



# St. Francis

## College for Women

Begumpet, Hyderabad-500016  
(Autonomous & Affiliated to Osmania University)  
NAAC Re-accredited with 'A' Grade 4<sup>th</sup> Cycle



जैवप्रौद्योगिकी विभाग  
DEPARTMENT OF  
**BIOTECHNOLOGY**

सत्यमेव जयते

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2025 - 2026

Report on Experimental workshop on Solar-Powered Portable Energy Systems

Date: 27 January 2026

Time: 9:00 AM

Brochure:

The brochure features a background image of a solar panel and a portable energy system. It includes the logos of St. Francis College for Women and the Department of Biotechnology. The text is centered and reads: 'DBT STAR COLLEGE (Under Strengthening Component) Department of Physics Organizes Experimental Workshop on Solar-Powered Portable Energy Systems'. Below this, it lists the date as January 27, 2026, at 9:00 AM, and the location as Physics Lab. A box at the bottom left specifies 'Students of B.Sc. III B'.

The Department of Physics organized an experimental workshop on “Solar-Powered Portable Energy Systems” under DBT STAR COLLEGE (Strengthening Component) for the Physics students of III<sup>rd</sup> year (MPC and MPCs). Around 45 students and 2 faculty members participated.

Objectives:



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1. To introduce students to the basic principles of solar energy conversion and portable energy storage systems.
2. To provide hands-on experience in assembling and testing a functional solar-powered power bank.
3. To enhance understanding of the components and circuit design involved in renewable energy devices.

### Outcomes:

1. Students gained practical knowledge of solar power bank design and the working of its individual components.
2. Improved understanding of renewable energy applications and portable energy solutions was achieved among the participants.
3. The experimental approach strengthened technical skills and confidence in building and demonstrating simple electronic energy devices.

### Pictures:





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