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**Certificate**

*This is to certify that the project entitled*

**LED LAMP FLASHER,**

**SPEED CONTROL OF DC MOTOR**

**and**

**VHDL**

*Is a bonafide work and it is submitted to the P.V.P.P College of Engineering*

*(Affiliated to University Of Mumbai )*

Submitted By

Tejashree Deshmukh – 13

Snehal Dhuri - 14

Racheal Fernandes - 15

Submitted in the partial fulfillment of the requirement for Second Year Engineering *(Electronics)* during the academic year 2010-2011

Under the Guidance of

Prof. Shubanghi Prof. Priti Tyagi

*Guide Head .*

*Department of Electronics Engg. Department of Electronics Engg.*

*P.V.P.P College of Engg. P.V.P.P College of Engg.*



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Project Report

For

**LED LAMP FLASHER,**

**SPEED CONTROL OF DC MOTOR**

**and**

**VHDL**

Submitted in the partial fulfillment of the requirement for

**Second Year Engineering**

*(Electronics Engineering )*

**Subject : Electronic Workshop**

Submitted By

Tejashree Deshmukh – 13

Snehal Dhuri - 14

Racheal Fernandes - 15

Under the Guidance of

Prof. Shubanghi



*Index*

Pre –Project Preparations

* PCB and Soldering Techniques

Analog Project (**LED LAMP FLASHER**)

Digital Project (**SPEED CONTROL OF DC MOTOR using PWM**)

VHDL Project