

## MA304 Final Project – Marking Scheme

| Marking scheme   | Mark | Overall Mark scale   |
|--|------|--|
| <b><u>Section 1: Main content (40 marks)</u></b> <ul style="list-style-type: none"> <li>Task: To perform a full data visualisation on the policing dataset from Dallas, Texas in 2016, using techniques taught in MA304.</li> <li>At the minimum, your project must include the following: <ul style="list-style-type: none"> <li>- Table/Two-way table</li> <li>- Bar plot/Pie chart/Dot plot</li> <li>- Histogram/Density plot</li> <li>- Box plot/Violin plot/Sina plot</li> <li>- Scatter plot/Pair plot</li> <li>- Correlation analysis</li> <li>- Time series plot</li> <li>- The use of smoothing to illustrate pattern/trend</li> <li>- Map or Leaflet</li> </ul> </li> <li>For level 7 students, you are to include also advanced graphics such as interactive plots, from your PGT extra lectures in weeks 24 &amp; 25.</li> </ul> | /40  | <u>Level 6</u><br><br>80-100: Excellent<br><br>70-79: Distinction<br><br>60-69: Merit<br><br>40-59: Pass<br><br>0-39: Fail<br><br><u>Level 7</u><br><br>80-100: Excellent<br><br>70-79: Distinction<br><br>60-69: Merit<br><br>50-59: Pass<br><br>0-49: Fail |
| <b><u>Section 2: Visual appearance (20 marks)</u></b> <ul style="list-style-type: none"> <li>Displays good use of aesthetics, appropriate graphical elements etc.</li> <li>Proper labels on the axes, informative titles etc.</li> <li>Overall, figures/plots presented should be visually appealing and purposeful.</li> </ul>  | /20  |  |
| <b><u>Section 3: Interpretation and Creativity (30 marks)</u></b> <ul style="list-style-type: none"> <li>Explore the data (in your own creative ways) and present a “story” in your final report. This should be closely linked to your main content (Section 1) and the “flow” of your project.</li> <li>The key to score well in this component is to find and present interesting features in the data. These can be descriptive, based on messages underlying the data, or your own analytical perspective, your choice.</li> <li>Also displays good writing and exposition skills, English, and grammar.</li> </ul>   | /30  |  |
| <b><u>Section 4: R code functionality and R Markdown (10 marks)</u></b> <ul style="list-style-type: none"> <li>Your code should be well organised.</li> <li>We will check if they successfully compile.</li> </ul>   | /10  |  |
| <b><u>Total</u></b>  | /100 |  |

**Further Marking Criteria:**

1. Your **final report will be in HTML format generated using R Markdown, embedding all the R code** used to produce relevant plots, results, analysis etc.
2. This assessment **counts towards 100% of MA304**. Please ensure you submit **both your final report (in HTML) and the source file (".Rmd" file)** to [FASER](#) by the **deadline 26th April 2023 12 noon**.
3. Project length:
  - Your work should not exceed 5,000 words in total.
  - Your work should not exceed 50 pages. [As a guidance, compile your ".Rmd" file to generate a PDF output, and this should be less than 50 pages.]
4. Every plot/figure/output must be followed by explanations/interpretations. **DO NOT** include plot that you do not intend to interpret.
5. Avoid repetitions, i.e. if plots A and B are similar, do not reproduce (e.g. copy-pasting) the same interpretation each time. Feel free to use alternative strategies, e.g. produce a common interpretation and comment on the similarities.
6. Your project should be written in essay mode. **DO NOT** write the entire project in bullet points.
7. Please include in your reference list any source(s) you have used from the internet. Your work will be checked for plagiarism. [If you use materials from our lecture notes/labs, you do not need to cite.]