovation. A network of these IICs was established to promote innovation in the Institution through innumerable modes leading to an innovation promotion eco-system in the campuses.



It's our proud privilege to proclaim that S.A. ENGINEERING COLLEGE, has joined hands with MoE to foster the culture of Entrepreneurship and innovation in the institute. SAEC IICs has been promoting innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campuses. At S.A. Engineering College, **INSTITUTION'S INNOVATION COUNCIL** organizes numerous activities for the academic quality assurance and also for promoting Institute-Industry interaction and to fulfill the needs of industry 5.0

INFRA STRUCTURE

- Experienced Faculty members.
- All classrooms are equipped with LCD Projectors.

- Air Conditioned laboratories
- Communication Skills Laboratory.
- Active Placement Cell.
- Research centres
- A standby power generator is provided in the campus to take care of the occasional power shut down due to maintenance.
- Well- stocked Central Library with computing facility with e-journals – IEEE, Journals and Magazines.

The Dharma Naidu Educational & Charitable Trust established the S.A. Engineering College in the year 1998 – '99 in accordance with the general policy of the Govt. of Tamil Nadu to give high priority to Technical Education. The campus is spread over a vast area of about 24 acres and has 3.8 lakh sq.ft. of constructed area which includes classrooms, drawing halls, laboratories, workshops and associated facilities. In recognition of the quality system of high caliber being implemented for the administration of the institution and achievement of its goals, m/s. TUV NORD have recorded ISO 9001: 2008 certification. The institution has NBA Accredited Departments and NAAC “A” Grade certification.

Internet & Intranet

We provide free internet access to our students. We have 1 Gbps 1:1 dedicated leased line internet connectivity. The internet can be accessed from more than 1500 computers. All the departments have internet connectivity.

PCs / Laptops

The college has more than 1400 Desktop PCs / Laptops in the campus in various academic blocks connected through fibre optic backbone. Internet access is provided to all the computers.

Software

College has purchased adequate numbers of licenses for the licensed software according to the curriculum. All the laboratories have been deployed with licensed software to cater to the needs of lab classes, research work training, certification program. We have started migrating from the proprietary software to Free and Open Source Software 10 years back and as a result, most of our computers are operated only on Open Source Technologies now. We are using **free and open source software** in replacement of commercial software wherever possible. We have installed proprietary software in some labs to explore the latest technologies to the students and faculty.

Data Center

The institution has Centre of Technical Support with Data Centre to manage network operations efficiently and hosts the Rack server with uninterrupted power supply.

Firewall

The Sophos firewall has been deployed for handling enhanced load on Network and Applications catering to academic and Administrative processes, thereby providing a secure campus.

ICT Facilities

Class rooms / Seminar halls are equipped with interactive panels, smartboards, Lecture capturing system and also LCD projectors to deliver presentations.

Face Recognition Attendance Machine

Facial recognition for staff attendance has been implemented across the campus. Barcode Scanners are available in the Library for issue/return of books and to capture the entry/exit movement of the students and faculty.

Centre for Technical Support

All the IT related activities including network, hardware, software, interactive panels, projectors, UPS and IT maintenance comes under Centre for Technical Support (CTS).

REDUCED INEQUALITIES



S.A. ENGINEERING COLLEGE (AUTONOMOUS)

Sponsored by Dharma Naidu Educational and Charitable Trust
Accredited by NBA, NAAC with 'A' Grade & ISO 9001 : 2015 Certified Institution
Approved by A.I.C.T.E. and Affiliated to Anna University
Poonamallee - Avadi Main Road, Thiruverkadu, Chennai - 600 077.
Phone : 2680 1999, 2680 1499, Fax : 2680 1899



Date : 04-12-2024

Constitution of Equal Opportunity Cell

The S.A. Engineering College has established an Equal Opportunity Cell with the following members, in accordance with the directions of the University Grants Commission's Scheme of Equal Opportunity Centre for Colleges under the XII Plan (2012-2017). The cell is tasked with overseeing the effective implementation of policies and programs for disadvantaged groups, providing guidance and counselling on academic, financial, social, and other matters, and promoting diversity within the campus.

| Name of the Member | Designation | Signature |
|--|-----------------------|---------------|
| 1. Dr. S.Ramachandran Principal/S.A.Engineering College, Chennai-600077 | Chairperson | |
| 2. Dr.M.Geetha Professor / Information Technology S.A.Engineering College, Chennai-600077 | Member-1 (Advisor) | 4/12/24 |
| 3. Dr.L.Vanitha Professor / Electronics and Communication Engineering S.A.Engineering College Chennai-600077 | Member-2 | 4/12/2024 |
| 4. Dr.M.Arul Murugan Associate Professor / Mechanical Engineering, S.A.Engineering College, Chennai-600077 | Member-3 | 4/12/24 |

The Equal Opportunity Cell functions with a commitment to inclusivity and social equity through the following objectives:

Equity and inclusion, Diversity, Supportive Environment, social sensitization of the Academic community, Empowering disadvantaged group, Redressal grievances, Information Dissemination, Streamlining the admission process, Mobilizing Resources, Monitoring and Evaluation, Equitable participation, Sensitization and awareness.



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Phone : 2680 1999, 2680 1499, Fax : 2680 1899



Date : 13.07.2023

Dr. S. RAMACHANDRAN, M.E., Ph.D.,
PRINCIPAL
Lr. No. SAEC/AR/2023-2024/Admin

SC/ST STUDENTS WELFARE COMMITTEE

Subject: Formation of the SC/ST Students and Welfare Committee _ Reg.

As per the requirements of AICTE and Anna University regarding the formation of the SC/ST Students Welfare Committee at our institute, the following members have been appointed to the above-mentioned committee:

| Sl. No. | Name of the Staff Member | Position | Designation and Department/ Category |
|---------|--------------------------|-------------|---|
| 1. | Dr. S. Kamalakkannan | Chairperson | EEE/Professor |
| 2. | Ms. D. Meenakshi | Member | AI&DS/Assistant Professor |
| 3. | Mr. G. Vinothkanna | Member | Civil/Assistant Professor |
| 4. | Ms. S. Gunanandhini | Member | CSE/Assistant Professor |
| 5. | Dr. M. Gomathi | Member | ECE/Assistant Professor |
| 6. | Ms. J. Megala | Member | EEE/Assistant Professor |
| 7. | Ms. D. Chithra | Member | IT/Assistant Professor |
| 8. | Mr. K.N. Ramu | Member | MECH/Assistant Professor |
| 9. | Mr. N. Vinodh | Member | MBA/Assistant Professor |
| 10. | Ms. R. Rajeshwari | Member | MCA/Assistant Professor |
| 11. | Mr. S. Prabhakar | Member | S&H/Assistant Professor |

- To implement effectively the institution rules with regard to the SC/ST Students Welfare Committee.
- To resolve all the affairs and problems related to the SC/ST Students Welfare Committee.
- To inform students about various scholarship Programmes offered by the state government and the UGC.

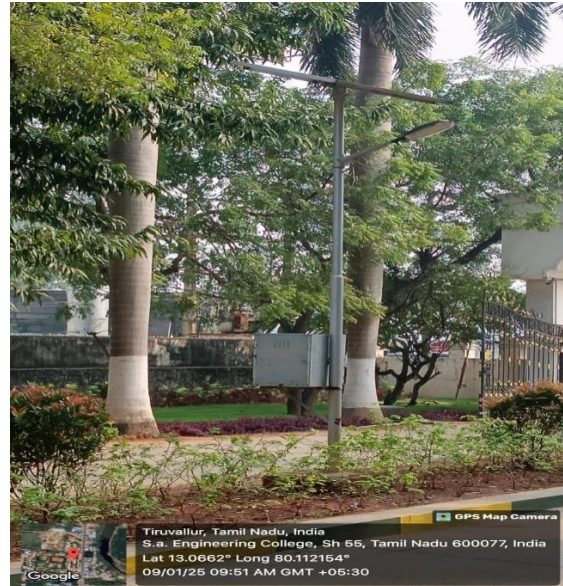
RESPONSIBLE PRODUCTION AND CONSUMPTION



SOLAR WATER HEATERS



SOLAR WATER HEATERS



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CLIMATE ACTION



The institutional initiatives for greening the campus for focusing the actions for saving the life on earth and belowwater by maintaining clean, plastic free, environment

Use of Bicycles

- In S.A. Engineering College few Non-teaching staff as well as some students uses bicycles to come to college.
- **Pedestrian Friendly Roads**

Pedestrian Friendly Roads are used by students, staff and others to move around the campus.

- **Plastic-free campus**

To create awareness among the students about use of plastic materials and to make college as a plastic free campus, International plastic free day (3rd March) is celebrated.

- **Energy conservation**

In our college, classrooms have number of large windows, so natural light is sufficient instead of using the electric lights.

Use of renewable energy

Solar power is utilized for 21 Streets lights. (Per day Average of 76 KWH Power saved)

Efforts for Carbon neutrality

The college has made arrangements for the parking at the entrance itself. This helps in keeping the campus as much as possible clean. The college has taken up preventive measures to check the emission of carbon-dioxide. Only emission tested vehicles are allowed inside the campus. The dead leaves and the waste papers are not allowed to be put on fire.

Solid Waste Management

At S.A. Engineering College the solid waste are collected and segregated as degradable and non-degradable waste and it is transported to the nearest municipal waste collection area through trucks.

Proposed management of solid waste: Solid wastes are collected daily and dumped in pits excavated for this purpose inside the campus area and allowed to decompose.

b. E-Waste Management

Old computers and its accessories are sold as scrap to M/s. VIROGREEN INDIA Pvt. Ltd., designated as authorized buyer by the Tamil Nadu Pollution Control Board. For this purpose, MoU has been initiated with the firm.

Liquid waste management

Waste water from college is cleaned and the recycled water is diverted to the garden to maintain plants inside the campus

Plantation

Tree plantation drives are organized regularly to create clean and green campus. NSS\YRC coordinator organizes tree plantation internally and externally for every semester.

LIFE ON LAND



Tiruvallur, Tamil Nadu, India

S A Engineering College Ece Block, Path to Main Block 2, Viraraghavapuram,

Tamil Nadu 600077, India

Lat 13.065262°

Long 80.110776°

27/01/22 11:54 AM



‘Being Green and Clean is not just an aspiration but an action’

Under Nature’s Haven

At S.A. Engineering College, We believe that a clean, green and a pollution free environment provides an unblemished backdrop for an effective learning experience. We have therefore left no stone unturned in the development of a green ecosystem to provide enrichment to the mind, heart and soul of the everyone in the campus.

All the avenues and roads within the College campus therefore are adorned with tall trees and beautiful flowers to create a homogenous feeling amongst everyone within the campus.

The Pivots of the environmental policy

- Solid Waste Management
- Waste Water Management
- Rainwater harvesting
- Optimum Use of Solar Energy

a. Solid Waste Management

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Liquid waste management

Waste water from college is cleaned and the recycled water is diverted to the garden to maintain plants inside the campus

Rain water harvesting structures and utilization in the campus

S.A.ENGINEERING COLLEGE has implemented rainwater harvesting, which has saved significant amount of water. CSE, ECE & MECHANICAL blocks have rainwater-harvesting structure and the rainwater is allowed to go underground through the structures. The rain water which is channelized to raise the ground water level. Since the college well is much below the road level, water level rises in rainy season. Water collected from terrace by PVC pipe (4 inch pipe) outlet depends upon the area and number of pipes provided. Water is flowing through the pipes and drains in the rainwater harvesting pit. The drain wells are constructed for water collection & recharge of surrounding ground. Rain water pit is filled with gravels and sand for

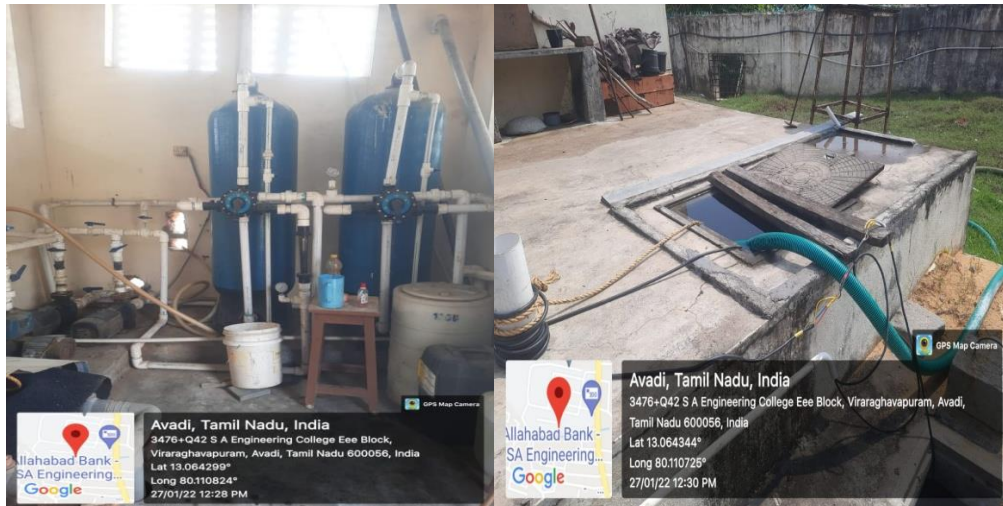
percolation of water for recharging the surrounding ground area. Total 3 numbers of 3'0" dia 5'0" depth rain water harvesting pit are available at the campus.

Green Practices

Use of Bicycles

- Plastic-free campus
- Energy conservation
- Use of renewable energy
- Plantation
- Energy conservation by preventing carbon emission.

LIFE BELOW WATER



Water Conservation

Water is priceless gift given by nature and is an indispensable resource. It is a fundamental element for every life. Water conservation is an effort to prevent the scarcity of water. It is combination of different activities like preservation of water, prevention of water pollution. It also consists of control and development of water resources, both surface and ground water.

Water conservation facilities in the Institution

- Rain water Harvesting
- Borewell

- Waste water Recycling

Rain water Harvesting

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Borewells

Borewell recharge is very effective method of rain water harvesting. The borewells on campus is used to replenish rainwater. Borewell recharge technique also makes sure the storage of naturally filtered rainwater. The water level rises when the borewells are recharged.

Waste water Recycling

Wastewater recyclers are important features in any Organization. The implementations should follow the proper guidelines for wastewater treatment system discharge standards as per Central Pollution Control Board (CPCB). The main feature of these discharge standards is the treated water should not be harmful to the biodiversity, resources and the environment. Proper records on the analysis of water input and output parameters including the running time of the wastewater treatment plant, its operation cost, its maintenance and the reuse records of the treated water is maintained. The treated waste water is used for gardening, watering of trees .

Maintenance of Water distribution systems in the campus

The ground water is pumped into storage tanks located at different places in the campus. There are number of over head storage tanks in the campus. The water is distributed through well laid pipe network. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by Civil works committee to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes.

PEACE, JUSTICE AND STRONG INSTITUTIONS



The S.A. Engineering College promotes peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.