Design and Technology course at the M.3 level is intent on inducing students to work as individuals and in groups to bring their creativity and vision into effect through integration of science, art, and technology. Students are assigned a problem based project to design a BSL3 facility using Microsoft Visio. The students’ role is to research methods through medical sciences search engines to explore and deduct the essential components based on logic and reasoning necessary in created BSL facility and presenting in a PowerPoint format containing the architectural design of the facility.

Evaluation criteria:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Project: BSL3 Design 60 points** |  |
| **Attend/Conduct**  | **Report/Design & Technology** | **Research** | **PowerPoint** | **Visio Design** | **Finals** |
| **10** | **10** | **20** | **20** | **20** | **20** |

Students are evaluated on multiple factor such as their attendance and conduct during each class session. They are assigned a pilot project using Microsoft Visio mind map format on what they consider this course consists of in order to encourage student to acquire information on where Design and Technology is taught in other countries and what their curriculum consists of. The instructor reviews group work on a weekly basis and provide feedback in areas of the research lacking in details in order to guide students to perform more complete online research. The main project is worth 60 points in which students are given points based on their research, Microsoft Visio design of the BSL3 facility, and thoroughness of PowerPoint presentation in covering essential details. By the end of each group’s presentation, students should have knowledge of the subject matter and will be given a 20 points assessment on learned material.