**R Portfolio Briefing**

The aim of this R Portfolio is to provide an opportunity to explore some areas of statistical models and methods that can be applied using R in the workplace. Being able to clearly explain the results of your statistical analysis to a stakeholder with limited statistical knowledge is an important skill that will be useful in the workplace. The R Portfolio is worth 25% of the overall mark for Statistics and Probability Modelling Assessment (ZDAT2002).

You will be assessed through the work you have completed in the portfolio (60%) and your explanation to a stakeholder through a viva (40%). The viva will be approximately **20 minutes (±5 mins)** in length. You should assume that the stakeholder has limited statistical knowledge. The portfolio should demonstrate your statistical knowledge and your competency in using R and interpreting the R output. The portfolio should cover an application or applications in your (or another) workplace and its implementation in R. You may use the template provided on the Moodle page for your portfolio. You may use your portfolio to support you with the viva with the stakeholder.

The recommended time to spend on the R portfolio is 10 hours.

The deadline for submission of the portfolio is Wednesday 8th May 2024, 12:00pm.

There will be an opportunity for you to receive some feedback on the first part of your R Portfolio. The deadline for submission of the first draft is Wednesday 6th March 2024, 12:00pm.

The viva will take place between Wednesday 8th May 2024 and Friday 31st May 2024. Communication will be sent nearer the time to arrange a suitable time for a viva.

**Format of portfolio**

You should ensure that the portfolio covers:

* An application of a method introduced in Statistical Models and Methods that meets the Learning Outcome “Can apply methods concerning estimation of parameters in standard statistical models; in particular the method of moments and the maximum likelihood method.”
* An application of a method introduced in Statistical Models and Methods that meets the Learning Outcome “Can perform statistical hypotheses tests using data from studies (such as t and F-tests, comparison of models and parameter values).”
* An application of a method introduced in Statistical Models and Methods that meets the Learning Outcome “Can apply methods for interval estimation; in particular, exact and approximate confidence intervals based on asymptotic theory.”
* An application of a method introduced in Statistical Models and Methods that meets the Learning Outcome “Can apply methods for analysing categorical data.”

**Assessment**

The marking sheet that will be used in the assessment of your portfolio and viva can be found on the Moodle page.

* The portfolio will be worth **60%** of the overall mark for this component.
* The viva will be worth **40%** of the overall mark.