

ST131 – Introduction to Statistics

Coordinator: Dr MGM Khan

RSD Marking Rubrics for Assignment 1

[This assignment involves identifying appropriate task for statistical analysis using appropriate statistical techniques and Excel or other software. A set of research questions and a dataset are given. Students need to interpret the results and make useful decisions based on the analysis]

Facet of Research	Element of	No Evidence	Below Benchmark Not present, incomplete or inaccurate	Benchmark Complete but not fully accurate, comprehensive or insightful	Above Benchmark Complete, accurate, comprehensive, and insightful/ innovative
<i>Embark and clarify</i>	-identifying the appropriate task to be done. -formulating problem/task in statistical terms.	<input type="checkbox"/>	<input type="checkbox"/> Incorrectly or inappropriately identified variables, tasks or method.	<input type="checkbox"/> Correctly identified but incomplete or minor errors.	<input type="checkbox"/> Correctly identified all variables, tasks or method.
<i>Find and Generate</i>	calculating statistics manually or using Excel/software	<input type="checkbox"/>	<input type="checkbox"/> Partially correct. <input type="checkbox"/> No working shown.	<input type="checkbox"/> Following correct procedure but calculation or method incorrect.	<input type="checkbox"/> Following correct procedure <input type="checkbox"/> All calculation correct.
<i>Evaluate and Reflect</i>	-evaluate calculated statistics	<input type="checkbox"/>	<input type="checkbox"/> Only answer but no proper justification provided for evaluating calculated statistics.	<input type="checkbox"/> Incorrect/incomplete answer but correct justification.	<input type="checkbox"/> Most appropriate statistics is chosen for given task with proper justification.
<i>Organize and Manage</i>	-produce appropriate summary tables, cross-tables, charts.	<input type="checkbox"/>	<input type="checkbox"/> Produced appropriate tables <input type="checkbox"/> Drawn graph is inappropriate. <input type="checkbox"/> Axis title, label etc. missing or incorrect	<input type="checkbox"/> Produced appropriate tables <input type="checkbox"/> Drawn graph type is appropriate but drawn incorrectly. OR <input type="checkbox"/> Drawn graph type is inappropriate but drawn correctly with correct axis title, labels, etc.	<input type="checkbox"/> Produced appropriate tables <input type="checkbox"/> Drawn graph type is appropriate. <input type="checkbox"/> correctly drawn with correct axis title, labels etc.

Analyze and Synthesize	-analyse calculated statistics. -interpret.	<input type="checkbox"/>	<input type="checkbox"/> Incorrect analysis but correct interpretation. OR <input type="checkbox"/> Correct analysis but incorrect interpretation. <input type="checkbox"/> Also key statistical terms are missing.	<input type="checkbox"/> Analysis is correct but the interpretation is not specific to task. <input type="checkbox"/> Interpretation is correct in statistical terms but not fully user friendly. <input type="checkbox"/> Some statistical terms are missing.	<input type="checkbox"/> Well comparative analysis with justifications and use of key statistical terms. <input type="checkbox"/> Interpretations are expressed correctly.
Communicate and Apply Ethically	-discuss implications of analysis -state recommendations from analysis - provide references	<input type="checkbox"/>	<input type="checkbox"/> Implications or recommendations only stated correctly <input type="checkbox"/> Justification or further elaboration missing. <input type="checkbox"/> References or other sources are not provided	<input type="checkbox"/> Implications and recommendations only stated correctly <input type="checkbox"/> Justification or further elaboration missing. <input type="checkbox"/> References or other sources are not provided	<input type="checkbox"/> Implications and recommendations are based on statistical analysis. <input type="checkbox"/> References or other sources provided.

Copyright © The University of the South Pacific, 2014. Rubric designed by course coordinator Dr MGM Khan. Available under Creative Commons Attribution NonCommercial-ShareAlike 3.0 Unported License. Reference: Willison, J. and O'Regan, K., 2006 and 2013. *The Research Skills Development Framework*.