

BAN403

Simulation of Business Processes

Spring 2022

Project 2 (100 points total)

Consider the Case—Miller Pain Treatment Center that comes attached. Dr Keith Weems is requesting an analysis of the different scenarios discussed to convince his colleagues that his proposed ideas are worth trying. He has decided to hire you to develop the research and provide recommendations using discrete-event simulation models to produce the arguments. Read the case carefully, and use the data provided to build the models you consider necessary for the analysis.

Your final submission must contain the following:

- Introduction: must clearly explain your understanding of the problem, assumptions, goals, and desired outputs. (20 pts)
- Input data analysis. Must come supported with the files used for the analysis, python, excel or R files. (20 pts)
- Simulation models, cfg files. (25 pts)
- Output data analysis. Must come supported with the files used for the analysis, python, excel or R files. (20 pts)
- Conclusions and recommendations (15 pts)

Note: The main report must be a pdf file named [group]-proj2-BAN403.pdf. All the attachments must come in a zip file and have the prefix att-, for example "[group]-att-proj2.zip". The pdf report must be limited to a maximum of 10 pages. Failing to comply will be penalized. The page limit does not include the front page and references. Appendices are allowed but keep in mind that does come as support; the first ten pages must be clear and self-contained. In other words, the ten pages must be enough to understand your work and support your conclusions. The font size must be at least 12 pt and the margins should be max 2.5 cm. Use at least 1.25 line spacing, this document is an example of how that line spacing looks.