

MA20277 2022 - Instructions for Coursework 2

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Set: 15:30 on Friday December 2

Due: 17:00 on Wednesday December 14

Estimated Time: This assignment should take you roughly twice the time it takes you to complete the homework questions on a problem sheet.

Submission: Submission is via the unit's Moodle page only. You must provide your R Markdown file and a PDF generated from it. Submissions up to five working days late (without a DoS-approved extension) will receive a maximum mark of 40% and after that will be 0%.

Instructions

1. **This is an individual assignment, and you should not discuss any elements of the course-work with anyone other than the lecturer or your tutor.**
2. You must use the provided RMarkdown file for this coursework and knit it to PDF.
3. There is a page limit of 12 pages. Your PDF should include all the R code, graphics and text. The font size, line spacing and margins should not be changed.
4. For each question part, your answer may include up to 2 data graphics - any further plots are ignored and you won't receive marks for them. The general rule is that each call of `ggplot()` counts as one data graphic (the same applies to `plot()`); plots generated by `facet_wrap()` count as one data graphic.
5. You are allowed to use any R packages considered in the lectures / problem sheets or mentioned on the cheat sheets on Moodle. Should you load any additional R packages, you will receive a mark of 0 for the question parts they are used in.
6. Please do not remove the question text from the R Markdown file in order to facilitate the marking process.

Marking

This coursework will be marked out of 50 and will count 50% towards your mark for the unit. There are three questions: Question 1 is worth 9 marks, Question 2 is worth 9 marks and Question 3 is worth 28 marks. Questions are structured into parts and each part is worth between 3 and 7 marks.

The remaining 4 marks are set aside for presentation. Everyone will start with the full 4 marks for presentation, which will be reduced until 0 according to the following (not necessarily exhaustive) principles:

| Issue | Penalty |
|--|-------------|
| Knitting to Word or HTML | -4 |
| Error messages when running the R code | -3 |
| Excessive R output | -2 |
| No axis label | -2 |
| Missing R code (including R code running off the page) | -1 at least |
| Poor labels | -1 |

Getting help

The first 20 minutes in the LOIL session on Monday December 5 are set aside for Q&A regarding this coursework.

There won't be a problem sheet for the week December 5 - December 9. Instead you will have the opportunity to ask your tutor questions - there are however restrictions on the type of questions that will be answered.

Questions can also be sent to the lecturer via email, or posted on the dedicated Padlet board. Any questions sent via email will be posted on the Padlet board. Please try to formulate your questions such that you don't give away your approach. **Questions that are deemed to break this instruction will not be answered and removed from the Padlet board.**