"INTRODUCTION TO ENERGY AUDITING & BASICS ON HOW TO CONDUCT AN ENERGY AUDITING"

ADD ON COURSE REPORT

Conducted by

Department of Electrical & Electronics Engineering



SCMS School of Engineering and Technology

Karukutty - 683576

Index

Sl no	Content			
1	Course Details	3		
2	Introduction to energy auditing & basics on how to conduct an	4		
	energy auditing			
3	Detailed syllabus	5		
4	Assessment Pattern	6		
5	Attendance	7-8		
6	Course summary	9		
7	Feedback	10-11		

Course Details

Name of the course	Add on course		
Conducted by	Department of Electrical & Electronics Engineering		
College	SCMS School of Engineering & Technology, Karukutty		
Eligibility	U.G Students		
Title of the course	Introduction to energy auditing & basics on how to conduct an energy auditing		
Duration of the course	30 hours		
Class	S4, S6 & S8 EEE		
Course dates	Special sessions during class hours		
Sessions	Forenoon session: 8:45 am-11:45 am (3 hours)		
	Afternoon session: 12:30 pm - 3:30 pm (3 hours)		
	Total: 30 hours (6 hours per day)		
Course Coordinator	Ms. Megha Jasmin Benny (Certified Home energy Auditor), Assistant Professor		
Head of department	Dr. Jayanand B		

"Introduction to Energy Auditing & Basics on how to conduct an Energy Auditing"

Objective of the Course

The primary objectives of energy audit are to identify and evaluate opportunities to reduce energy consumption per unit of product output and reduce operating costs through energy conservation and planning. Energy audit produces a bench-mark for managing energy in the organization and also provides the basis for planning a more effective use of energy throughout the organization. The objective of this course is to provide a basic idea to the students to how to conduct an energy audit

Topics Covered:

- 1. Who needs an energy audit, and the benefits an audit provides?
- 2. How to undertake an energy audit?
- 3. The skills and knowledge needed to undertake an audit
- 4. What career paths are available to energy auditors.
- 5. Basics on how to conduct and energy auditing

Detailed syllabus

Sl no	Unit Name	Content			
1.	Introduction to Energy Auditing	Who needs an energy audit, and the benefits an audit provides How to undertake an energy audit The skills and knowledge needed to undertake an audit What career paths are available to energy auditors.			
2.	What is an energy audit?	 What is an energy audit? Who needs an audit? Benefits of an energy audit Global Energy Audit standards 			
3.	Required skills & knowledge for energy audit mastery	To be able to effectively undertake an energy audit, you need a safety mindset, familiarity with standards, technical knowledge and the ability to engage effectively with energy users.			
4.	Energy auditing career paths	 Energy manager/Auditor Energy Consultant Energy efficient Project Manager Sustainability consultant, officer or manager Renewable Energy Specialist 			
5.	Basics on how to conduct energy auditing	Hands on training (Load Calculation)			

Assessment pattern

Sl no	Name	Marks
1	Assignment	30
2	Examination	50
3	Viva	20

Attendance

SI no	Name of Student	Day 1 (8:45 am - 3:30 pm)	Day 2 (8:45 am -3:30 pm)	Day 3 (8:45 am - 3:30 pm)	Day 4 (8:45 am - 3:30 pm)	Day 5 (8:45 am – 3:30 pm)
1	ABHINAV RAJ		\boxtimes	\boxtimes	\boxtimes	\boxtimes
2	ABHISHEK ACHUTHAN	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
3	AGIN K SIMON	\boxtimes		\boxtimes	\boxtimes	\boxtimes
4	AJMAL SHAJI	\boxtimes		\boxtimes		\boxtimes
5	AKSHAY BABU	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
6	ASHFIYA SALEEM C S	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
7	KEERTHANA P MENON	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
8	MUHSINA O M	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
9	NIJON ALEX		\boxtimes	\boxtimes	\boxtimes	\boxtimes
10	NISSIN C P	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
11	PARVATHY RAMACHANDRAN	\boxtimes	\boxtimes		\boxtimes	\boxtimes
12	PRATUL RAMAKRISHNAN	\boxtimes	\boxtimes	\boxtimes		\boxtimes
13	REVANTH C S	\boxtimes	\boxtimes		\boxtimes	\boxtimes
14	SABARINATH S	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
15	SANJO JAIJI		\boxtimes	\boxtimes		\boxtimes
16	AHMED FAIROOS FAKHARUDHEEN	\boxtimes	\boxtimes	\boxtimes		\boxtimes
17	AISHWARYA K	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
18	AKSHAY K SUDHAKARAN	\boxtimes	\boxtimes	\boxtimes		\boxtimes
19	ALBY JAMES	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
20	AMITH RAJESH	\boxtimes	\boxtimes		\boxtimes	\boxtimes
21	ARJUN A NAIR	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
22	ASHIN ROY	\boxtimes		\boxtimes		\boxtimes
23	ATUL P K	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
24	GOVIND P C	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
25	HRIDYA L P	\boxtimes		\boxtimes	\boxtimes	\boxtimes

26	MOHAMMED HAMIM K A	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
27	DHEERAJ KUMAR T.S	\boxtimes	\boxtimes	\boxtimes		\boxtimes
28	ADITYA J P	\boxtimes	\boxtimes		\boxtimes	\boxtimes
29	AJAL KRISHNA P J	\boxtimes	\boxtimes	\boxtimes		\boxtimes
30	AJOY SABU	\boxtimes	\boxtimes			\boxtimes
31	EBIN THOMAS	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
32	HAMNA THASLINA	\boxtimes	\boxtimes			\boxtimes
33	SANJAY SAJITH	\boxtimes		\boxtimes		\boxtimes
34	SETHUNATH K M	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
35	SREELEKSHMI A	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
36	Mr. JOSE SHERIL D'COTHA – Asst. Professor, Mechanical Engineering	\boxtimes		\boxtimes	\boxtimes	\boxtimes
37	Mrs. LEKSHMI NAIR – Asst. Professor, Electronics & Communication	\boxtimes	\boxtimes	\boxtimes		\boxtimes

Course Summary

Introduction to Energy Auditing & Basics on how to conduct and Energy Audit (30 Hours)

30 hours Add On Course on "Introduction to Energy Auditing & Basics on how to conduct and Energy Audit" was organized by the EEE dept. of SCMS School of Engineering & Technology during April/May 2024. This course aims to provide opportunities to students to enrich their technical knowledge in the field of Energy auditing. The resource person was Ms. Megha Jasmin Benny (Certified Home Energy Auditor), Assistant Professor, EEE dept. The Programme is also designed to make students capable to understand the energy usage and ways to use energy better and also identify the safety concerns with electrical systems, wiring, and ventilation, thus making their home or business safer. The course was opened to S4, S6 and S8 EEE students. 35 students attended the program. A Technical training session was also provided to the members of IQAC department and also to the faculties of Electronics & Communication department as a part of our add on course. A hands on training was provided by Mr. Varun Jose, Assistant Professor, EEE department to the students, the members of IQAC and faculty of electronics & communication department. The feedback of the sessions received by the participants & faculties was excellent.

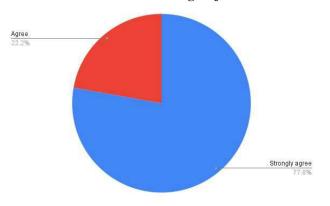




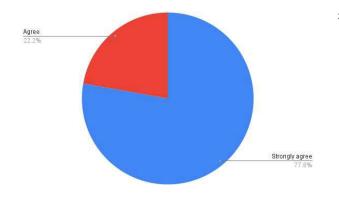
Fig: Hands on training session being provided to students, IQAC member & EC faculty by Mr. Varun Jose, Asst Professor, EEE

Feedback

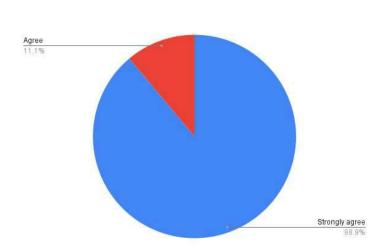
1. I achieved the training objectives



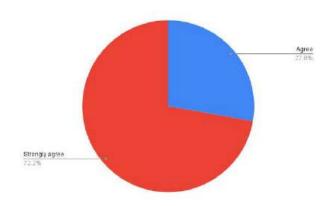
2. The instructions were clear & easy to follow



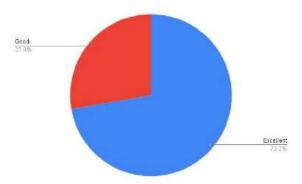
3. The presentation slides were clear



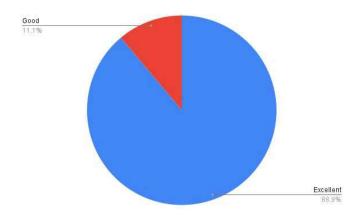
4. Gained practical knowledge



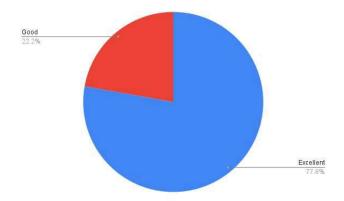
5. Trainer made the subject understandable



6. Trainer provided technical & practical knowledge



7. Overall training



Ms. Megha Jasmin Benny

Course Coordinator

Dr. Jayanand B

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