



SITAM



SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Near RTO Office, Gajularega, Vizianagaram-535003, Andhra Pradesh, India

Accredited by "NAAC", Approved by AICTE, New Delhi

(Permanently Affiliated to JNTUGV, Vizianagaram, Recognized by SBTET, Government of A.P)
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EAMCET CODE: SGVP JNTUGV CODE: B6 SBTET CODE: 649

IQAC- SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Qualitative Metrics

Criterion 7-Institutional Values and Best Practices

Key Indicator 7.1 Institutional Values and Social Responsibilities

7.1.6	<p>Quality audits on environment and energy are regularly undertaken by the institution</p> <ul style="list-style-type: none"> ▪ Green audit ▪ Energy audit ▪ Environment audit ▪ Clean and green campus recognitions/awards ▪ Beyond the campus environmental promotion activities
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• GREEN AUDIT:

The college has adopted the 'Green Campus' system for environmental conservation and sustainability. There are main three pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO₂ emission, energy and water use, while creating atmosphere where students can learn and be healthy.

• ENERGY AUDIT:

Data collection for energy audit of the Satya Institute of Technology and Management, Vizianagaram was conducted by team for the period one month. This audit was over sighted to inquire about convenience to progress the energy competence of the campus. This audit required to recognize the mainly energy proficient appliances. Besides, several each day processes concerning common appliances have been provided which facilitate sinking the energy expenditure. The energy audit survey was completed by the team. All data collected from each classroom, laboratory, every room. The work is completed by considering, how much tubes, fan, ACs, electronic instruments, etc in each room. How much was participation of each component in total electricity consumption.

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INTRODUCTION:

A nation is tiring to advance in quantity and quality to the spread of education among the common India and development of their intelligence. In India the entire field of education and other fields of intelligent activities had been monopolized by a handful of men before independence. But today we are marching towards the desirable status of a developed nation with fast strides. But the development should be a sustained one. For achieving such an interminable development energy management is essential. As far as concerning electricity crisis, we are facing lack of electricity during office work. So, institutional management is taking design regarding production of electricity and saving electricity for eco- social aspect.

Energy requirement of India is growing and incomplete domestic fossil fuel treasury. The country has motivated strategy to enlarge its renewable energy resources and policy to establish the nuclear power plants. India increases the involvement of nuclear power to largely electrical energy development facility from 4.2% to 9%. India's industrial demand accounted for 35% of electrical power requirement, domestic household use accounted for 28%, agriculture 21%, commercial 9%, and public lighting and other miscellaneous applications accounted for the rest. Energy conservation means reduction in energy consumption without making any sacrifice of quantity or quality. A successful energy management program begins with energy conservation; it will lead to adequate rating of equipment's, using high efficiency equipment and change of habits which causes enormous wastages of energy. By observing all these study lack of electricity and huge electricity demands. It is necessary to plan to be self-sufficient in electricity requirement.

In the present study, college electricity audit has been done. In this study considered practical laboratory, instrument, Fans, air conditioners, Computers etc are considered in this study. We have studied total budget of the college, total economic investment of college on the electricity and total generation electricity from the solar electricity generation unit. Also, it is studied that exact contribution of bulb, fans, computer, instruments etc in the total requirement of electricity. We studied all these mentioned things by collecting exactly data form survey.


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Total Power Requirement of various Equipment

Appliance	Number of appliances	Power use (Watt)	Total Power Consume in '6' hours(watt x hours x no/ 1000)	Consumption in month (KWh)
Tube Lights	225	40	54	1296
Led Lights	170	20	20.4	489.6
Ceiling Fans	320	60	115.2	2764.8
Air Conditioner	15	1000	90	2160
Ups	12	900	64.8	155.2



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Exhausted Fans	18	55	5.94	142.56
Motors	5	1000	30	720
Street Lights	55	20	6.6	158.4
Printers	10	50	3.0	72
Xerox	2	1350	16.2	388.8
LCD Projector	11	350	23.1	554.4
Computers	25	300	45	1080
TOTAL(kwh/month)				9981.76

The total energy utilization of the college for different purposes is approximately 9981.76 kwh/month.

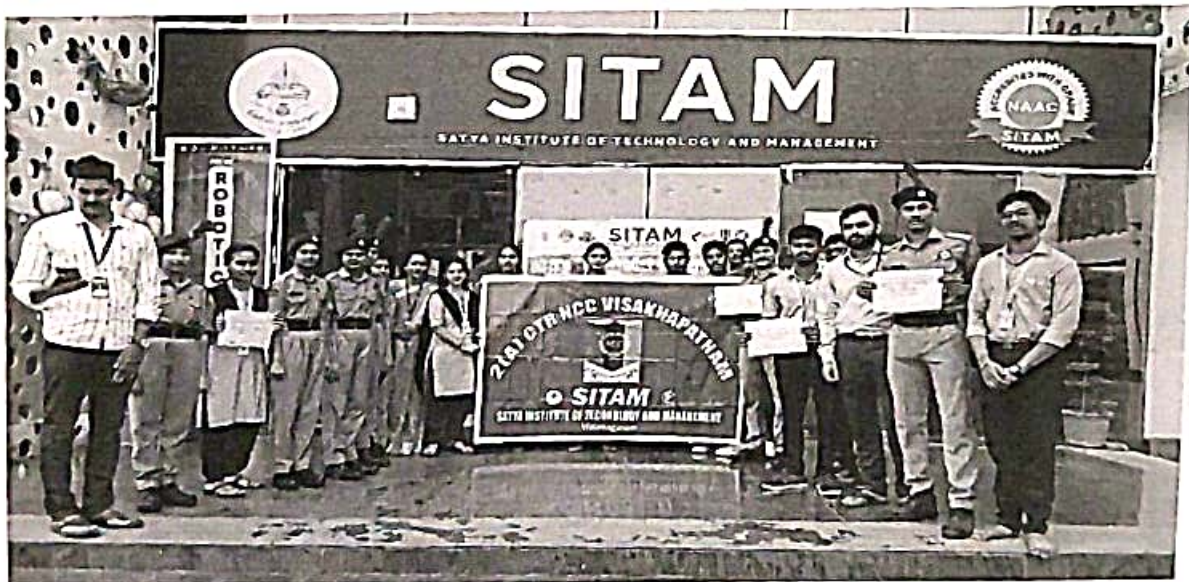

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ENVIRONMENTAL AUDIT

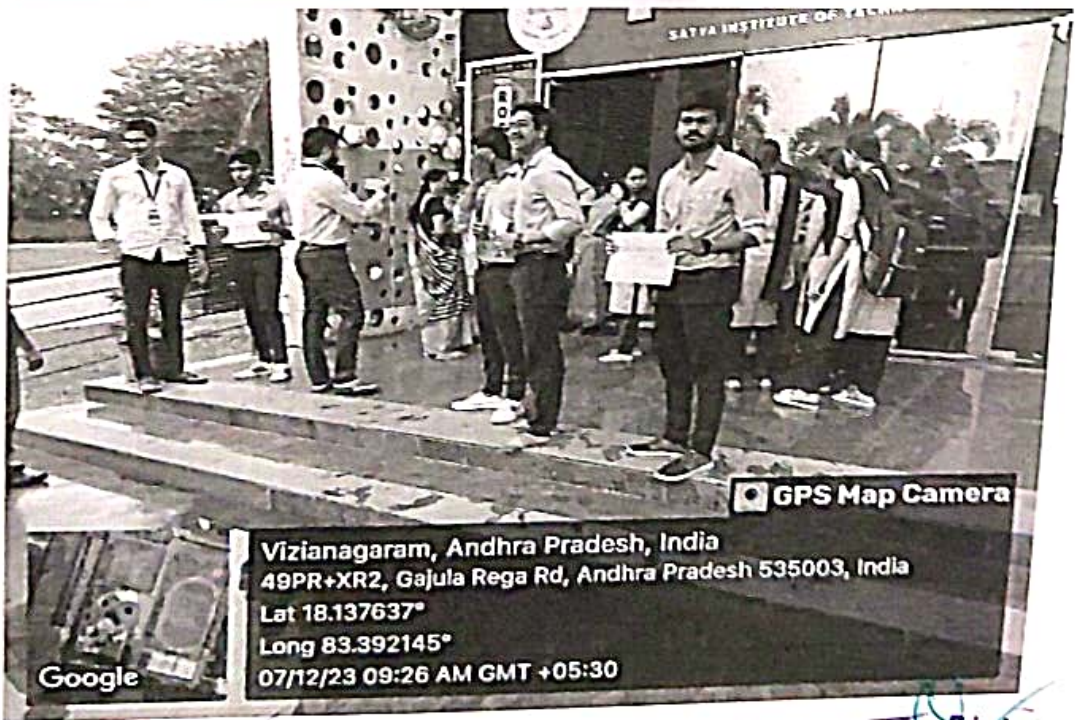
- ✓ The institute actively engages in plantation programs and maintains a green belt to mitigate pollution by lowering carbon dioxide levels.
- ✓ Annually on June 5th world environment day is observed at the university, featuring special guest discussions on the impact of a healthy environment on human life with students and staff.
- ✓ Environmental related disciplines have been incorporated in to the curriculam to impart essential environmental education.
- ✓ Solid wastes such as waste papers, blue books, vegetable matter, miscellaneous items are systematically deposited into an earthen pit for natural decomposition instead of burning, contributing a reduction CO2emissions.



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Event: slow cycling competition held at sitam

Date: 05/12/2023

REPORT

"Slow cycling competition" was organized on 4th of this month at SITAM. Vizianagaram District Ground Water Officer Sri Durgaprasad and JNTU-Gurajada Vizianagaram, Professor and Director of Academics R.Rajeswara Rao were the chief guests of this programme.

Prof. R. Rajeswara Rao spoke on this occasion and explained the benefits of cycling in our daily routine. Students are advised to make cycling a part of our daily life to stay healthy and physically fit."It offers many health benefits. Regular cycling helps in improving heart, lungs and mental health, and cycling is the most sustainable mode of transportation that does not harm the environment". He added.

In the program, Director of SITAM College Dr. Majji Sashibhushana Rao, Principal Dr. D.V. Ramamurthy, Head of EEE Department Y. Santosh, Mrs. M.Swathi from EEE, Mrs. M.Bhargavi from Civil Department, other teachers from various departments and students of all branches participated.



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Event: EACH ONE REACH ONE

Date:06/12/23

REPORT

A group of 30 students and teachers SITAM visited Kondakarakam village to organize the program "Each One - Reach One"; as part of the sustainable development goals of SITAM Engineering College in local Gajularega.

On this occasion, the team brings awareness on environmental protection, groundwater conservation, plastic prevention, sanitation and water management, etc. The program received a great response from the villagers.

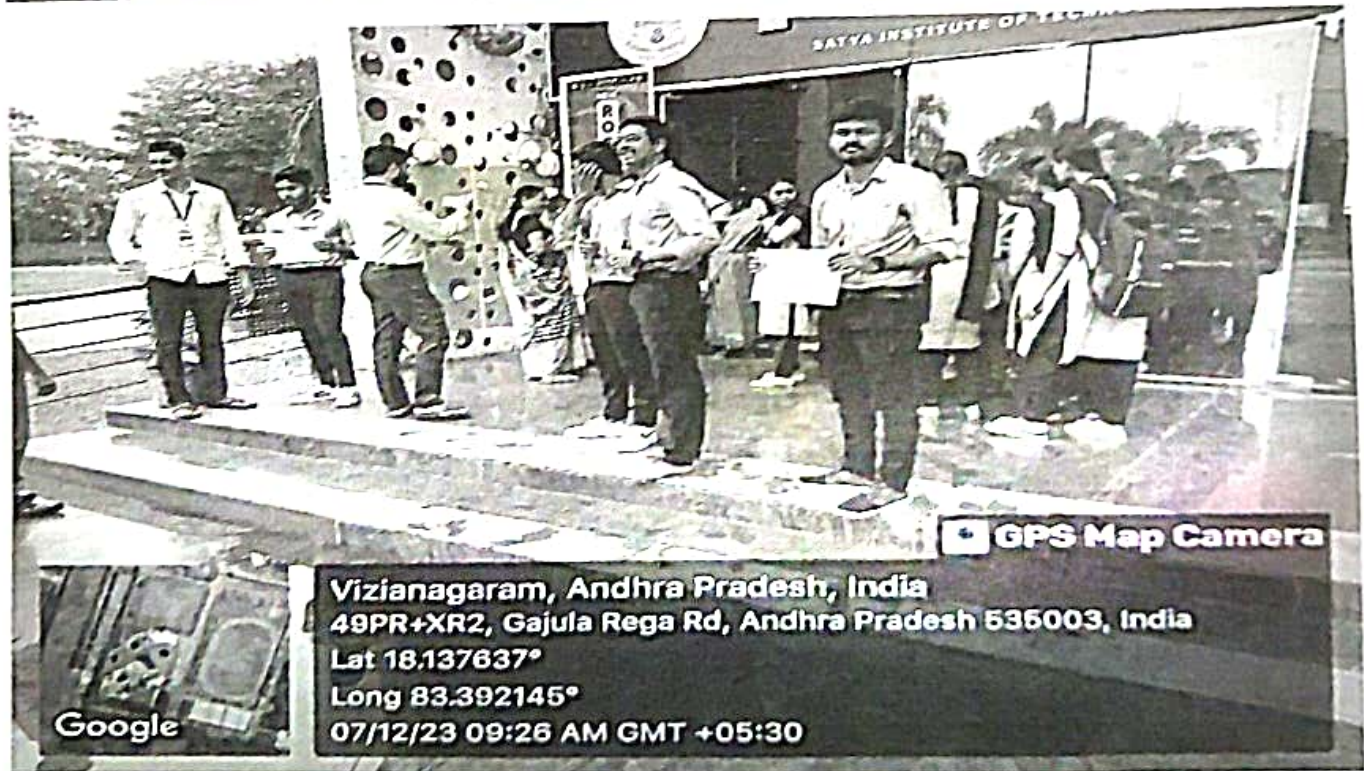
Director of SITAM College Dr. Majji Sashibhushan Rao and Principal Dr. D.V. Ramamurthy congratulated the team for organizing such awareness program. On this occasion, it was suggested that more good programs should be undertaken in the future.



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GPS Map Camera

Vizianagaram, Andhra Pradesh, India
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Certificate

Cert No: AS-OCT-P1-23-75

District Eco-SDG Challenger 2023

This is to certify and grade that Satya Institute of Technology and Management is hereby recognized as District Eco-SDG Challenger and Champion 2023 with Outstanding Performance Grade 'S' for Vizianagaram District, Andhra Pradesh. The Institution has successfully demonstrated its support to Sustainable Development Goals and Social Responsibility by conducting and showcasing several Eco-SDG and Skill Development activities, thereby contributing to national development.

P. Gopal Rao
P. Gopal Rao
COO- APEX SDG



APEX SDG (and its Consortium for District Eco-SDG Championship 2023) is a Facilitator for Implementing Sustainable Development Goals (SDGs) in Higher Education Institutions, Industries, Corporates and Enterprises, and is registered under Ministry of Micro, Small and Medium Enterprises (MSME).

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