

UNIVERSITY OF TECHNOLOGY, JAMAICA

FACULTY OF SCIENCE AND SPORT

CARIBBEAN SCHOOL OF SPORT SCIENCES

IN COLLABORATION WITH GC FOSTER

PROGRAMME: MSc PHYSICAL EDUCATION & SPORT

MODULE: APPLIED STATISTICS

SEMESTER 2 AY 2022-23

MODULE CODE: MSPE5004

ASSESSMENT #1

DUE DATE: April 30th, 2023

INSTRUCTIONS:

- (a) Send your completed assignment to seafis@gmail.com and iafis@utech.edu.jm**
 - (b) Use the provided submission template**
 - (c) Use either Microsoft Excel or the Statistical Package for Social Science (SPSS) for the ANALYSIS**
 - (d) Use the data provided for this Assignment**
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This scenario involves EIGHT (8) variables on the performance of FIFTY (50) graduate students from a public University in the United States of America (USA). The variables in the data set are:

- Category
- Gender
- Overall Grade Point Average (GPA)
- Major Area Grade Point Average (areagpa)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Quantitative (grequant)
- Graduate Record Examination Score on Verbal (greverb)

The data data set is provided in Microsoft Excel and should be used for the following tasks:

Task #1

Prepare a Frequency Table and Pie Chart to illustrate the **category** and **gender** variables. **(4mks)**

Task #2

Prepare a Table containing descriptive statistics (mean & standard deviation) for the variables below:

- Overall Grade Point Average (GPA)
- Major Area Grade Point Average (areagpa)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Quantitative (grequant)
- Graduate Record Examination Score on Verbal (greverb)

(6mks)

Task #3

Prepare a Table containing descriptive statistics (mean & standard deviation) for **female students only** for the variables below:

- Overall Grade Point Average (GPA)
- Major Area Grade Point Average (areagpa)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Quantitative (grequant)
- Graduate Record Examination Score on Verbal (greverb)

(6mks)

Task #4

Prepare a Table containing descriptive statistics (mean & standard deviation) for **male students only** for the variables below:

- Overall Grade Point Average (GPA)
- Major Area Grade Point Average (areagpa)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Quantitative (grequant)
- Graduate Record Examination Score on Verbal (greverb)

(6mks)

Task #5

Conduct a Bivariate Pearson Product Moment Correlation analysis (r) on the variables below and prepare a Table to illustrate the values of the correlation:

- Overall Grade Point Average (GPA)
- Major Area Grade Point Average (areagpa)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Speciality (grearea)
- Graduate Record Examination Score on Quantitative (grequant)
- Graduate Record Examination Score on Verbal (greverb)

(6mks)

Task #6

Prepare a brief report explaining all the Tables in Tasks 1 to 5.

(10mks)