|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CRITERIA** | **5** | **4** | **3** | **2** | **1** | **0** |
| **1.The elements of the lab report is completed and stated clearly from problem to the safety lab rules.*** **Problem is stated in a question form and higher level of questioning.**
* **Hypothesis is stated correctly in an “if and then” statement and serve as a tentative answer to the problem.**
* **Materials used, sketch and design.**
* **Procedures are numbered and be stated in a simple, clear but complete sentences.**
* **Data and observation: Information should be correct and be in a complete sentences.**
* **Analysis should be stated clearly.**
* **Conclusion is simple, clear and well stated and must be in complete sentences.**
* **Summary, Reflection, Physics of Bridge and Safety Lab Rules are stated clearly and completely.**
 |  |  |  |  |  |  |
| **2. Pictures and illustrations are visible as evidences of actions.** |  |  |  |  |  |  |
| **3. Printed, computerized and submitted on time.** |  |  |  |  |  |  |
| **4. Spelling check-no errors and with a font of 12 and New Times Roman. Well organized and neatly prepared.** |  |  |  |  |  |  |
| **5. Authentic report. Not taken from any report or from other group or class.** |  |  |  |  |  |  |

 **A.DESIGN AND CONSTRUCTION ( 25 Points ) B. LABORATORY REPORT ( 25 Points)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CRITERIA** | **5** | **4** | **3** | **2** | **1** | **0** |
| **1.The bridge show unique and innovative solutions for handling loads.It has an accurate measurements as required and directed. The design is clearly shown through plans and schematics drawings. It can hold 2 kgs or 4.4 pounds or more.** |  |  |  |  |  |  |
| **2.The bridge possesses a symmetry and balance that are pleasant to the eye.** |  |  |  |  |  |  |
| **3. The bridge illustrates a good workmanship. The construction process is properly documents through photographic records.** |  |  |  |  |  |  |
| **4. The bridge shows evidence of attention of aesthetic details and gives off an image of strength and stability.** |  |  |  |  |  |  |
| **5. The bridge is structured in an organized, neatly and patterned manner. No evidence of excess glue in the bridge. No other materials used aside from the required materials.** |  |  |  |  |  |  |

 **C.POWERPOINT PRESENTATION (25 Points) D.PRESEENTATION ( 25 Points)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CRITERIA** | **1** | **2** | **3** | **4** |
| **1.Background** | **Background makes difficult to read.** | **Text is readable but background is very distracting.** | **Text is readable and is slightly distracting.** | **Background makes text easy to read.** |
| **2. Lay out** | **Poor use of spacing, headings and sub headings. Hard to read.** | **Lay out shows some structure .It may be a little hard to read.** | **Font formats have been carefully planned to enhance readability.** | **Pleasing to the eye. Appropriate use of headings and sub headings.** |
| **3. Content Accuracy** | **Content is confusing or contains more than one factual error.** | **The content is generally accurate, but one piece of information is clearly inaccurate.** | **Most of the content is accurate but there is one piece of information that might be inaccurate. All content throughout the presentation is accurate. There are no actual factual errors.** | **All content throughout the presentation is accurate. There are no factual errors.** |
| **4. Writing Mechanics** | **Presentation has many errors in grammar, capitalization and spelling.** | **Presentation has more than 2 errors in grammar, capitalization and spelling.** | **Presentation has 1-2 errors in grammar, capitalization and spelling.** | **Presentation has no errors in grammar, capitalization and spelling.** |
| **5. Use of graphics** | **Several graphics are unattractive and detract from the content of the presentation** | **All graphics are attractive but a few don’t seem to support the content of the presentation.** | **A few graphics are not attractive but all support the content of the presentation.** | **All graphics are attractive and support the content of the presentation.** |
| **6.Effectiveness** | **The presentation is lacking several steps.** | **There are two or more than missing steps in the presentation.**  | **The presentation is lacking one or two steps.** | **Project includes all the required steps.** |

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| **CRITERIA** | **5** | **4** | **3** | **2** | **1** | **0** |
| **1.All members of the group is present in the presentation.** |  |  |  |  |  |  |
| **2. Discussants talked loud and clear (doing the explanation and presentation well in front of the whole class. Discussants describe the design, selection process in a creative and professional manner.** |  |  |  |  |  |  |
| **3. Questions will be properly answered .Discussants describe the kinds of problems encountered, how was it resolved and emphasize the importance of the information.** |  |  |  |  |  |  |
| **4. Discussants should be professionally dressed.** |  |  |  |  |  |  |
| **5.Clear and complete explanation of all the elements of the challenge/project.** |  |  |  |  |  |  |

**D.PRESENTATION ( 25 Points)**