# Project Proposal

Prepared for: ITSP
Prepared by: Mutushili
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# ABSTRACT

A table lamp, the brightness, direction of focus, etc. parameters of which can be controlled by gestures implemented through image processing.

## Timeline

| | |
|---|---|
| Learning MATLAB and image processing — 10 days | Designing mechanical — 10 days |
| Coding for Image Processing — 15 days | Making circuit days— 10 days |
| | Making the structure — 5 days |

Assembly — 15 days

## Learning from the Project

- Teamwork
- Image processing using MATLAB
- Circuit designing
- Mechanical aspects

## Budget

| Description | Expected Price |
|---|---|
| Night vision camera | ₹ 1,800 |
| Electronic circuit elements and other components (microcontrollers, RGB LEDs, Motors) | ₹ 1,200 |
| Material for fabrication | ₹ 500 |
| Miscellaneous | ₹ 500 |
| **Total** | **₹ 4,000** |