

NTRGOVERNEMENT DEGREE COLLEGE, VAYALPAD, CHITOOR DIST.



**Report
on
HOUSE ENERGY AUDIT
1st FEBRUARY 2022**

Organized by
Department of Physics



NTR GOVERNMENT DEGREE COLLEGE, VAYALPAD, CHITTOOR DIST.

DEPARTMENT OF PHYSICS

Date: 29-12-2022, To

The Principal,

NTR GDC,

Vayalpad

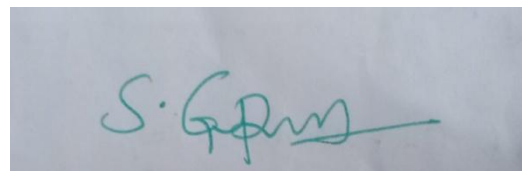
Respected sir

Sub: Permission for Conducting of Certificate Course-HOUSE ENERGY AUDIT-
Request-Reg.

I submit that our Department is going to conduct a certificate course '**HOUSE ENERGY AUDIT**' on 01.02.2022. This course is very useful to the BSc students to create awareness about Calculation of power bill and reduction of the power consumption in their houses. Hence I request you to give permission for conducting the above Course.

Thank you

Yours faith fully



NTR GOVERNMENT DEGREE COLLEGE, VAYALPAD, CHITTOOR DIST.

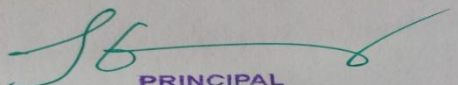
Date: 31-01-2022,
Vayalpad.

CIRCULAR

It is to inform that all B.Sc students that the department of Physics is going to
Conduct a Certificate Course on 01-02-2022.

Certificate Course: **“House Energy Audit”**

PRINCIPAL



PRINCIPAL
NTR GOVT DEGREE COLLEGE
MALMIKIPURAM ANNAMAYYA Dist

NTR GOVT. DEGREE COLLEGE, VAYALPAD, CHITTOOR DIST.
CERTIFICATE COURSE
DEPARTMENT OF PHYSICS
Certificate Course on House Energy Audit

SYLLABUS

Introduction to Energy Efficiency and Energy Conservation in Domestic Sector

Energy Efficiency in Lighting System

Energy Efficiency in fans and Air conditioners

Air conditioners - Part 2 and Refrigerators

Energy Efficiency in pumping system

Energy Efficiency in Geysers and electrical cooking appliances

Energy Efficiency in other Kitchen appliances

Energy Efficiency in other Electronic appliances

Home energy auditing and report preparation

Electrical safety and Earth leakage

Miscellaneous Equipment– Inverter, TV, Computer etc.

Renewable Energy Options in Domestic Sector Solar off-grid
1-grid etc.

Assessment

Conducting a standard home energy audit with the provided data

Viva examination

Introduction

NTR govt. Degree College, Vayalpad, Chittoor Dist. is conducting a certificate course on House Energy Audit for B.Sc Student (30 members). On completion of this course, can conduct House energy audits as per the requirement of the consumer, also they can work as a consultant for the selection of home appliances and equipment at the design stage of houses.

About House Energy Audit Program

The highest electrical energy consuming sector in Andhra Pradesh state is domestic sector, which is more than 49% of the total electrical energy consumption. Hence the domestic sector is one of the potential areas where we can bring various measures in energy efficiency and conservation and reduce the state's energy consumption and carbon footprint. The House Energy Audit Program is defined as a study of energy uses of various energy consuming equipment and appliances in a house and submission of a technical report with the solutions to bring energy efficiency and energy conservation. This leads to reduction in energy bills and carbon footprint of the consumer.

About Certificate course on House Energy Audit.

The house energy audit shall be conduct by department of physics, who has successfully completed the 30-Hour certificate course on House Energy Audit. House energy auditors can not only conduct the home energy audit but also act as a consultant for recommending energy efficient appliances and equipment during the design and construction stage of the houses.

Brief Report on CERTIFICATE COURSE HOUSE ENERGY AUDIT



House Energy Audit certificate course (01-02-2022)

Organized by **Department of Physics**

Department of Physics organized Certificate Course on “ House Energy Audit” on 1st February 2022 with science faculty members Dr. S. Guruprasad, Dr. K. Appala Naidu and Sri. Subramanyam.

The inauguration of certificate course on 1st February 2022, Our beloved chief guest our principal Dr. V. Subramanyam Achari had shared his knowledgeable speech on **get a reliable knowledge of energy consumption**. Identify where and how energy and factors affecting consumption consumed. Optimize power supply.

Our College Vice Principal Sri. J. Krishnamurthy expressed his views to raise awareness on the energy consumption in our house.

Course Duration : 30 days

Course Outcomes:

- Review and analyse energy usage history to create a baseline for which savings can be measured in the audited building.
- Determine what can be done to reduce energy consumption throughout the buildings and what options are available for system improvements

- Identify and evaluate measures that could improve the environmental performance of the house buildings.



Certificate Cause									
S.No.	1	2	3	4	5	6	7	8	9
NAME OF THE STUDENT									
CLASS									
1	N. VISHNU PRIYA	I B.Sc(MPCo)							
2	G. VARUNDHARA	I B.Sc(MPCo)							
3	E. RIZWANA	I B.Sc(MPCo)							
4	K. HARISH	I B.Sc(MPCo)							
5	B. UAAHESWAR	I B.Sc(MPCo)							
6	D. NAVEEN	I B.Sc(MPCo)							
7	S. AFROZ	I B.Sc(OZC)							
8	R. AMRUTHA	I B.Sc(OZC)							
9	M. AKRITHA	I B.Sc(OZC)							
10	S. RAHMAN	I B.Sc(OZC)							
11	S. MEHAR	I B.Sc(OZC)							
12	V. NANDHINI	I B.Sc(OZC)							
13	M. PRASANNA	I B.Sc(OZC)							
14	P. SAILAJA	I B.Sc(OZC)							
15	S. SARITHA	I B.Sc(OZC)							
16	B. AKHILA	II B.Sc(MPCo)							
17	E. RANI	II B.Sc(MPCo)							
18	M. NARASAMMA	II B.Sc(MPCo)							
19	S. AMRUTHA JYOTHI	II B.Sc(MPCo)							
20	S.AASTYA ANJUM	II B.Sc(MPCo)							
21	S. SAYEED BASHA	II B.Sc(MPCo)							
22	S. YASMINE	II B.Sc(MPCo)							
23	G. SILPA KUMARI	III B.Sc(MPCo)							
24	K. DEEPIKA	III B.Sc(MPCo)							
25	K. PRAMEELA	III B.Sc(MPCo)							
26	M. SWATHI	III B.Sc(MPCo)							
27	P. RAJANI	III B.Sc(MPCo)							
28	P. PRASANNA	III B.Sc(MPCo)							
29	S. MURASHA VALLI	III B.Sc(MPCo)							
30	V. TEJAGANI	III B.Sc(MPCo)							

LIST OF STUDENTS

S.No.	NAME OF THE STUDENT	CLASS
1	N. VISHNU PRIYA	I B.Sc(MPCs)
2	G. VASUNDHARA	I B.Sc(MPCs)
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N.T.R. GOVT. DEGREE COLLEGE

Accredited with B++ Grade by NAAC
Valmikipuram. Annamayya Dist, (A.P.)

Certificate Course in House Energy Audit

Certificate

This is to certify that Mr /Ms
Son / Daughter of Sri / Smt
has undergone 30 days' training in House Energy Audit conducted
during.....202 His /her grades are as follows.

Paper	Subject	Grade
	Energy Audit Skills	

His / her character and conduct has been

Co-ordinator

Principal

Model Certificate

Distribution of Certificates



M.NARASAMMA-II MPCs



N.Vishnu Priya-I MPCs



S. Syed Basha-IIIMPCs