




DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Activity Supports Employability/Entrepreneurship/Skill Development

Course Code : 15UEE924
Course Name : Energy Audit
Academic Year : 2020 – 2021 (ODD) Class : III Year


Category	Employability
Activity	Videos about Energy Conservation
Topic	Energy Conservation in Lighting



1. Introduction


Methodology

Example. Incandescent to LED



80%

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Incandescent Bulb	LED Bulb
60 W	10 W

Time of use	7 hours / day
	6 days / week
	52 weeks / year


Consumption = **Power** x **Time**

	Consumption	Power	Time
Units	kWh	W	hours
Starting point	131	60	2.184
Final point	21,8	10	2.184
Saving	109,2		

How do we set this time?

8

Calculation of Energy-Saving Measures for Indoor Lighting



Energy Conservation in lighting

Outcome	Students review the electrical appliances used at home and estimate the energy used for each. The results can help to show the energy hogs that could benefit from conservation or improved efficiency. Evaluating energy consumption is the first step engineers take when trying to reduce energy consumption. This step is part of the "understand the problem" and "gather information" steps in the problem solving spiral. So, this course helps the students to increase the employability.
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Course Instructor

HoD/EEE