# Project proposal

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| --- | --- | --- | --- | --- |
| **Name of Candidates** | **A** | **B** | **C** | **D** |
| **PS Numbers** |  |  |  |  |
| **Name of Mentor – Delivery** | **Vijay** | | **PS No 998252** | |
| **Name of Mentor- GEA** | **YYYY** | | **PS No** | |
| **Project Period** | **From: November 2020 To: December 2020** | | | |
| **Date of Completion** |  | | | |

### **Project Title**

* Design of DPSS Laser system and Photon Counter

### **Project DETAILS:**

* **aim**:
* Design of DPSS Laser system with multiple output wavelength option with output power Upto 20 mW
* Design of photon counter to count the photons from a reflected source and provide analog output proportional to intensity of captured photons
* **Problem statement:**
* Consult customer and obtain detailed requirements.
* Come up with concept to build a Laser source with desired wavelengths
* Design the circuit on the paper after selecting relevant components like optics, laser emitter, photo detectors, etc
* Design a mechanism to capture the reflected photons from this Laser source and provide the captured intensity in form of analog output voltage
* **Objectives & Learning outcomes of the project**
* Application of Basic electronics and circuit design
* Concepts of Laser and optics
* Basics of opto electronics
* **Key Deliverables:**
* Requirements specifications
* Detailed design calculations and schematics
* Detailed working of the entire system
* Design limitations identified
* **Hardware & Software Recommendations**
* HW – 2
* **Weekly Progress (gantt chart)**



### **REVIEW**

* Weekly reviews to be conducted over the entire tenure of Project
* Each review comprises of a progress presentation from the candidates
* Mentor may demand daily / Weekly deliverables
* behavioral Traits would be evaluated along with project deliverable

### **Final Review and Recommendation:**

* Rating and Score against each parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Parameter** | **Rating** | | **Score/5** |
| **1** | **Approach towards the problem** |  | |  |
| **2** | **Analytical Ability and Results discussion** |  | |  |
| **3** | **Independent Work +Team Work** |  | |  |
| **4** | **Presentation Skills** |  | |  |
| **5** | **Project Deliverables** |  | |  |
| **6** | **Quality of Project Thesis** |  | |  |
| **7** | **Communication Skills** |  | |  |
| **8** | **Attitude** |  | |  |
| **9** | **Confidence** |  | |  |
| **10** | **Innovation** |  | |  |
|  | **Total** |  | | **/50** |
|  |  |  |  | |

A= Exceeds Expectations B= Meets Expectations C=Does not meet expectations

**Recommendation:**

**Progression: Yes No**