

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-**

**590 018**



**A MICRO PROJECT REPORT ON  
“Solar Charger Circuit using IC LM317”**

**Submitted By,**

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**CERTIFICATE**

This is to certify that the Micro-Project entitled “Solar Charger Circuit using IC LM317” has been Successfully Completed by

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The bonafide students of **Department of Basic Sciences, Alva's Institute of Engineering and Technology**, affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

**Dr. Shashi Kumar K**  
Mini Project Guide

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## **ABSTRACT**

Solar energy is the most sought-after energy source, with fuel price spikes dominating headlines. Solar chargers are simple, portable, and ready-to-use equipment that anybody, especially in rural regions, can utilise. Going solar may help with a variety of issues, including reducing carbon emissions and reducing reliance on fossil fuels, as well as addressing the current energy crisis. The purpose of this project is to create a portable solar charger. Solar panels do not provide regulated voltage, which is required to charge batteries. As a result, to maintain the requisite constant voltage, an external adjustable voltage regulator is employed. To guarantee that charging is stopped off at the saturation point, a zener diode is activated.