

INDIVIDUAL ASSIGNMENT #3

CE RES421 Research
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DUE: 18 NOVEMBER 2019. USE A SHORT BOND PAPER (STAPLE ONLY) AND COLORED PRINTING. FOLLOW THE INSTRUCTIONS CAREFULLY. SIMILAR ANSWERS WILL GET ZERO POINTS.

Problem 1. The data presented in the Table 1 are results of the experiment on Milkfish Offal Burger, Goatfish Offal Burger, and Siganid Offal Burger. Using MS Excel, illustrate and prepare **three (3) different graphs** using the data presented in different acceptable colors. Indicate proper labels and legends in the graphs. **You assess the results and choose the graph that best suits to the data presented and explain why the graph is the best one.**

Table 1. Acceptability of the Quality Attributes of Different Offal Burgers

| Quality Attributes | Fish Offal Burger | | |
|-----------------------|-------------------|----------|---------|
| | Milkfish | Goatfish | Siganid |
| Color | 8.0 | 8.3 | 6.4 |
| Odor | 8.1 | 7.4 | 6.2 |
| Flavor | 8.6 | 8.0 | 6.0 |
| Texture | 8.2 | 7.6 | 6.3 |
| General Acceptability | 8.4 | 7.8 | 6.3 |
| AVERAGE | 8.26 | 7.82 | 6.24 |

Problem 2. Table 2 indicates the summary of number of thesis submitted to the College of Engineering and Technology (CET) as of July 2016. . Using MS Excel, illustrate and prepare **three (3) different graphs** using the data presented. Indicate proper labels and legends in the graphs. Use colors to differentiate the attributes. **You assess the results and choose the graph that best suits to the data presented. Explain why the graph is the best one. In addition, create another graph for the best graph which will be presented in texture patterns to differentiate the attributes as shown below. Note that the examples presented below are intended for Problem 2 only.**

Table 2. Number of Thesis at the College of Engineering and Technology and Information Technology

| Department/Program | Number of Thesis |
|-------------------------------|------------------|
| Civil Engineering (CE) | 59 |
| Mechanical Engineering (ME) | 24 |
| Electrical Engineering (EE) | 26 |
| Agricultural Engineering (AE) | 7 |
| Information Technology (IT) | 15 |
| TOTAL | 121 |

(Example graphs for Problem 2)

