

**School of Business and Law**

**University of East London**

# Assessment Guide

# Summary

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| ***Individual assessment*** | *Weighting: 50%* |
| Maximum word count: 2000 | Submission deadline:  *17:00, 28th April 2022* |

**Submission procedure:**

The individual reports should be submitted electronically through the turnitin system by the deadline date.

**Return of feedback and marked work:**

Feedbacks of the reports in seminars and the individual reports will be marked in three weeks.

# Introduction

# Individual Assignment— Business Statistics and Data Analysis

# Details of the task

**Background:**

You are thinking of investing in the stock market, you know that macroeconomic factors can impact the stock prices and you are particularly interested to find out if there is a significant relationship between stock prices and the interest rate;, and stock prices and the exchange rate, so that you can predict the stock prices based on the movements of these macroeconomic variables.

Use the provided data set, perform appropriate analysis and write a report of 2000 words based on your analysis. To write your report and justify the findings, you are encouraged to refer to 3 to 5 related academic journal articles as well as text books.

Your report should contain the following:

* Abstract (No more than 50 words) (5 Marks)
* Introduction (10 Marks)
* Main body, which should also be organised under appropriate headings (75Marks)
* Conclusion (5 Marks)
* References (5 Marks)

Total:100 Marks

**In the main body of the report you are required to**

1. **Report the descriptive statistics (summary statistics) for each variable (stock price, interest rate, and exchange rate).**

**(15 Marks)**

1. **Plot time series graph for each of the variables (stock price, interest rate, and exchange rate) and provide a summary of the movement of the variables in the period of the study.**

**(15 Marks)**

1. **Plot scatter graphs of** **stock price against selected macroeconomic variables (****interest rate, and exchange rate), explain the graphs.**

**(10 Marks)**

1. **Calculate the correlation between stock price and the selected macroeconomic variables and report your findings. Justify your results with the scatter graphs in part c.**

**(15 Marks)**

1. **Calculate the equation of the regression line between stock price and interest rate, and stock price and exchange rate and interpret regression analysis results (P-Values & Coefficients); which variable seems to be a better predictor for the stock prices.**

**(20 Marks)**

**\*\*\*Note: In the provided data set you have below monthly time series data for the period of 28/02/2017 to 31/01/2022:**

**Stock prices: FTSE 250 Index (MCX Index)**

**Interest rate :3-month LIBOR UK (BP0003M Index)**

**Exchange rate: GBP/USD Currency Exchange Rate (GBP/USD Currency)**

**Student Assignment Guidelines**

In your report, you should demonstrate your knowledge of and ability to explain and apply statistics theory. You must justify any conclusion you reach on the basis of evidence provided by you by reference to, or quotation from, the course notes, textbooks, other course readings, or any other source you choose to use. As long as your report gives a good justification and demonstrate your reasoning ability and your knowledge, you can obtain a good grade.

### Presentation

Your work should be word processed in accordance with the following:

* Font style, Lucida Sans, font size 12
* 1.5 line spacing.
* The page orientation should be ‘portrait’
* Margins on both sides of the page should be no less than 2.5 cm
* Pages should be numbered
* Your name should not appear on the script.
* Your student number should be included on every page.

**Skills Advice**

Refer to your material provided in your skills modules to make sure that you have conformed to academic conventions. Pay particular attention to:

* Your introduction,
* Your conclusion,
* The use of headings and/or signpost words
* Paragraph structure

**Referencing**

The university expects students to use Harvard referencing as specified in the book Cite them Right.

• Refer to [Referencing Information | University of East London (uel.ac.uk)](https://www.uel.ac.uk/study/student-life/library-archives-learning-services/info-skills-guides/referencing-information) for further advice and a link to an online version of Cite them Right

• You should be careful to include citations within your work as well as a reference list at the end.

**Word Count**

Your word count should not include your title page, table of contents, reference list or appendices. You should provide your word count at the end of your report. Exceeding the word count by more than 10% will result in a penalty of 10% of your marks for your work.

If your work is significantly shorter, then you will probably have failed to provide the level of detail required.

### Submission to Turnitin of Work Submitted for Assessment

Our policy on the use of Turnitin recognises the educational desirability that all of our students should enjoy the opportunity to self-submit their work to Turnitin (before submitting for assessment). We also recognise that Turnitin Originality Reports will sometimes assist in the identification of plagiarised work submitted for assessment.

Work that is submitted to Turnitin generates a Turnitin originality report, showing which parts of it have been reproduced from which sources. The system compares submissions to material that is to be found: on the world-wide web; in its database of previous submissions; and in its growing number of databases of published articles. You should not assume that a Turnitin originality report with a low similarity index is evidence that the piece of work concerned is free from plagiarism.

Our policy provides that a Module Leader may decide, in accordance with the policy of RDBS, that all student submissions for a particular component of assessment should be submitted to Turnitin, provided that the relevant Module Guide includes a notice to that effect.

Notice is hereby given that all submissions of reports for this Module must be submitted to Turnitin. Detailed guidance on how to submit your work to Turnitin will be made available on this Module’s UEL Plus site.

**If you fail to submit your report to Turnitin, in accordance with the guidance on the UEL Plus site, you will be awarded a mark of 0 for the component.**

### Submission

The material that you submit to Turnitin will be marked. The deadline applies so you are advised not to submit after 17:00, because it could take some time for your submission to upload, and the delay could cause the work to be received after 17:00.

Please be aware that the Turnitin site will advise you that late submissions are accepted. This is only for the purposes of allowing students who are claiming extenuation to submit their work.

Please read the material in the submission folder and make sure that you attach the feedback sheet as requested and save the document using the format for the name of the document as specified.

**Late Submissions Using Turnitin**

UEL has permitted students to be able to submit their coursework up to 24 hours after the deadline. Assessments that are submitted up to 24 hours late are still marked, but with a 5% deduction. However, you have to ***be very careful when you are submitting your assessment***. If you submit your work twice, once using the original deadline link and then again using the late submission link on Turnitin, your assignment will be graded as late with the 5% deduction.

### Assessment criteria

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| **Assessment criteria** | **Maximum mark** |
| **Abstract (No more than 50 words)**  summarising the contents of the report briefly and comprehensively | **5** |
| **Introduction**  Providing evidence of background reading (Comprehensively researched) | **10** |
| **Main body: Appropriate depth of analysis including**   1. **Descriptive statistics (15 Marks)** 2. **Time series graph (15 Marks)** 3. **Scatter graphs (10 Marks)** 4. **Correlation analysis (15 Marks)** 5. **Regression analysis (20 Marks)**   Demonstrating detailed and concise, coherent and formal structure, focused and fluent based on the conducted analysis | **75** |
| **Conclusion**  Briefly restating the main points including a final thought or reflection to highlight the significance of the topic | **5** |
| **References**  Appropriate application of Harvard referencing | **5** |
| **Total mark** | **100** |

**Extenuating Circumstances**

Extenuating Circumstances are circumstances which:

* impair your examination performance in assessment or reassessment, or
* prevent you from attending for assessment or reassessment, or
* prevent you from submitting assessed or reassessed work by the scheduled date

If you need to apply for extenuating circumstances please find the relevant information at:

[Extenuation Procedures | University of East London (uel.ac.uk)](https://www.uel.ac.uk/about/governance/extenuation-procedures)

**Student Appeals**

Students who wish to appeal against Field and ward Boards decisions can find the relevant information at:

<http://www.uel.ac.uk/qa/qualityass_appeals.htm>