

Gravity Light

T John Institute of Technology/ 1st SEM/

PROBLEM STATEMENT

How might we use alternative sources to generate electricity?

TEAM MEMBERS

MITHUN H G
GOKUL A
PRAKRUTHI C
PRAJWAL J S
RAHUL B

INTRODUCTION

Gravity light is an innovative and sustainable lighting solution that harnesses the power of gravity to generate light. It operates on a simple yet effective principle: as a weight descends due to gravity, it converts potential energy into kinetic energy. This energy is then transferred to a gear mechanism or generator, which drives an electric generator to produce electricity. The generated electricity powers an LED light, providing illumination. To use gravity light,



IDEA GENERATION

The weight is initially lifted to an elevated position, storing potential energy. When the weight is released, it gradually descends under the force of gravity, which drives the energy conversion process. The design of gravity lights is often compact and portable, making them suitable for off-grid areas or locations with limited access to electricity. This innovative approach offers an environmentally friendly and cost-effective lighting solution, particularly in communities where traditional power sources are scarce.

PROTOTYPE IMAGES

