

SCHOOL OF COMPUTING AND ENGINEERING SCIENCES ASSIGNMENT BACHELOR OF SCIENCE IN INFORMATICS AND COMPUTER SCIENCE ICS 2106: PROBABILITY AND STATISTICS 1

INSTRUCTIONS:

Use R, python, Excel etc to genetare the plots.

T OT AL (20 Marks)

Data is provided in Data.xlsx, showing the number of hours spent coding and the number of coding bugs by 50 students

- i. Plot Hours Coding (x axis) vs Num Bugs(y axis).
- ii. Estimate Pearson's correlation coefficient r.
- iii Develop a regression equation, $Num\ Bugs(y) = a + bHours\ Coding(x)$. Use the model to predict bugs for 20 hours of coding.
- iv. Develop a frequency distribution table of the the number of bugs
- v. Plot a histogram of the Num Bugs.
- vi. Overlay a normal curve on the histogram (using sample mean and standard deviation). 1