Project - Room Measurements

Welcome to the Project. This activity is worth 20% of the NBC1101 unit.

The task to be completed in this project is; choose either your bathroom or kitchen to be measured and prepared for renovation at home. Once chosen, you will need to take measurements of the floor and elevation (i.e. wall) spaces. Once measurements are formed, electronic designs need to be produced and finally calculations of floor and wall space will be required for tiling and painting (i.e. Total Surface Area).

Part 1: Measurements, Plans and Design

Measurements

Complete measurements of the room chosen is required. These include floor and all elevations. The measurements should also include the dimensions of all fixtures and fittings. These could include but not limited to: Shower, mirrors, toilet, vanity, etc for a bathroom. In the kitchen, dimensions for cupboards, stove tops, oven, splashbacks, etc are required.

Design

The submission will require a presentation of the room design, along with the measurements and dimensions

determined above. The presentation of the design will a scaled drawing (using software like Revit, AutoCAD, etc and be in an electronic format. **NO HANDWRITING**) of the floor and elevations, along with all the fixtures and fittings.

Calculations

Mathematical calculations must be included to show the following quantities.

- The total surface area of wall and elevation space to be painted.
- The area of floor, walls, splashbacks and any other space that needs be carpeted, tiled and/or decorated.
- Other calculations may include the space taken up by existing structural frames, pylons and other fixtures and fittings. This will depend on the room.

Part 2: Report

Report

The report should have the following sections:

1. Introduction

A paragraph that explains what is about to be presented.

2. Photos of the Bathroom or Kitchen

A set of Photos that show the floor and elevations of the room chosen. Make sure the photos show all the details that will be shown in the electronic design. Also, scale the photos

that they are not too small and not too large.

3. Electronic Design

Using an appropriate software package, present the designs in this section.

4. Calculations

Using MS Equation or an equivalent mathematics editor, present the mathematical calculations for your room. Strictly, **NO HANDWRITING**.

5. Conclusion

A paragraph summing up what was presented in the report.