



RAJALAKSHMI
ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

GE19612 - Professional Readiness for Innovation, Employability and Entrepreneurship

INTEGRATED SOLAR TRACKING AND CONVERSION SYSTEM

ABSTRACT

The Integration of a solar tracking system with a solar-powered car enhances energy efficiency and mobility. The system utilizes Light-Dependent Resistors (LDRs) and a servo motor to track the sun's position and adjust the azimuth location of the solar panels accordingly. By incorporating Arduino technology, the system offers flexibility for customization and integration with other systems. The integration of a solar car adds mobility to the tracking mechanism, creating a sustainable mode of transportation powered by renewable energy. The project involves hardware integration, testing, and optimization to ensure efficiency. This innovative solution contributes to improving solar energy harvesting efficiency, making it suitable for small-scale solar power applications while offering opportunities for learning and innovation in renewable energy and vehicle design.

Batch Members:

III Year ECE D
M SHREEVIDYA (2116210801194)
D SRIVATSEN (2116210801213)
K THARUN (2116210801224)

Supervisor:

Ms. M. Anitha Mary, M.Tech.,
Assistant Professor (SS)
Department of ECE

Signature of Supervisor