



College Code : T8
ESTD: 2005

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, Hyderabad, R.R. Dist. 501 512.

(Approved by AICTE, Recognized by the GOVT. of T.S., Permanent Affiliation from JNTUH, Hyderabad.)

Accredited by "NAAC" with "A" Grade, Recognized by UGC Under Section 2(f) and 12(B).

Phone : 08415-201689 (O)
Mobile : 9848924705

Website : aits-hyd.org
E-mail : principalaitsh@gmail.com
Fax : 08415-201688

Haritha Haram Program

The UBA (National Service Scheme Unit) organized a Haritha Haram Program in the institute premises. NSS volunteers participated in this program. The NSS volunteers displayed the placards a rally and to create awareness among the students on the importance of Haritha Haram.







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Piglipur (V&P), Batasingaram (Post), Abdullapurmet (M), R.R.Dist., Hyderabad - 501 512.

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Green Audit system is not yet introduced in the campus, but, since beginning the importance is given for development of eco- friendly atmosphere in the campus by the management and promise to allocation of certain amount for every year from 2021. Further, the student volunteers of our NSS team also help in maintenance of greenery across the institute premises.

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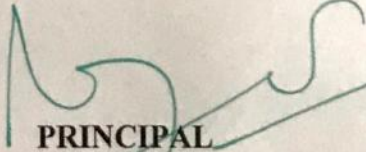
ORDERS

Dt: 17.06.2018

Audit Committee on Green Practices

As per recommendations of the Members of Green Committee in its meeting held on 17.04.2018 at 11.00 am in the Committee chamber of Annamacharya Institute of Technology & Sciences, RangaReddy Dist., Audit Committee on Green Practices is constituted with the following members to submit a detailed report on Green practices at Annamacharya Institute of Technology & Sciences, Rangareddy Dist.

A Committee to assess the green initiatives and suggest corrective measures to enhance the college profile and act as an environmental quality assessment body (GREEN CAMPUS) that aimed at performing the green audit of the institution.


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Members of the Committee:

S. No	Category	Status
01	Dr. P.V. Krishna Murthy, Principal	Chairman
02	Mr. U. Narender, HOD, EEE	Member
03	Mr. Nitesh Gaikwad, HOD, ECE	Member
04	Mr. V. Rama Krishna, HOD, CSE	Member
05	Mr. CH. Tilak, HOD, Civil	Member
06	Mr. B. Jeevan Kumar, HOD, Mech	Member
07	Mr. K. Anjaneyulu, PAO	Member

Handwritten signatures and initials in green and blue ink, including 'MVC', 'U. Narender', 'Nitesh', 'Rama Krishna', 'Tilak', 'Jeevan Kumar', and 'Anjaneyulu'.

The committee is requested to submit a detailed report in 30 days.

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GREEN AUDIT REPORT

INTRODUCTION:

The Members of Green Committee in its meeting held on 17.04.2019 at 12.30 PM in the committee room of Annamacharya Institute of Technology and Sciences, Ranga Reddy Dist, Audit Committee on Green Practices is constituted to assess the green initiatives and suggest corrective measures to enhance the college profile.

The purpose of the audit was to make sure that the practices followed in the campus are healthy and environment friendly. With this in mind, the specific objectives of the audit were to evaluate the degree to which the institution is complying with the applicable regulations, policies and standards and to ensure that the development of the college aims at sustainable development and green campus.

OBJECTIVES OF THE AUDIT:

Green Audit is defined as systematic approach to identify, quantify, record, analyze and report the components of environmental diversity viz. Green Practices, Energy Conservation. Water, Waste water, air, soil and solid wastes.

The Green Audit aims to analyze environmental practices within the campus of the institution, which will ensure the eco-friendly ambience.

- More efficient resource management
- To provide basis for improved sustainability
- Audit the green campus initiatives
- Energy Audit
- Environment Audit

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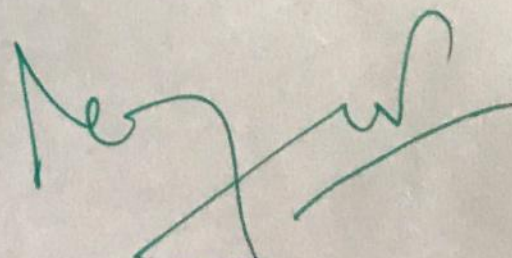
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- Impart environmental education through systematic environmental management approach and Benchmarking for environmental protection
 - o Water Audit
 - o Waste Management
- To enable waste management through reduction of waste generation. solid- waste and water recycling
- Recognize the cost saving methods through waste minimizing and managing
 - Point out the prevailing and forthcoming complications
 - Financial savings through a reduction in resource use
 - Improvements in college profile

The methodology used included physical inspection of the campus and review of the relevant documentation.

The audit procedure tried to meet the terms of Standards of Internal Auditing. In our decision, sufficient and appropriate audit procedures were followed and evidence gathered to support the precision of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit.


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SUMMARY OF FINDINGS:

The main findings of the audit are:

- All the staff and students are aware about the need for environmental issue. But deeper knowledge of the environmental issues and corrective measures must be imparted to Faculty Members, Staff and Students.
- It was also observed that a number of best practices such as maintaining garden. Planting trees in the campus (HARITAHARAM), compost generation out of Bio- degradable waste to ensure a proper waste management technique, etc. Are followed in the campus.
- However, on detailed review. It was observed that many of the practices followed in the institution are still in preliminary stage and needs further nurture. In addition. Certain processes could benefit from further review in order to improve their efficiency, effectiveness and consistency.

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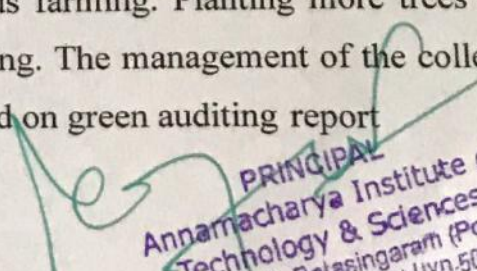
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METHODOLOGY

The Green Audit conducted is divided into three stages:

The Pre Audit Stage:

- In the pre-audit stage, meetings provide an opportunity to support the capacity and objectives of the audit and enable discussions on the feasibility associated with the audit.
- The meeting provides the first opportunity to meet the audit and deal with several practical knowledge and concerns.
- The meeting provided the chance to gather information that the audit team can study before arriving on the site.
- The audit procedure and audit-plan was handed over at this meeting and discussed in advance of the audit itself.
- At AITS, the planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management.
- The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself.
- The Management of the college has shown the commitment towards the green auditing during the pre-audit it meeting.
- They were ready to encourage all green activities. It was decided to promote all activities that are environment friendly such as awareness programs on the environment, campus farming. Planting more trees on the campus, etc. after the green auditing. The management of the college was willing to formulate policies based on green auditing report


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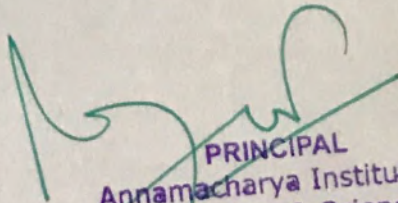
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The Audit Stage:

- The Audit Stage encompasses of the team selection and the field works performed.
- Looking after the unique structure. location and ambiance of the college, the Green Audit it Team focused on Material Issues pertaining to college which have the highest influence on the Green Attributes of the College.
- The Audit stage also focused on the Methodology adopted.
- Checklist approach is adopted for transparent evaluation of the topics and increase readability for independent reader.

The Post Audit Stage:

- The post-audit stage ensures formulation of Draft findings and sent to management response.
- Since the audit is done internally. It was important to ensure management approval for the draft.
- After getting draft approval. The audit team went for final report formulation.


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WATERMANAGEMENT

The following subcommittee is constituted to audit the water management system of this institution:

1. Mr. B. Jeevan Kumar, HOD, Mech
2. Mr. Ch. Tilak, HOD, Civil
3. Mr. S. Hanumanthu, Asst. Prof, Civil
4. Mr. K. Anjaneyulu, PAO

Convener

Member

Member

Member

Student Members:

5. Mr. R. Om Prakash
6. Mr. Ch. Sreeman
7. Mr. A, Anil Kumar
8. Mr. N. Naveen Kumar
9. Mr. Vanam Bhargav
10. Mr. V. Mukesh
11. Mr. Mutyala Rao

18T85A0311

18T85A0319

17T81A0301

17T81A0303

18T85A0303

18T85A0308

18T85A0309

Water Management Facilities:

S.No	Name of the Item	Qty	Size	Remarks
01	Overhead Tank	03	5'x26'.3"x9'.3"	A-Block
			14'x14'x6'	B-Block
			14'.5"x13'.5"x6'.3"	B-Block
02	RO System	01	500 lit/ per day	
03	Pipeline System	--	½" size	
04	Taps	155	½" size	
05	Pressing Taps	80	½" size	

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Report:

- Repair sources of water leakage, such as dripping taps.
- Regular checking and maintenance of pipelines are done to control water wastage.
- Minimize wastage of water and use of electricity during water filtration process.

The college has RO filters installed in all departments with energy efficient auto power control facility.

- Use an efficient and hygienic water storage mechanism to minimize the loss of water during.
- The college tube wells ensure 24 x 7 water availability. A automatic switch of starter with High load and water fill sensor is available.
 - To minimize excess water usage. Regular changes of taps for any leakage and arrest leakages immediately.
 - To install water recycling mechanism. No such mechanism is adopted.

ENERGY MANAGEMENT:

The following sub-committee is constituted to conduct Energy Audit of this institution.

- | | | |
|--|-------------|----------------------|
| 1. Mr. U. Narender, HOD, EEE | Convener | <i>Narender</i> |
| 2. Mr. M. Chandrashekar, Asst. Prof, EEE | Member | <i>Chandrashekar</i> |
| 3. Ms. T. Srikanthi, Asst. Prof, Mech | Member | <i>T. Srikanthi</i> |
| 4. Mr. N. Venkata Bhaskar | Electrician | <i>Bhaskar</i> |

Student Members:

- | | | |
|----------------------|------------|---------------|
| 5. Mr. K. Beem Reddy | 18T85A0203 | <i>Beem</i> |
| 6. Mr. Y. Rakesh | 18T85A0221 | <i>Rakesh</i> |
| 7. Ms. S. Kaveri | 17T81A0203 | <i>Kaveri</i> |

[Signature]
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8. Ms. P. Mounika

17T81A0205

Mounika

9. Ms. K. Vineela

17T81A0210

Vineela

10. Mr. B. Rakesh

17T81A0207

Rakesh

11. Mr. U. Shiva Kumar

17T81A0208

Shiva

S.No	Item	Quantity
01	Fans	616
02	Tube Lights	645
03	LED Bulbs	128

REPORTS:

- Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable
- The college does not have to depend on TSPDCL for electric supply in case of emergency 125KVA Diesel Generator is established.
- The college also has a eco-friendly generator for the supply of emergency electricity.
- Proposals were in finalizing stage to establish on-site micro-generation of renewable electricity.
- The college is planning for introduction of SOLAR PANNELS.
- Give preference to the most energy efficient and environmentally sound appliances available. this includes only using energy saving light bulbs The college is using LED lights as much as practicable.
- Encourage staff, students and conference guests to save energy through visible reminders, incentives and information to increase awareness. This particularly concerns turning off electrical appliances when not in use.

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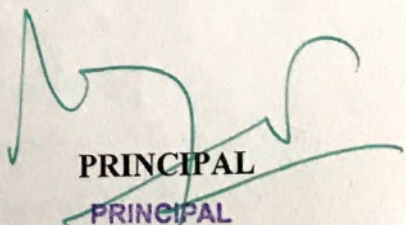
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- The college has put several posters and reminder notes in classrooms and other relevant places to turn off electric appliances when not in use.
- Monitor and understand the importance of different sources of college energy consumption.
- The college tries to put the main switch off when there is no need of electricity.
- Ensures that all electronic and electrical equipment viz., fans, lights. Computers are switched off when not in use and is generally configured in power saving mode when such option is available It is practiced.


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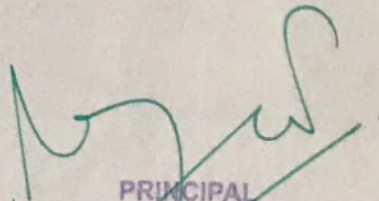
1. Dr. K. Sunder Kumar, NSS
2. Mr. Y. Prabhakar, Asst. Prof, Civil
3. Mrs. K. Uma Devi, Asst. Prof, H&S
4. Mr. RavinderBabu, Supervisor

Convener *Sunder*
Member *Prabhakar*
Member *Uma*
Member *Ravi*

Student Members:

5. Mr. Vasamsetty Vinay
6. Mr. U. Shiva Kumar
7. Mr. V. Mukesh
8. Mr. Mutyala Rao
9. Mr. G. Chandu Kumar
10. Mr. M. Pavan
11. Ms. S. Sai Pranathi

17T81A0118 *Vinay*
17T81A0208 *Shiva Kumar*
18T85A0308 *Mukesh*
18T85A0309 *Mutyala*
17T81A0405 *Chandu*
17T71A0416 *Pavan*
17T81A0541 *Sai Pranathi*


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Reports:

- Establish a Garden in the Campus College already has a well-maintained garden.
- Encourage the faculties and students to plant trees in the garden.
- The college celebrates "HARITAHARAM", an annual tree plantation program in the campus where students and teachers plant trees in the campus.
- Minimize the use of fertilizers and pesticides in college grounds, opting for the use of vermin compost produced on site wherever possible
- Moderate amounts of bio-fertilizers are used in the college.
- Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. are biodegradable and non-toxic
- Negligible amounts of washing liquids are used in the college and all the toilet cleaners are eco-friendly.
- Dispose the chemical waste generated from The oratories in a scientific manner
- Non-toxic chemicals are included in JNTUH practical curriculum. Most of the waste generated is water-soluble and ultimately disposed through normal sewage system. Diluted largely so biomagnifications is negligent.

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WASTE MANAGEMENT:

The following sub-committee is constituted to conduct audit regarding Waste Management policy of this Institution:

1. Mr. V. Rama Krishna, HOD, CSE
2. Mr. K. Anjaneyulu, PAO
3. Mrs. G. Praveena, Asst. Prof, ECE
4. Mrs. M. Jyothi, Asst. Prof, CSE

Convener

Member

Member

Member

Student Members:

5. Ms. D. Manisha, CSE
6. Ms. A. Keerthana, CSE
7. Ms. G. Swetha Sree, CSE
8. Ms. K. Jyothi, CSE
9. Ms. P. Mounika, CSE
10. Ms. S. Aushresh, CSE
11. Ms. V. Monish, CSE

17T81A0523

17T81A0539

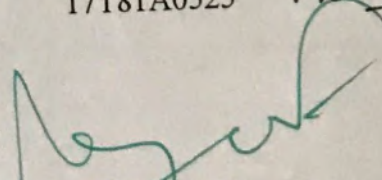
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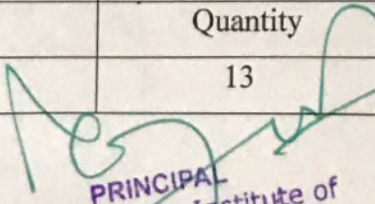
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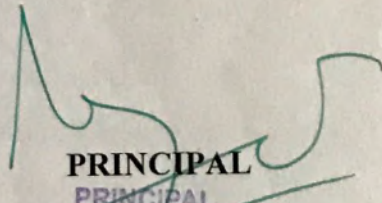
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Fax : 08415-201688

S.No	Name of the Item	Quantity	
01	Desktop Computers	406	
02	Laser Printers	24	
03	LCD Projectors	12	
DESCRIPTION OF WASTEMANAGEMENT ITEMS WISE			
S.No	Name of the Item	Quantity	Remarks
01	Hard Disks	30	
02	Motherboards	20	
03	Rams	100	
04	Cabinets	50	
05	Keyboards	50	
06	Mouses	50	
07	Cirnas Batteries	100	
08	Power Cables	50	
09	System Fans	20	
10	SMPS	20	
11	CPU Processors	10	
12	Monitors	50	
13	Routers	10	
14	Lan Switches	44	
15	Patch Cables	10	
S.No	Name of the Item	Quantity	Remarks
16	VGA Cables	13	


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17	Voltmeters	04	
18	Ammeters	07	
19	Function Generators	03	
20	CRO's	06	
21	Transformers	24	
22	Breadboards	08	
23	Connecting Wires	05	
24	RS-232 Cables	02	
25	Trainer KITS	05	
26	RPS	04	
27	Invertors	01	
OTHER ELECTRICAL ITEMS:			
01	Fans	12	
02	Lights	25	
03	UPS	02	
04	Switches	54	
05	Electrical Boards	08	
06	Ac's	04	


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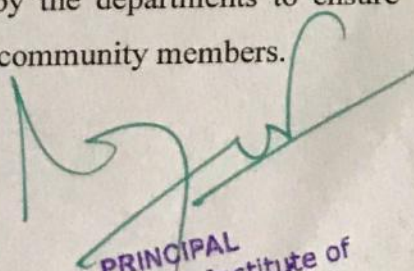
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Report:

- Make full use of all recycling facilities provided by Gram Panchayat and private suppliers, including glass. Cans, white colored and brown paper, batteries, print cartridges, cardboard and furniture.
- The college does not have any such recycling device to carry on the procedure.
- Compost, or cause to be composted, all organic
- The college has set up a dry and wet waste, green waste and non-recycled collected from canteen, gardens, offices and rooms. Compost plant that ensures proper treatment of all organic wastes.
- Recycle or safely dispose of dry wastes. Computers and electrical appliances. All dry wastes (paper, metal, glass, other dry waste. e-waste, etc.) are separated in different bins in the college and resell to the local vendor Provide sufficient.
- Accessible and well-publicized collection points for recyclable waste, with responsibility for recycling clearly allocated. The college has set up separate bins to ensure proper segregation and collection of the various wastes. The responsibility of recyclable waste is however still not taken up the college.
- Make specific arrangements for events, such as community events. Seminars and conferences in order to both arise consciousness among students and others and also to minimize the waste produced and maximize what is recycled/reused. The college organized several seminar and community program by the departments to ensure both consciousness and awareness among students and community members.


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- Dispose all waste, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment. Yes, the college disposes all wastes, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment.
- To recycle and reuse of kitchen wastes (from canteen and hostels) and garden waste. Kitchen wastes and garden wastes commonly are recycled to form nutrient rich quality organic manure for agricultural purpose.
- Ensure use of eco friendly transport option about 30% of the students and teaching and non-teaching staffs of the college use bicycle as the main mode of transport. The college also encourages transport by bicycle to students.
- Promote environmental awareness as a part of coursework in various curricular areas, independent research projects, and community service UGC projects on sustainable development/ natural resources.
- Compulsory ENVS paper of 100marks in the University Syllabus for all the students of all streams to develop Environmental Awareness (70MCQ + 30 Project).
- Reduce the rate at which the College contributes to College does not directly or indirectly the depletion and degradation of natural resources participate in depletion and degradation of natural resources.
- Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.
- Seminars and awareness programmes are conducted periodically on nature and natural resources.



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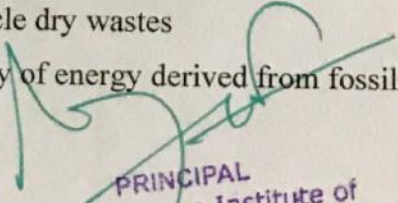
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- Review architecture of existing buildings and reviews ways, in consultation with experts, to reduce usage of energy for such buildings. Offering greatest efficiency for energy and water usage.
- New constructions are in compliance with green standard.
- Conduct environmental awareness posters and seminars as a part of the programme.
- Yes. The college places several posters and placards in the campus to ensure that environmental awareness is conducted. Also. Seminars are organized on environmental theme in the college.

RECOMMENDATIONS

- Maximize the renewable flow energy to initiate healthy and continuous flow of energy
- To set up solar panel in the college to ensure continuous renewable energy flow.
- To channelize flow resource to initiate rainwater harvesting by digging wells to accommodate rainwater flowing through the roof tops.
- Maximize the proportion of waste that recycle & minimize the quantity of non recyclable refuse
 1. Implement a mechanism to recycle plastic waste in a scientific manner.
 2. To implement measures to recycle dry wastes
- Reduce energy consumption. especially of energy derived from fossil fuels.


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- All the areas of the campus should be under the preview of solar renewable power control.
- Also, switch off drills are to be set up in the campus to ensure all the electric devices to be in power off measure.
- Minimize the use of chemical pollutants
- The chemical pollutants from the chemical laboratories are water soluble. So, it is recommended that this water is recycled properly.
- Institute is covered with over 600 trees aged over 15 years.
- Over 60 plants in pots spreading over all departments.
- Drinking water treatment and management 500 liters per day.

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