

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
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**A MICRO PROJECT REPORT ON
“FUEL RESERVE INDICATOR FOR VEHICLES”**

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CERTIFICATE

This is to certify that the Micro-Project entitled "FUEL RESERVE INDICATOR FOR VEHICLES" has been Successfully Completed By

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The bonafide students of Department of Electronics and Communication Engineering, 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.

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ABSTRACT

Nowadays vehicles come with a dash-mounted fuel gauge meter that indicates the fuel levels on an analogue display. The 'reserve' level is indicated by a red marking in some vehicles, but the needle movement through the red marking may be confusing and not precise. This fuel reserve indicator circuit monitors the fuel tank below the reserve level and warns through LED indicators and audible beeps when the danger level is approaching.

The fuel reserve indicator circuit system consists of a tank-mounted float sensor and a current meter (fuel meter), which are connected in series. The float-driven sensor attached to an internal rheostat offers high resistance when the tank is empty. When the tank is full, the resistance decreases, allowing more current to pass through the meter to give a higher reading. The fuel monitoring circuit works by sensing the voltage variation developed across the meter and activates the beeper when the fuel tank is almost empty.