Probability and Statistical Inference 2020/2021

Digital Portfolio Requirements

REQUIREMENT	PREPARE	EXPLORE
Knowledge and understanding	 Populations and samples Key issues related to using a sample for the purposes of statistical analysis 	 Statistical measures Common issues which could impact a statistical analysis
Ability to apply knowledge and understanding	 Choose an appropriate sample for the purposes of a statistical analysis Frame a research question so that it is suitable to use a statistical analysis to investigate State hypotheses related to research questions 	 Select/create appropriate measures and justify your choices Inspect data for common issues which could impact a statistical analysis Select appropriate tests to test hypotheses Interpret test findings and draw conclusions
Ability to Communicate	 Appropriate details about a population and sample A research question and hypotheses 	 Your understanding of a dataset using appropriate statistics and visualisations The implications of your inspection for a proposed statistical analysis

Probability and Statistical Inference 2020/2021

Digital Portfolio Requirements

REQUIREMENT	ANALYSE	MODEL
Knowledge and understanding	 A range of statistical tests and their use The implications of test outcomes for a statistical analysis 	 Assumptions of the technique, when/how to use the technique Common issues and challenges that may occur when using the technique and how to address these The statistics, visualisations and other information needed to be able to interpret the outcomes of using the technique
Ability to apply knowledge and understanding	 Select appropriate statistical tests to test hypotheses with cognisance of the outcomes of a data inspection Conduct appropriate statistical tests to test hypotheses Interpret test findings and draw conclusions for a statistical analysis 	 Apply the technique as part of a statistical analysis taking cognisance of the outcomes of data exploration and analysis Address the common issues and challenges that may occur when using the technique Interpret the findings to draw conclusions for proposed hypotheses
Ability to Communicate	 Reasons for test selection, interpretation, and conclusions using appropriate statistics and language 	 The outcomes of the application of the technique using appropriate statistics, language and visualisation Your interpretation of the outcomes of applying the technique for proposed hypotheses The implications of the application of the technique for your research question

Probability and Statistical Inference 2020/2021

Digital Portfolio Requirements

REQUIREMENT	REPORT	USING R
Apply knowledge and understanding	 Analyse and present the findings gained from your statistical analysis in a clear and accurate way To a standard expected of postgraduate level academic work You are required to adopt the APA guidelines for reporting statistics and for citation https://apastyle.apa.org/ and adhere to APA conventions (this style guide should provide you with the information you need http://spss.allenandunwin.com.s3-website-ap-southeast-2.amazonaws.com/Files/APAStyle.pdf) Using appropriate statistics, visualisations and language. 	 Inspect your dataset, create any additional measures, generate descriptive statistics and