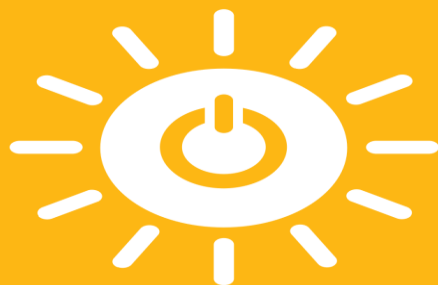


# **7 AFFORDABLE AND CLEAN ENERGY**



## **Contributors**



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### About the Goal 7 – Affordable and Clean Energy

The primary aim of SDG 7 is to ensure universal access to affordable, reliable, sustainable, and modern energy by 2030. This goal tackles critical global challenges related to energy access, efficiency, and sustainability.

#### Key Targets of SDG 7

- **Universal Energy Access:** Guarantee access to affordable, reliable, and modern energy services for all—both in urban and rural areas. This includes electricity, clean cooking technologies, and other sustainable energy sources.
- **Renewable Energy:** Significantly increase the share of renewable energy in the global energy mix by promoting solar, wind, hydro, and geothermal sources, thereby reducing reliance on fossil fuels and addressing climate change.
- **Energy Efficiency:** Double the global rate of improvement in energy efficiency. This involves adopting energy-saving practices across sectors such as industry, construction, and transport to reduce overall consumption and greenhouse gas emissions.
- **Sustainable Energy Infrastructure:** Strengthen international cooperation to support clean energy research, innovation, and infrastructure—especially in developing countries—to ensure secure and resilient energy systems.
- **Energy for Development:** Promote the use of sustainable energy in sectors like agriculture, industry, and transport, while supporting developing nations in upgrading energy technologies and infrastructure.

SDG 7 is foundational to achieving many other Sustainable Development Goals, as energy access influences poverty reduction, health, education, environmental protection, and inclusive economic growth. Ensuring progress on SDG 7 requires coordinated global, national, and local efforts to expand

access to clean, affordable, and modern energy—protecting both people and the planet for future generations.

### TARGETS UNDER THE GOAL



### OUR INITIATIVES

JSS College of Pharmacy, Ooty, a constituent college of JSS Academy of Higher Education and Research (JSS AHER), is renowned not only for its academic excellence but also for its outstanding infrastructure, which significantly contributes to a holistic teaching and learning experience. The college is nestled in a tranquil environment, spanning over 6.5 acres, and is exclusively dedicated to the pharmacy discipline. This serene and purpose-built campus creates an ideal setting for students to focus on academic and research pursuits.

The campus is equipped with **modern infrastructure** that caters to both academic and residential needs. One of its key features is the **centralized gas supply** system, which ensures safety and efficiency in laboratories and hostel kitchens. The institution has invested in **exclusive high-power transformers and generator backup systems** to provide a stable and uninterrupted power supply, essential for continuous laboratory experiments, research, and other academic activities. The entire campus, including hostels, is **Wi-Fi enabled**, facilitating seamless internet connectivity for students and faculty members around the clock.

Academic facilities include **state-of-the-art laboratories** that are accessible 24x7. These laboratories are

well-equipped with advanced instruments and specialized software, fostering high-quality research and practical learning in pharmaceutical sciences and pharmacy practice. The college also houses **smart classrooms, simulation laboratories**, and a **model pharmacy**, all of which are integral to providing hands-on training and preparing students for real-world clinical and industrial scenarios.

The **central library** is another cornerstone of the academic infrastructure, offering a rich collection of over **10,000 print and digital resources**, including textbooks, reference books, national and international journals, and access to databases like **Clinical Key**, which provides up-to-date clinical and pharmacological information. The library serves as a knowledge hub for students, researchers, and faculty members alike.

To support the overall development of students, the college also provides **comprehensive residential facilities** for both students and staff members. These hostels are well-maintained and offer a safe and comfortable living environment. In addition, the campus features various **indoor and outdoor sports facilities**, promoting physical wellness and team-building skills. A **multipurpose auditorium** is available for academic events, seminars, cultural programs, and other institutional gatherings. A fully equipped **health centre** is also present on campus to cater to the medical needs of students and staff.

JSS College of Pharmacy is also committed to promoting **sustainability and energy conservation**. As part of its green initiative, the college is systematically replacing all conventional phosphorous light bulbs with energy-efficient **LED bulbs** across the campus. Looking forward, the institution plans to implement an **electricity capacitor panel** to enhance power conservation and reduce energy wastage.

In summary, the college's well-rounded and forward-thinking infrastructure supports its mission to deliver excellence in pharmaceutical education, research, and student welfare, while also embracing sustainable development practices for a better future.

## PHOTOS OF THE ACTIVITIES INITIATED

### Wi-Fi ENABLED CAMPUS

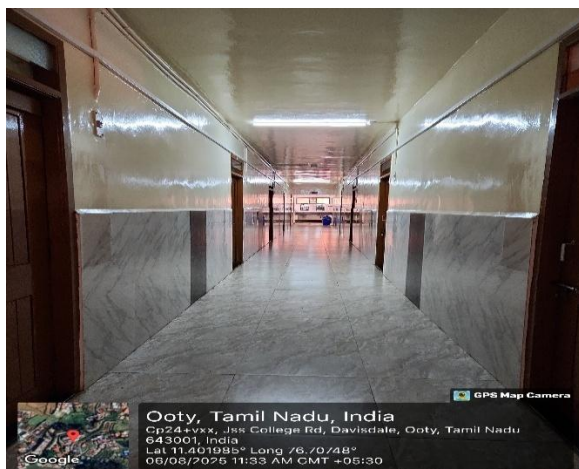




## ENERGY SAVING (LED) LIGHTS IN CAMPUS



## Infrastructure Development



## Electricity Bill statement

JSS College of Pharmacy, Ooty electricity unit consumed and amount. Compared to 2023-2024 this 2024-2025 consumption of electricity is reduced.

### Statement showing details of electricity and diesel consumption from August 2024 to July 2025

Sl. No.	Month/Year	Demand MD	Used MD	Total Amount	DG Unit	Diesel (litres)	Diesel Purchase Amount
1	Aug-24	150 KVA	135 KVA	5,39,878.00	960	300	28,310.00
2	Sep-24	150 KVA	135 KVA	5,10,474.00	610	300	28,311.00
3	Oct-24	150 KVA	139.2 KVA	5,17,307.00	-	-	-
4	Nov-24	150 KVA	135 KVA	5,35,347.00	640	-	-
5	Dec-24	150 KVA	-	-	-	-	-
6	Jan-25	150 KVA	127.20 KVA	4,88,511.00	-	300	28,302.00
7	Feb-25	150 KVA	122 KVA	4,08,786.00	-	300	28,281.00
8	Mar-25	150 KVA	130.40 KVA	4,91,718.00	1664	-	-
9	Apr-25	150 KVA	130.80 KVA	5,39,245.00	240	300	28,281.00
10	May-25	150 KVA	118.80 KVA	4,74,751.00	300	600	56,646.00
11	Jun-25	150 KVA	114.40 KVA	4,54,308.00	193	600	56,646.00
12	Jul-25	150 KVA	113.20 KVA	4,43,287.00	88	-	-
		TOTAL		59,43,490.00	4695	2700	2,54,777.00

  
Electrician



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