University of Essex

Online

Research Methods and Professional Practice: Seminar: 4

Karen Outram

University of Essex

Online

Recap up to unit 6:

- By now all formatives that need to be completed and embedded in your e-portfolio up to unit 6 should have been added to your e-portfolio, [with tutor feedback added where relevant]
- I have recapped over the past three seminars what needs to be in your e-portfolio up to week 6, but it is also each students responsibility to keep on top of this, [and not the tutors]
- Where students have engaged in formative I have given feedback
- For example: Collaborative formative 1, I gave generic feedback which each student can then add to their e-portfolio

University of Essex

Online

Recap up to unit 6:

- **For the mandatory Literature Review, all students who submitted their Literature Review got specific 1:1 feedback emailed to them**
- **For those students who did not submit I gave a generic feedback in announcements with some 'umbrella' comments**
- **For Collaborative formative 2, [occurring in units 7,8 and 9], I will also give generic feedback in forums, which can then be added by students to their e-portfolios**
- **Your first mandatory summative is due the 25th of April – each student will get written/graded feedback for that, [and any other summative]**
- **As discussed you should be adding any relevant formative excerpts to your e-portfolio as you go along, with tutor feedback as appropriate**

University of Essex

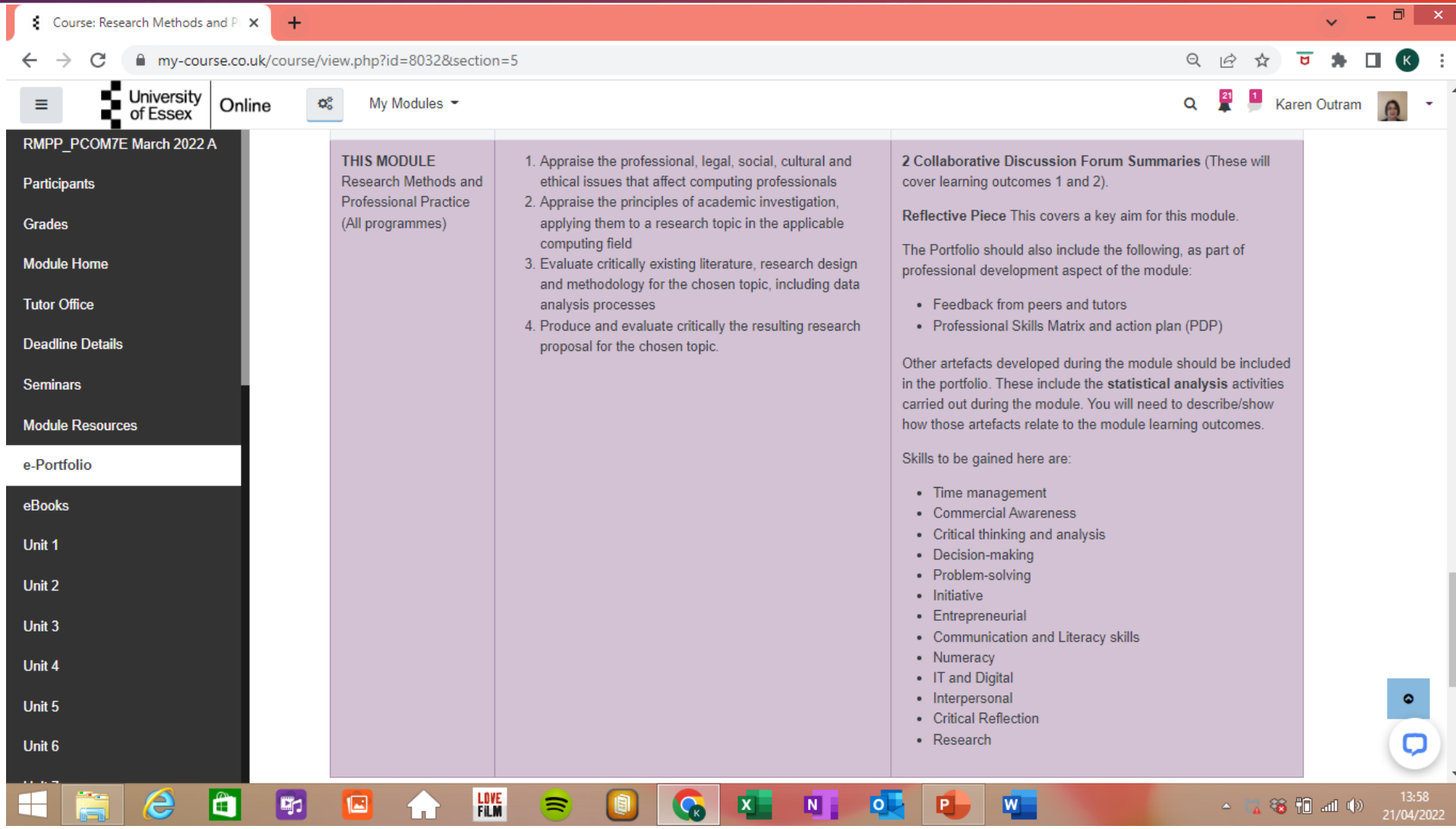
Online

Recap up to unit 6:

- To check what student e-portfolio content requirement is, please check on your online hub in:
- e-portfolio [this is an online header in your online menu]:
- When you click on ‘e-portfolio’ a page will be revealed, scroll to the bottom, and there will be a shaded section that states: ‘This module’, [see image on next slide after this slide here]

University of Essex Online

Recap up to unit 6:

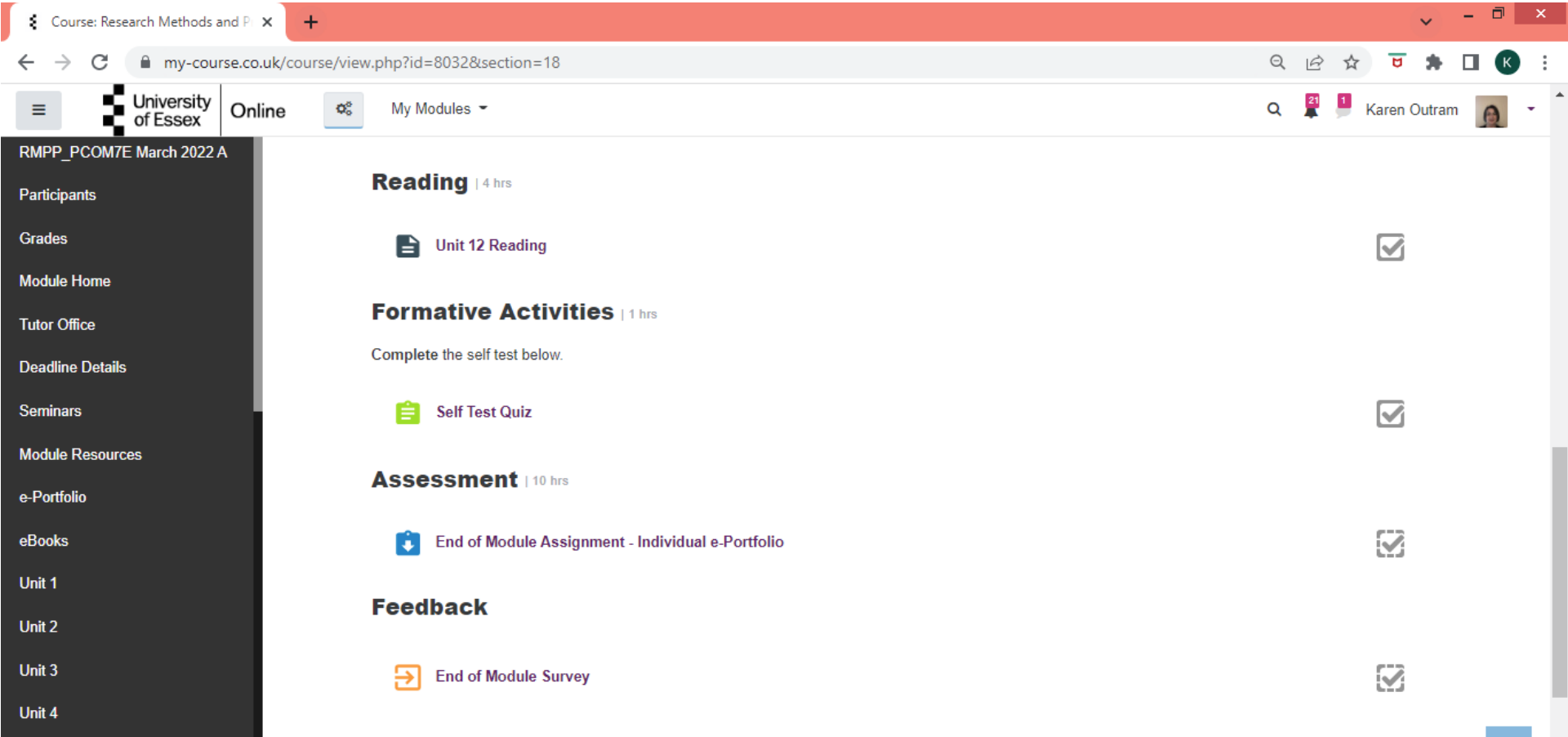


University of Essex

Online

Recap up to unit 6:

- **Additionally, the e-portfolio full academic requirement is contained in Unit 12:**



University of Essex

Online

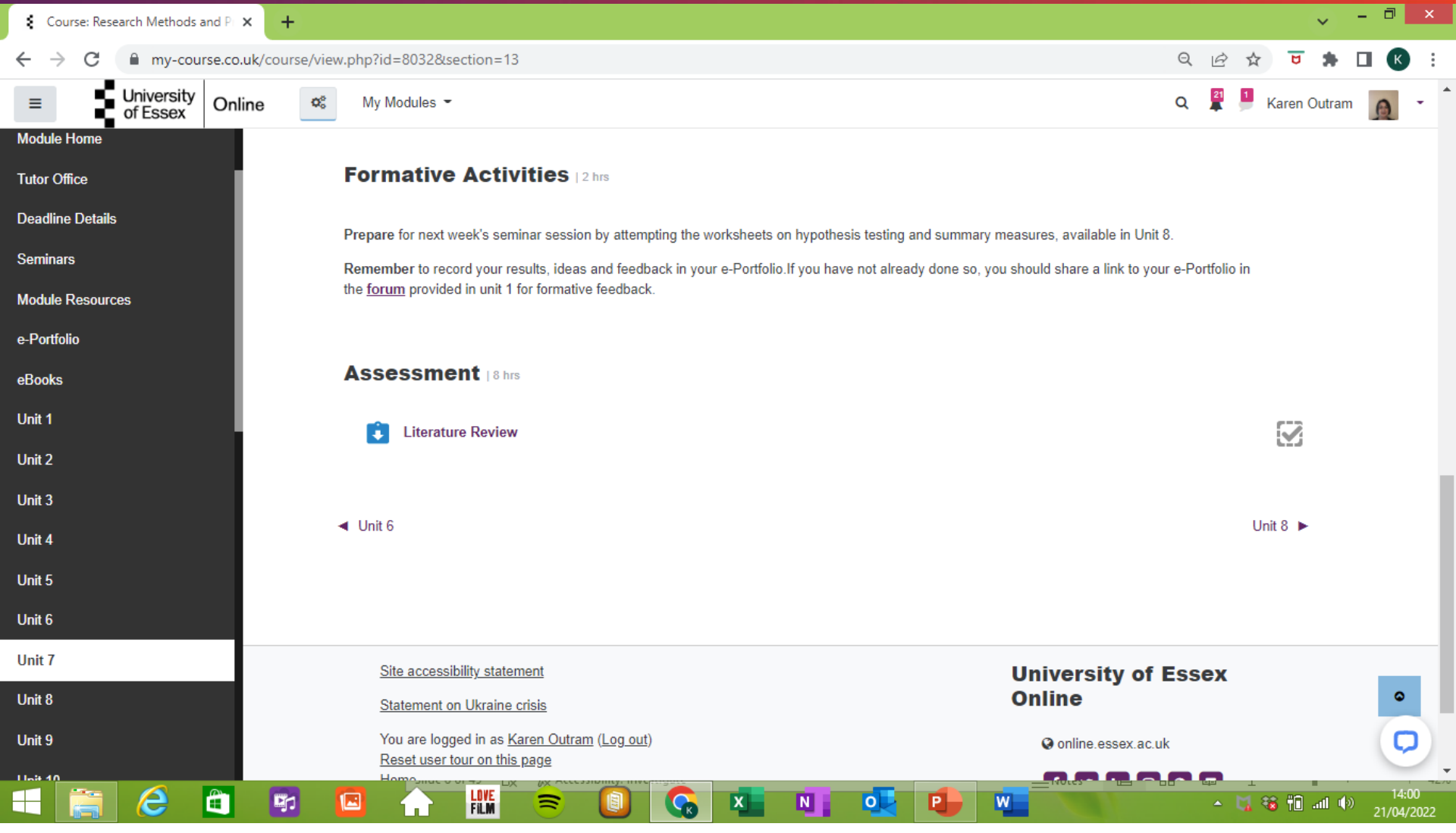
Recap up to unit 6:

- **To re-iterate as tutors we can guide, but ultimately it is the students responsibility to keep on top of deadlines, complete work in a timely manner and also observe all relevant formative and summative deadlines, and how these impact generally, but on that final e-portfolio specifically…**

University of Essex

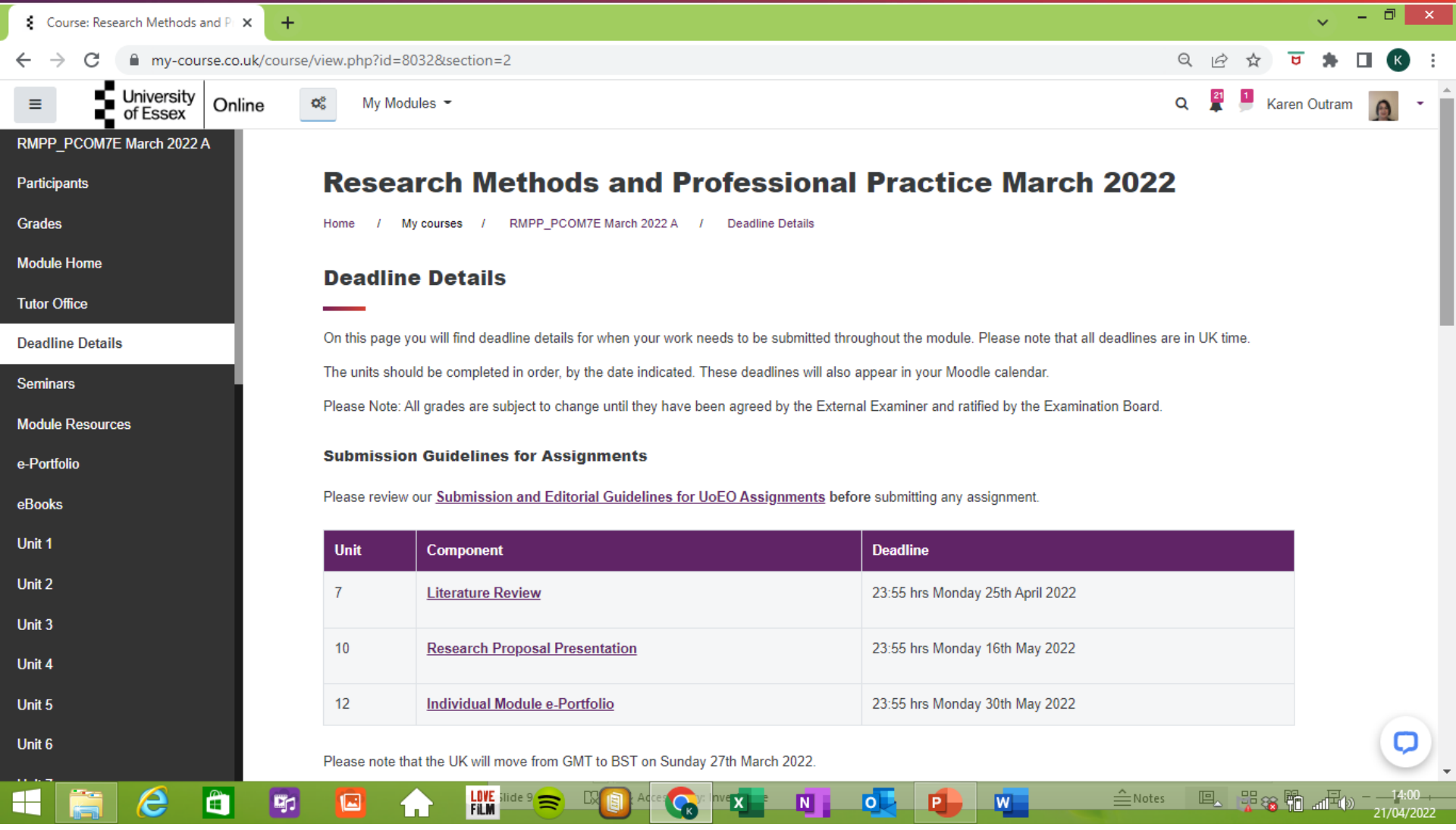
Online

Looking forward: Unit 7 – Summative Literature Review submission:



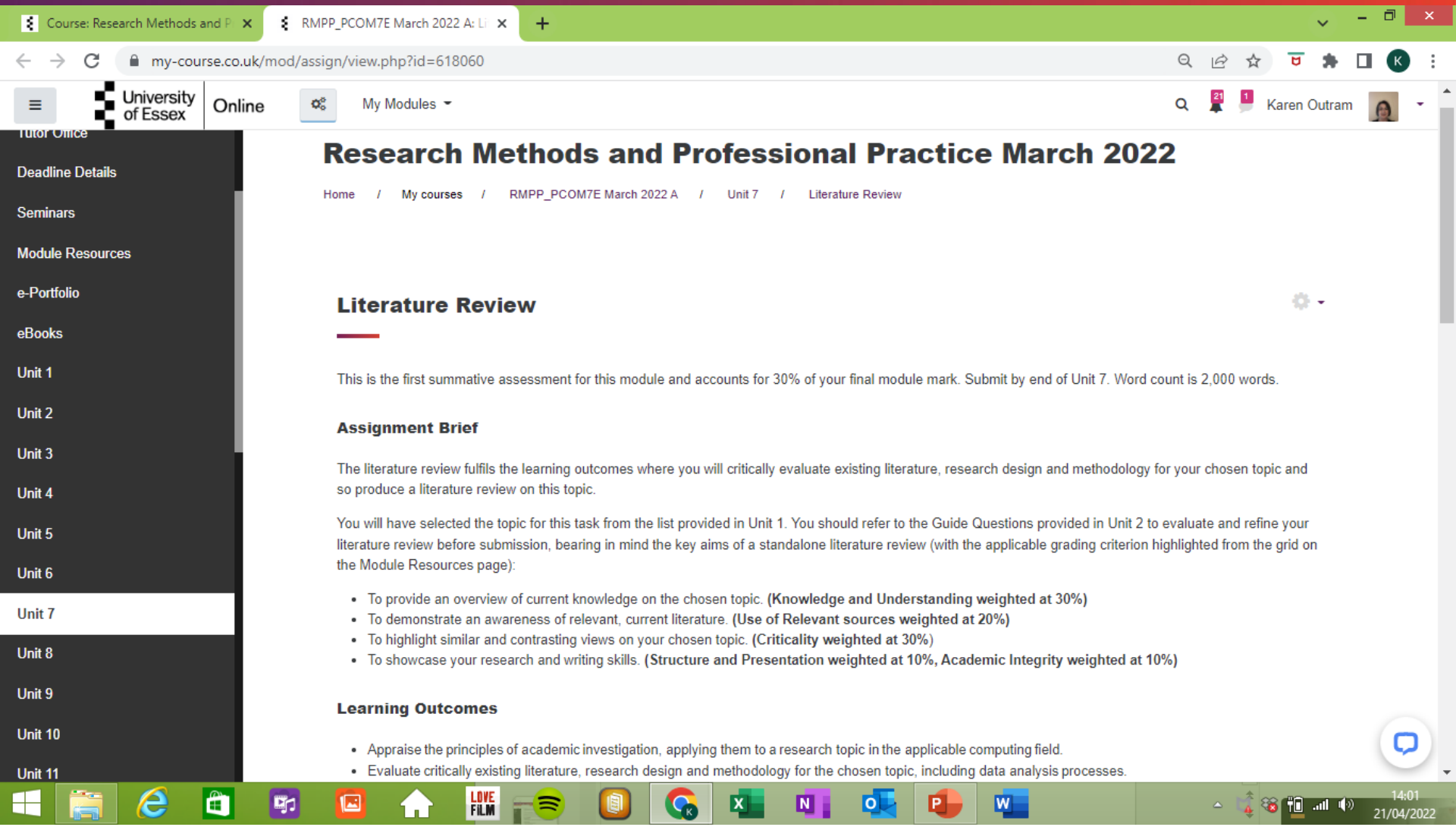
University of Essex Online

Deadline details: Unit 7 – Summative Literature Review submission:



University of Essex Online

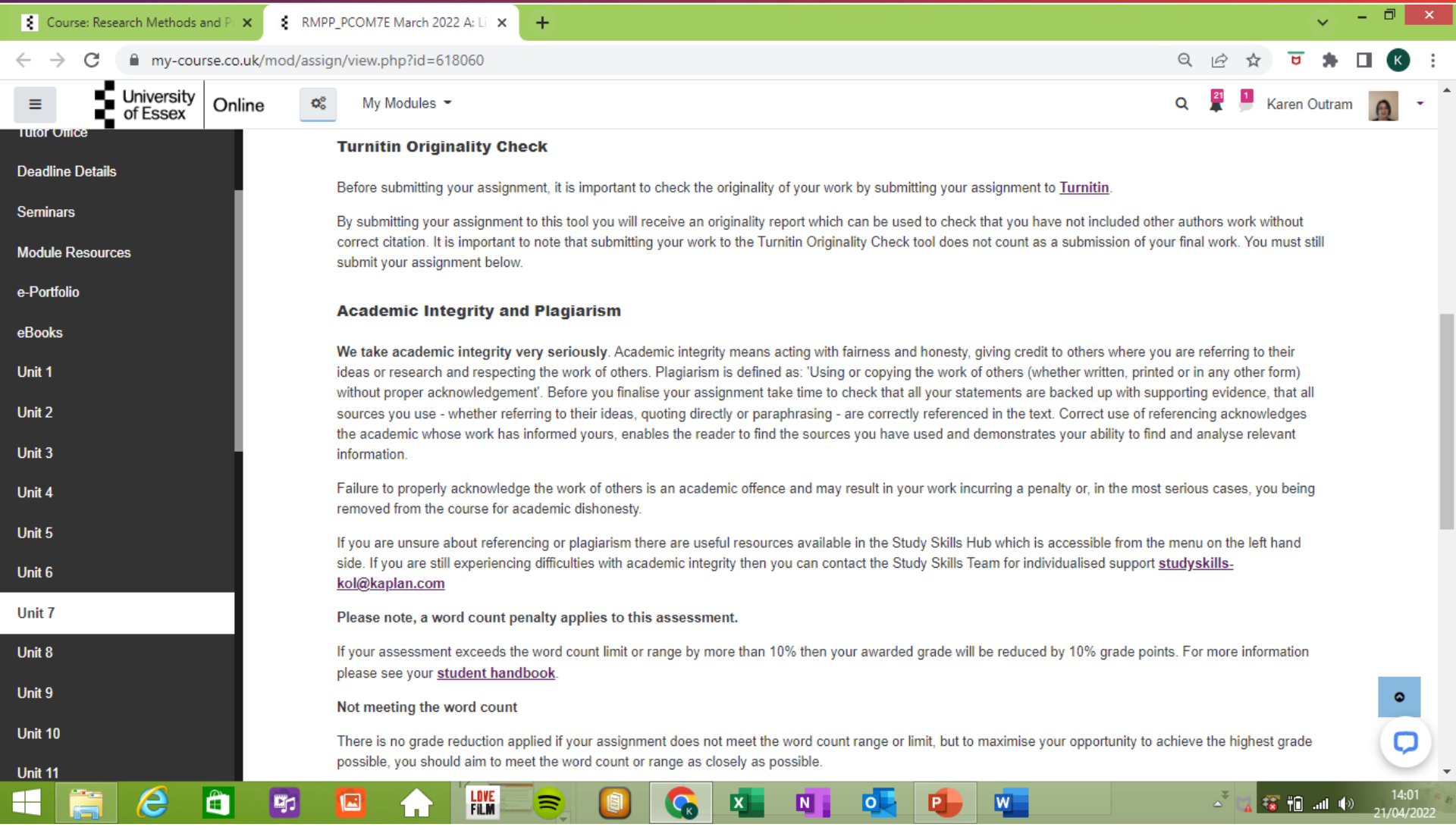
Deadline details: Unit 7 – Requirement:



University of Essex

Online

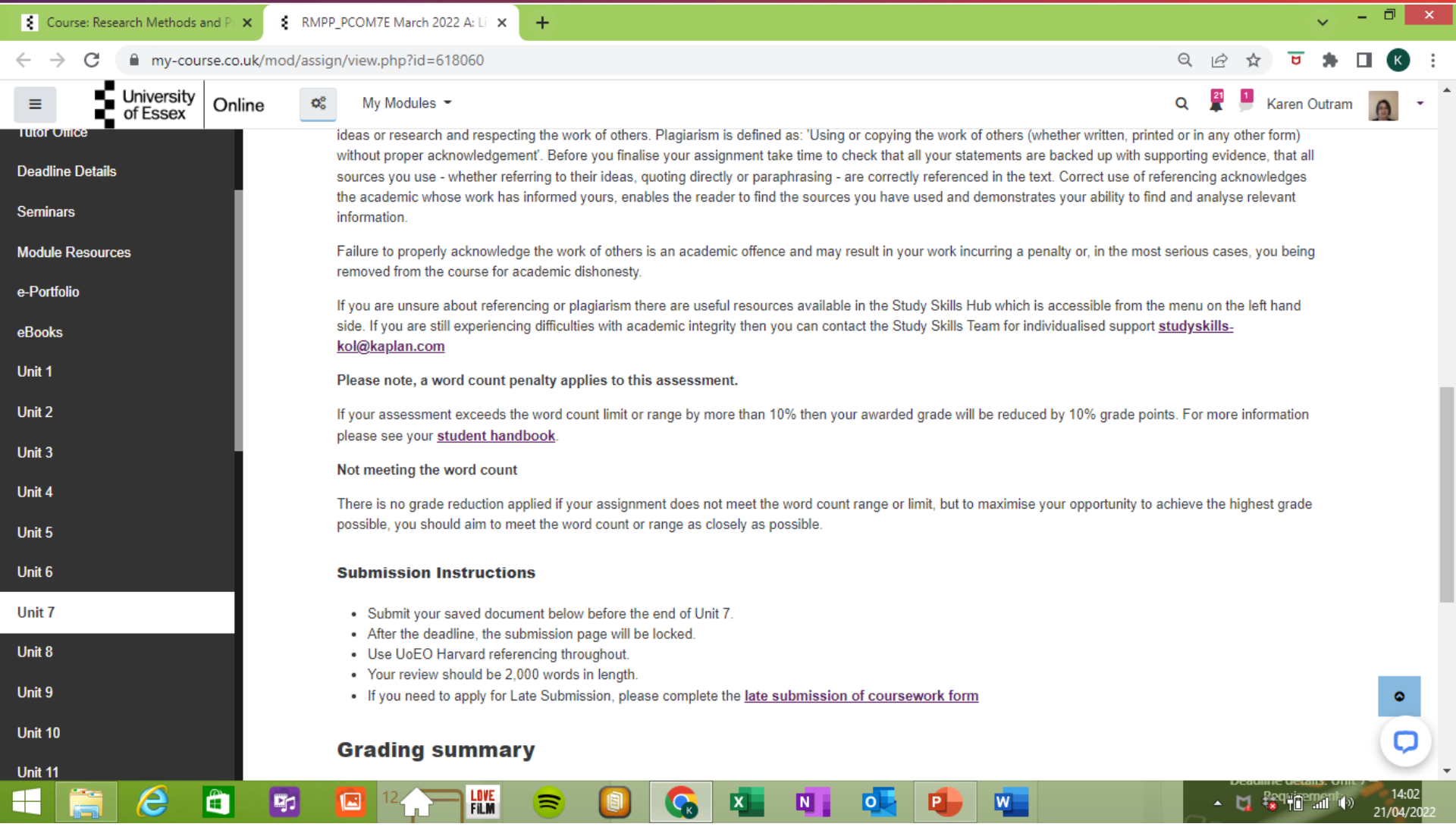
Deadline details: Unit 7 – Requirement:



University of Essex

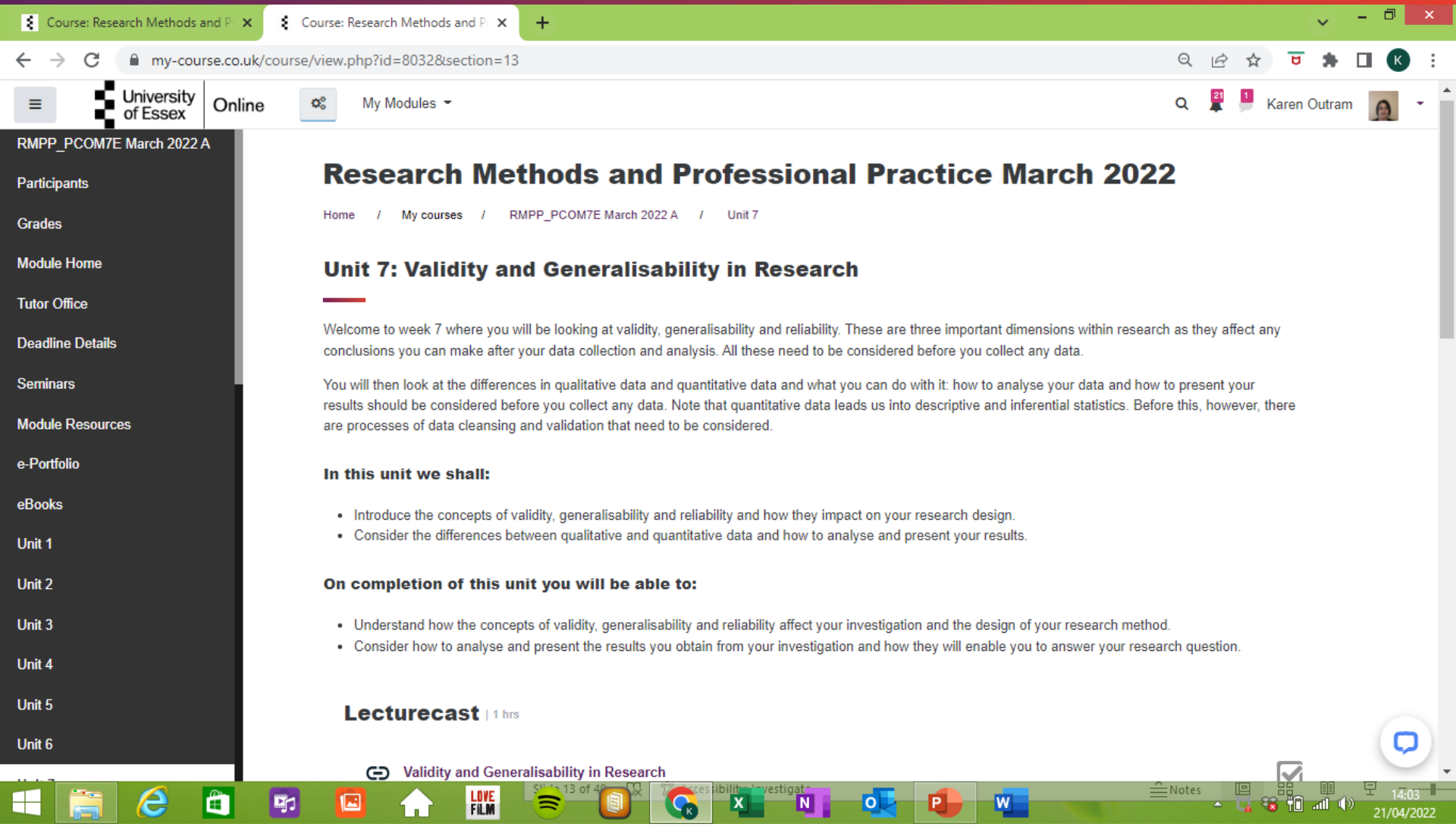
Online

Deadline details: Unit 7 – Requirement:



University of Essex Online

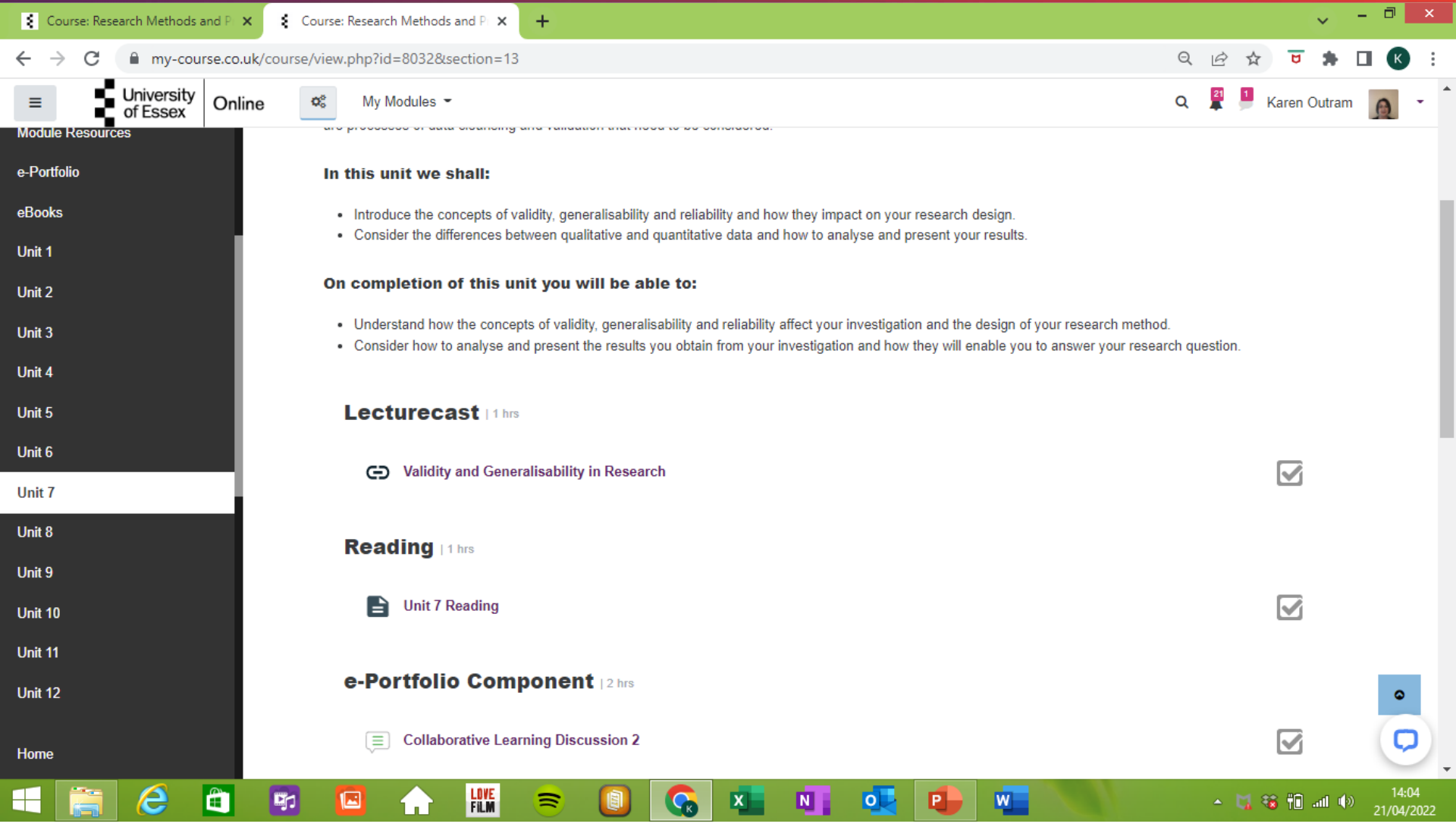
Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex

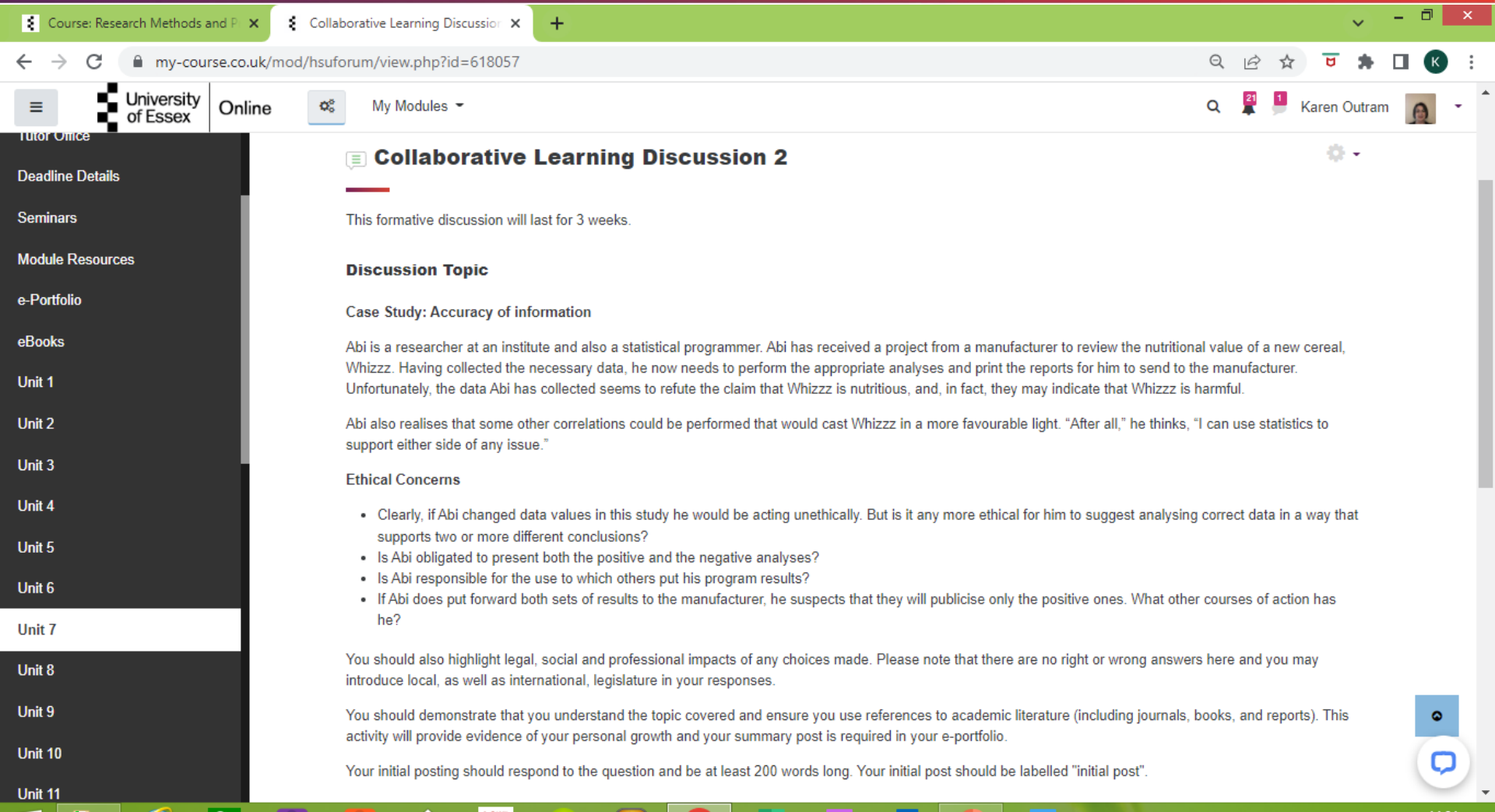
Online

Seminar 4 formative : Collaborative question: units 7, 8 and 9



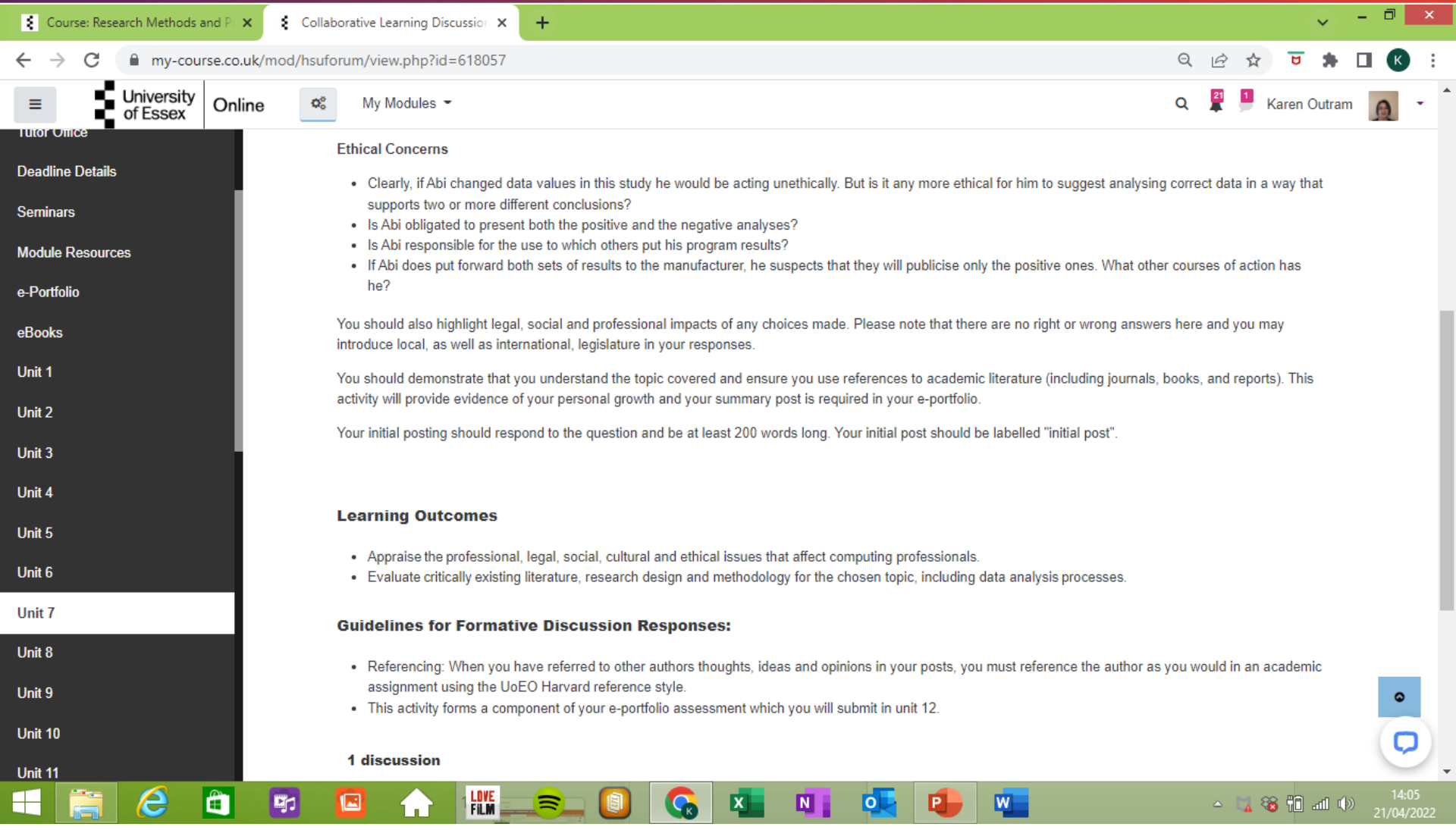
University of Essex Online

Seminar 4 formative : Collaborative question: units 7, 8 and 9



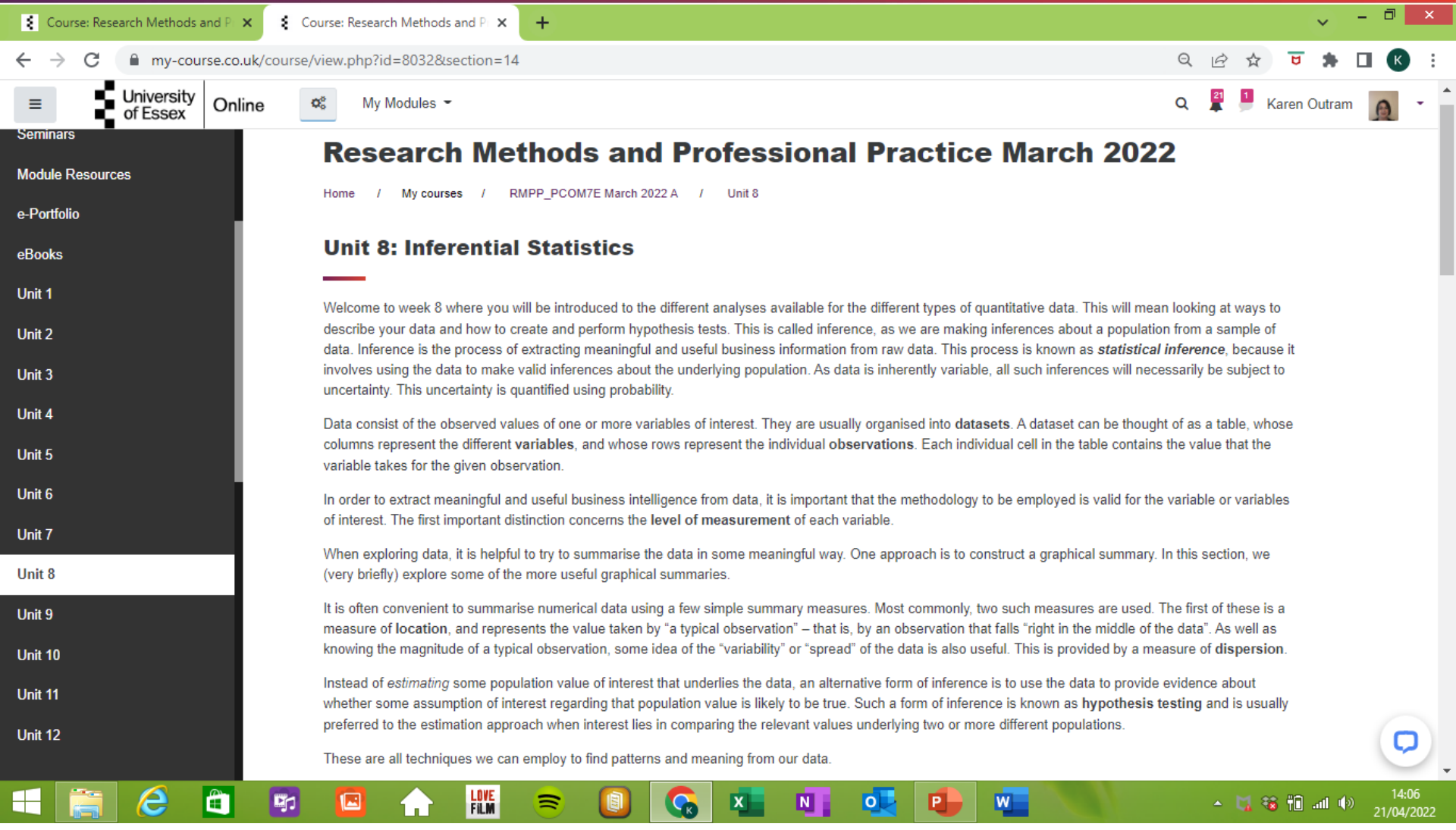
University of Essex Online

Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex Online

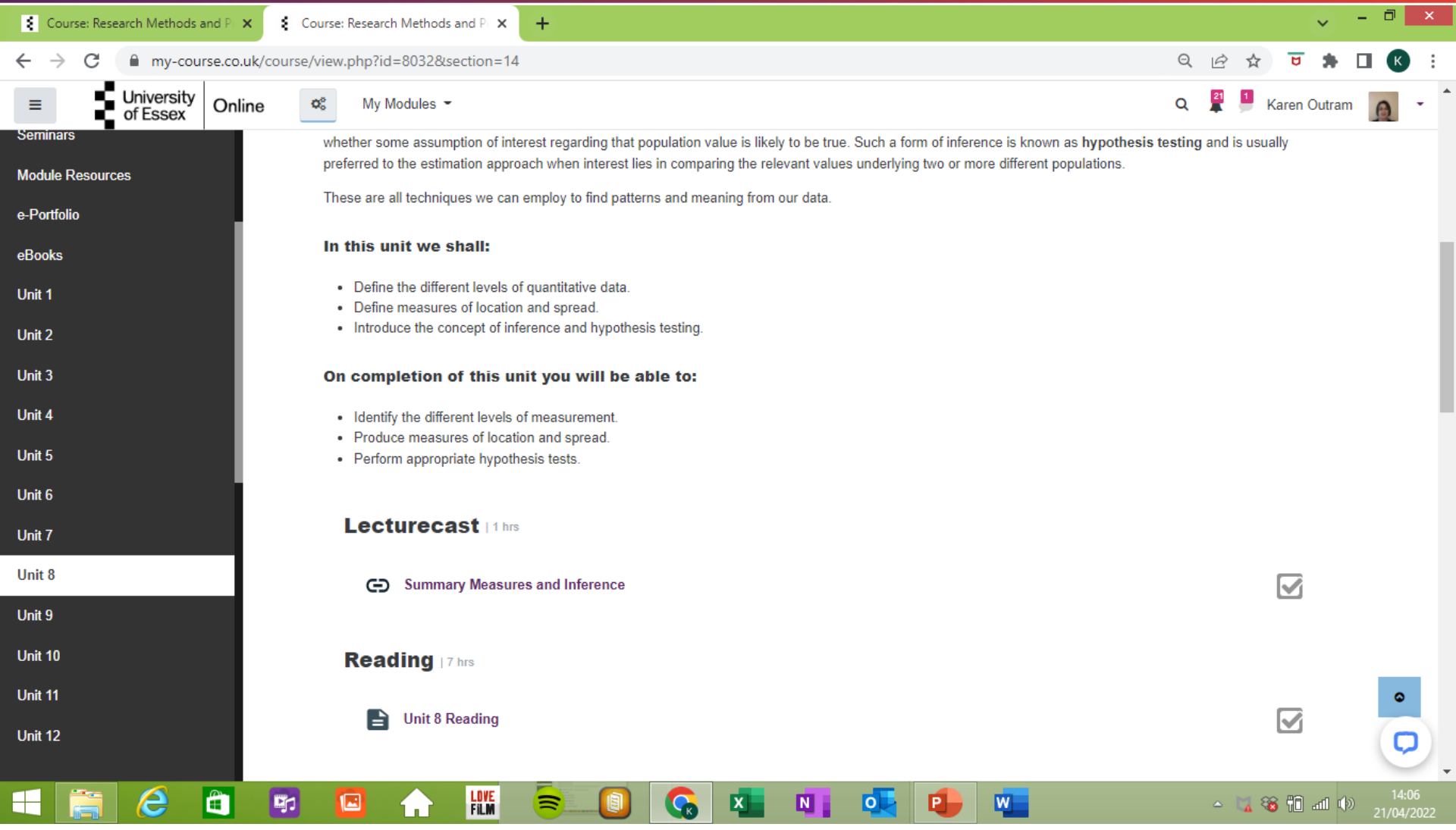
Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex

Online

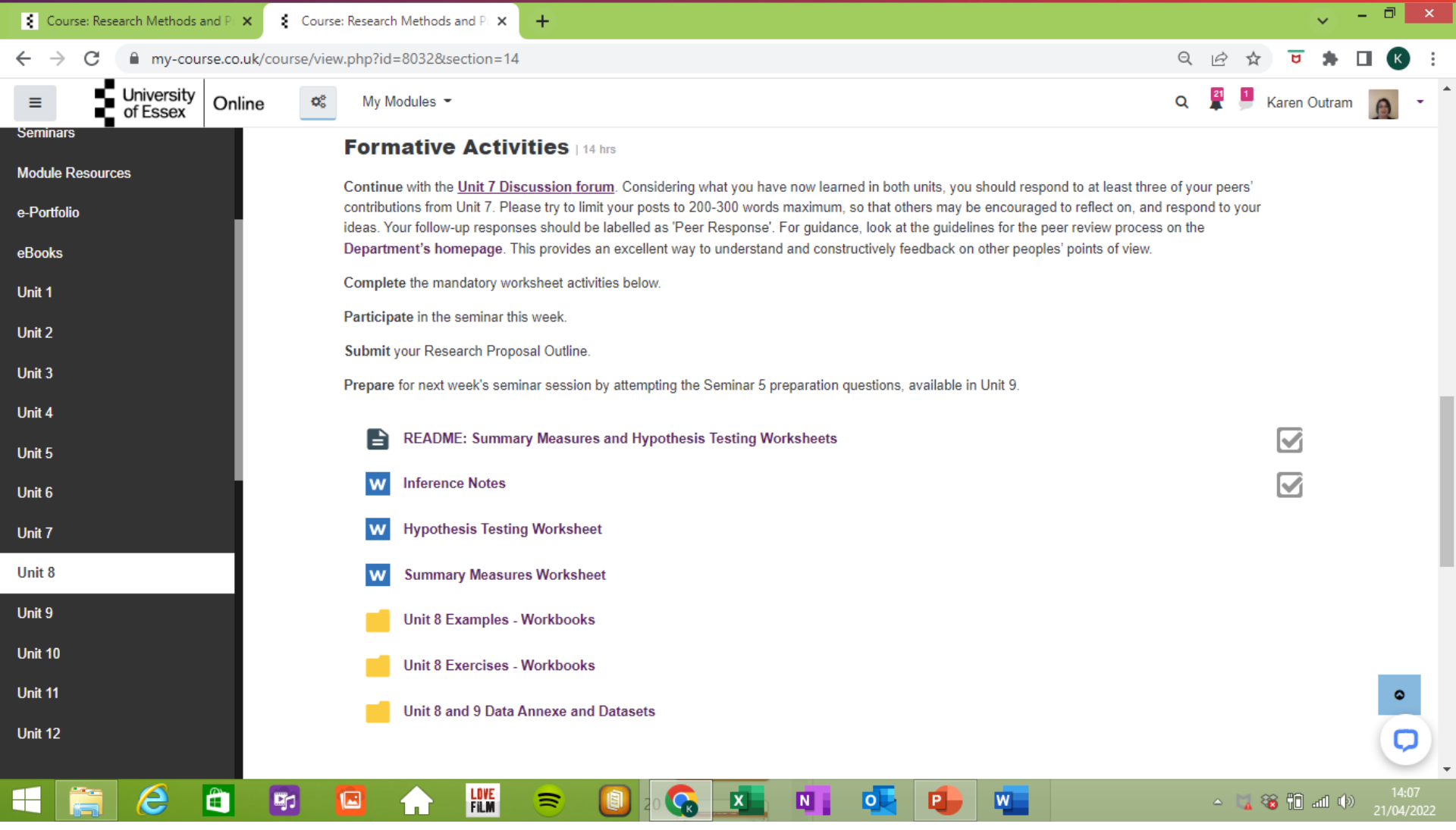
Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex

Online

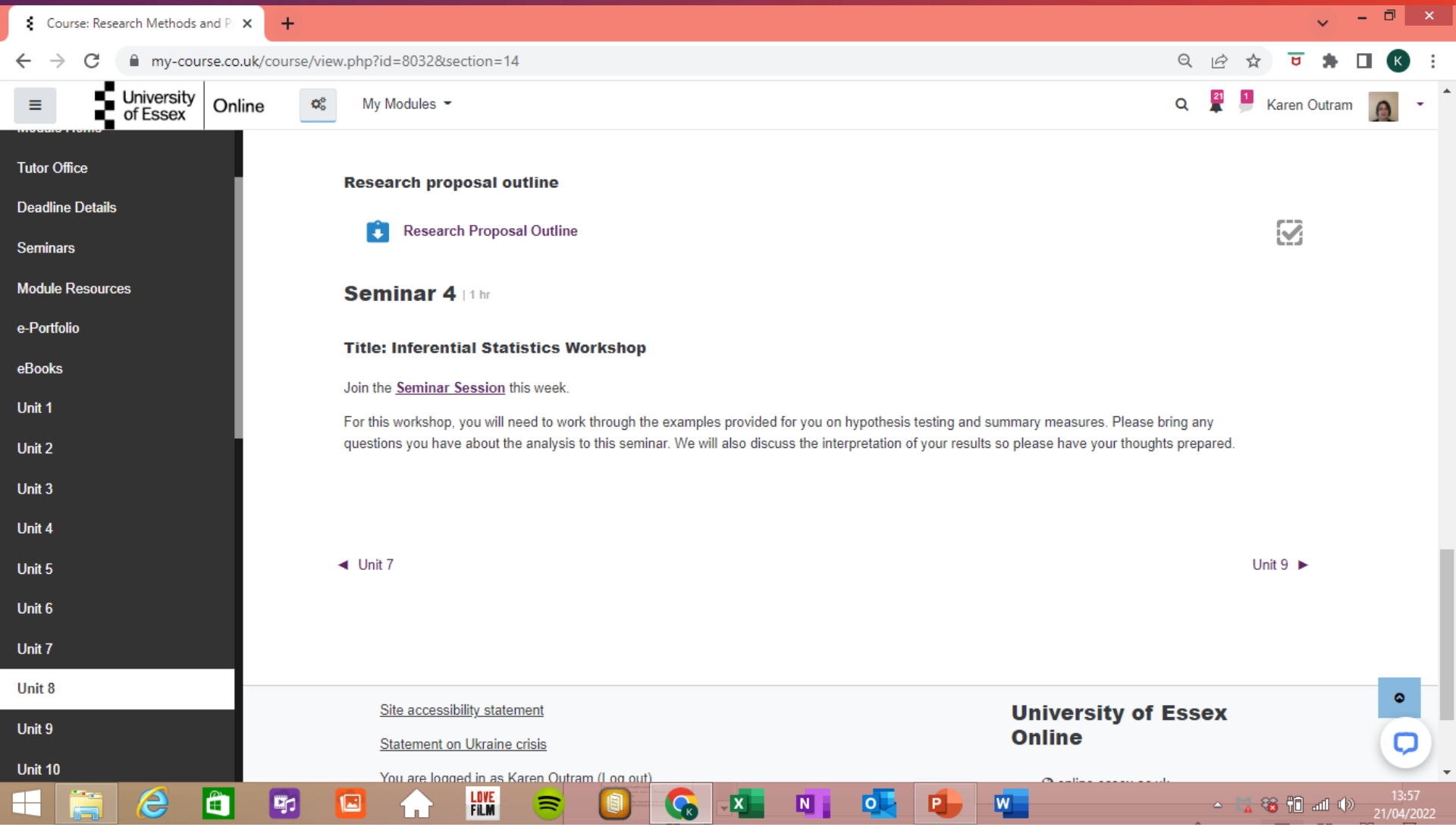
Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex

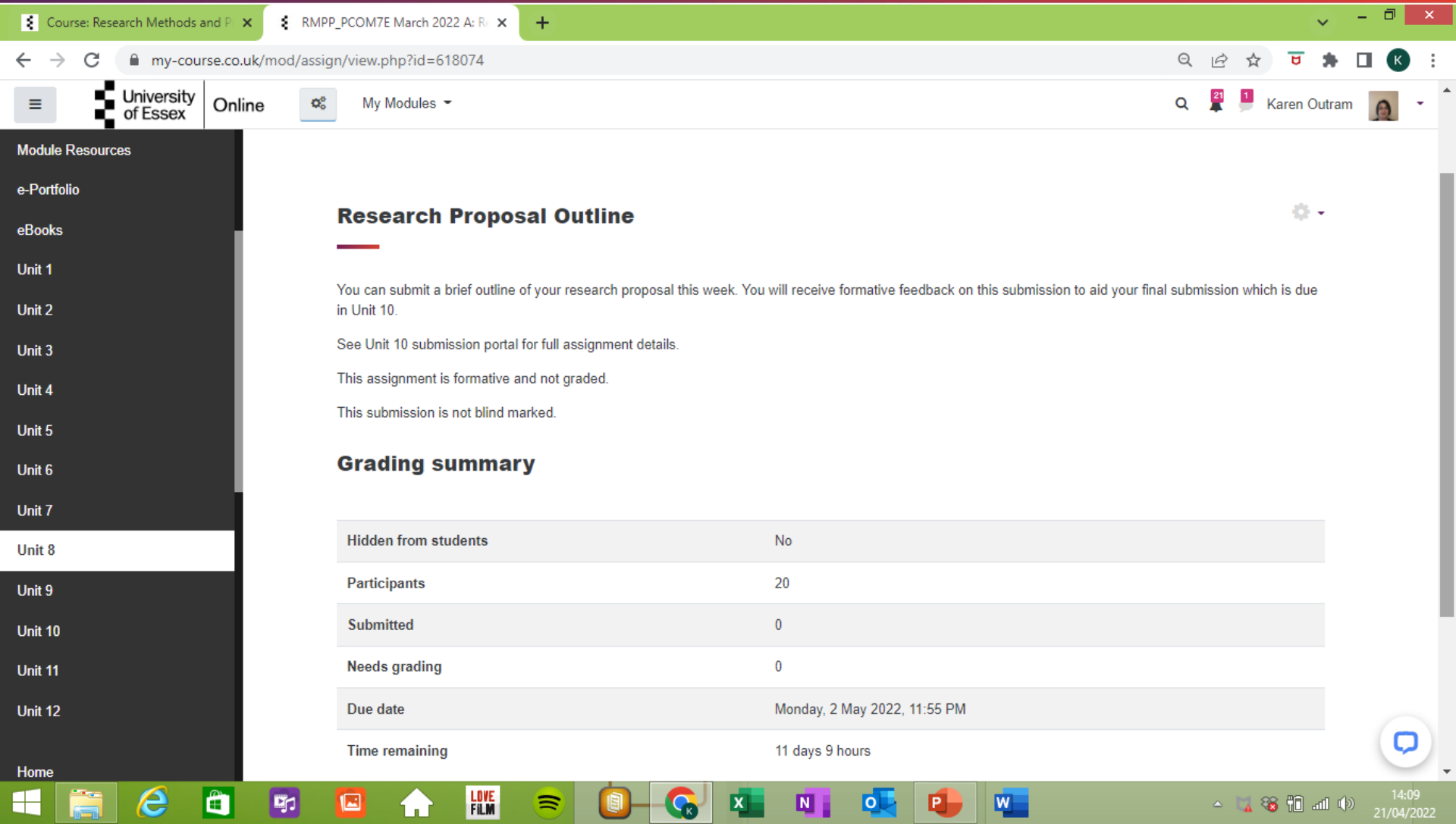
Online

Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex Online

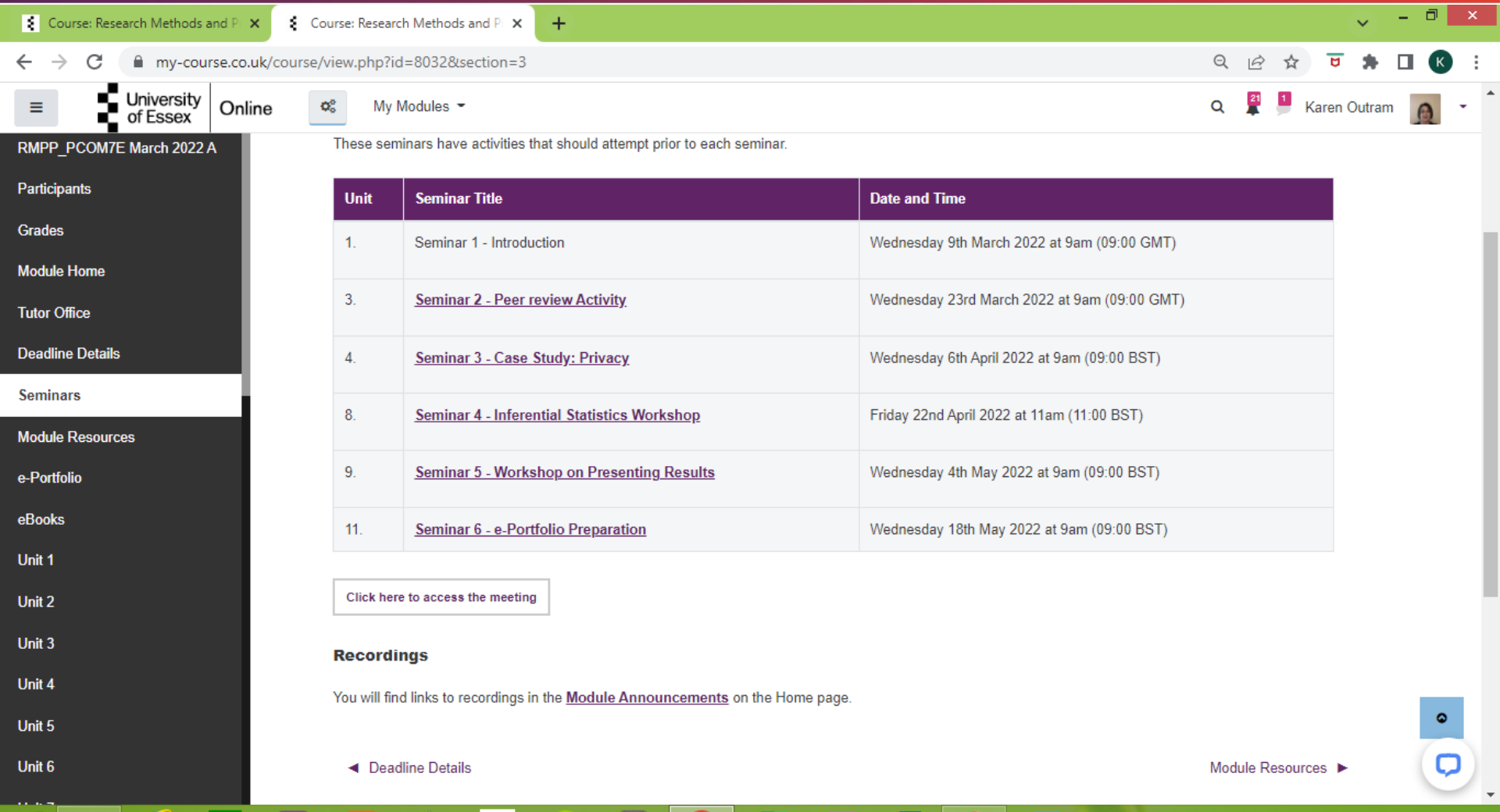
Seminar 4 formative : Collaborative question: units 7, 8 and 9



University of Essex

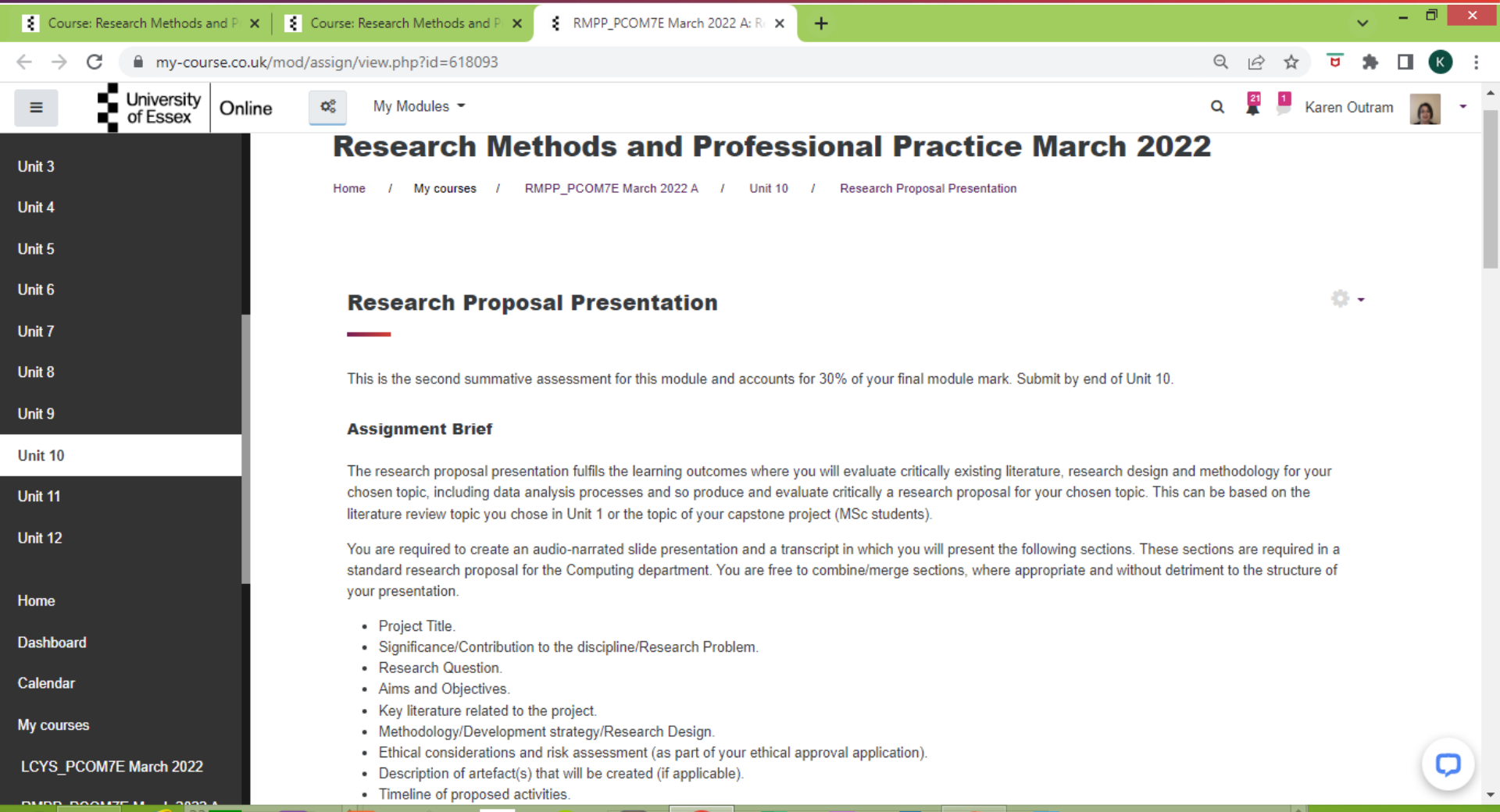
Online

Seminar 5: Is on the 4th of May 2022: Your research proposal is due in on: 2nd of May 2022:



University of Essex Online

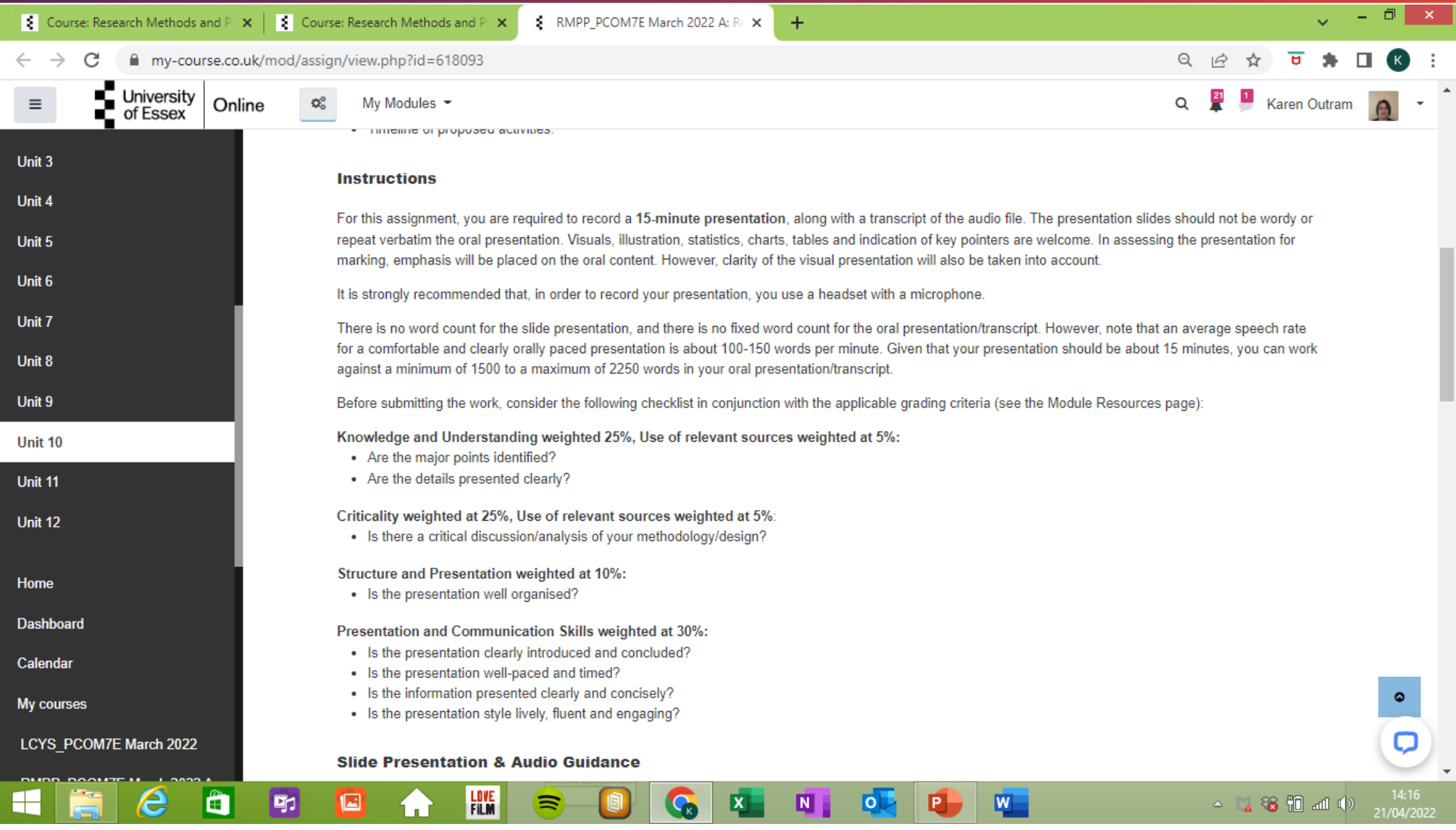
Seminar 4 formative : And so, for your research proposal outline for 2nd May hand in: consider what you are being asked to do for summative in the presentation for unit 10:



University of Essex

Online

Seminar 4 formative : And so, for your research proposal outline for 2nd May hand in: consider what you are being asked to do for summative in the presentation for unit 10:



University of Essex

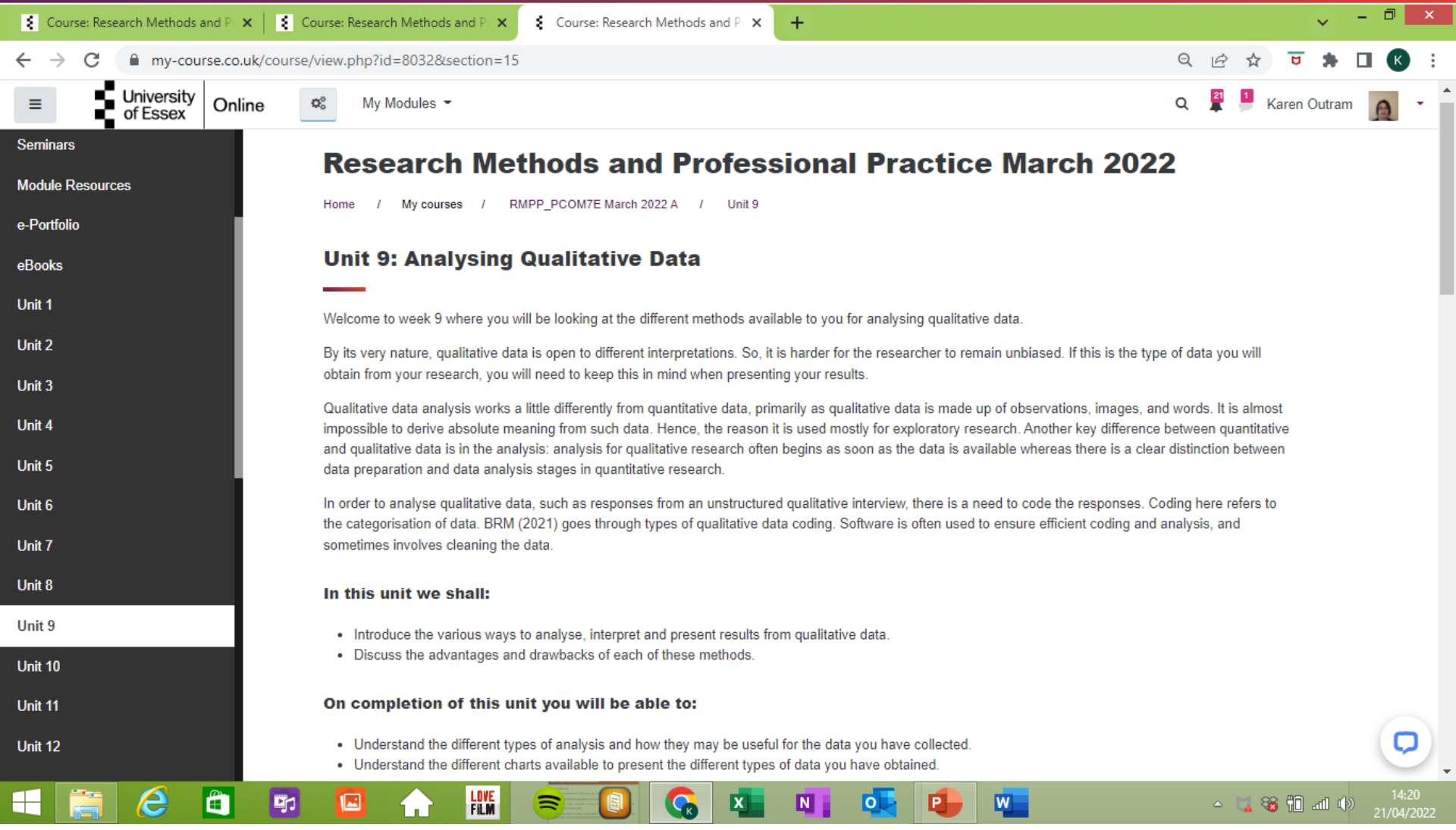
Online

Seminar 4 formative : Looking at the summative in unit 10 will help you to shape a 500 word proposal outline of what you intend to do:

- Which will be submitted to me your tutor online, [as discussed through previous slides in this seminar]
- It is very important everyone submits this for feedback – again these formative exercises should be added to your e-portfolio showing tutor feedback.
- Remember the proposal outline has to be submitted by the 2nd May 2022 by 23.55 hrs [UK] time for you to get feedback on the proposal ahead of your summative submission. I can't accept e mailed proposal submissions after this date.

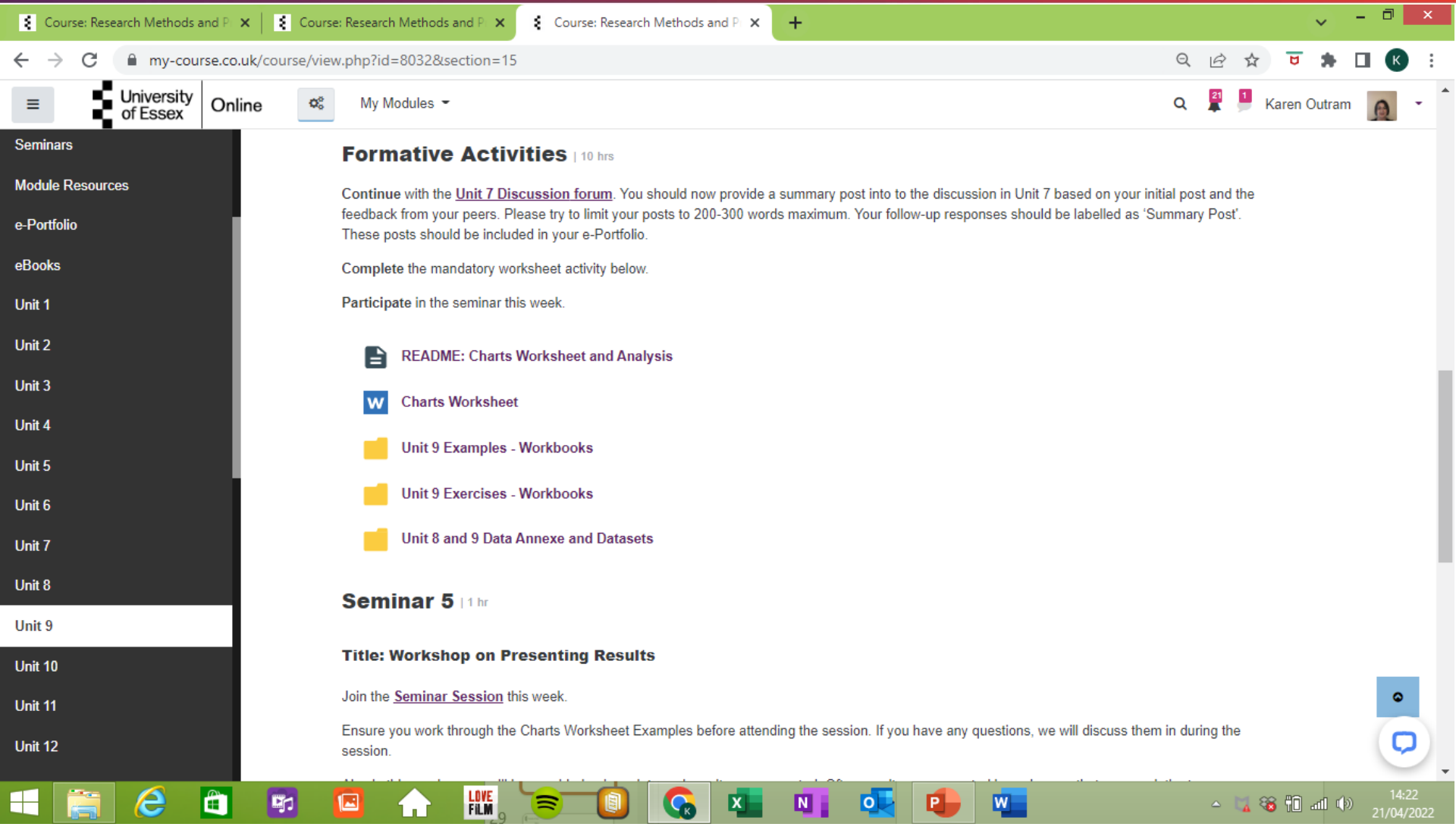
University of Essex Online

Seminar 4 formative : Looking forward to unit 9 formative:



University of Essex Online

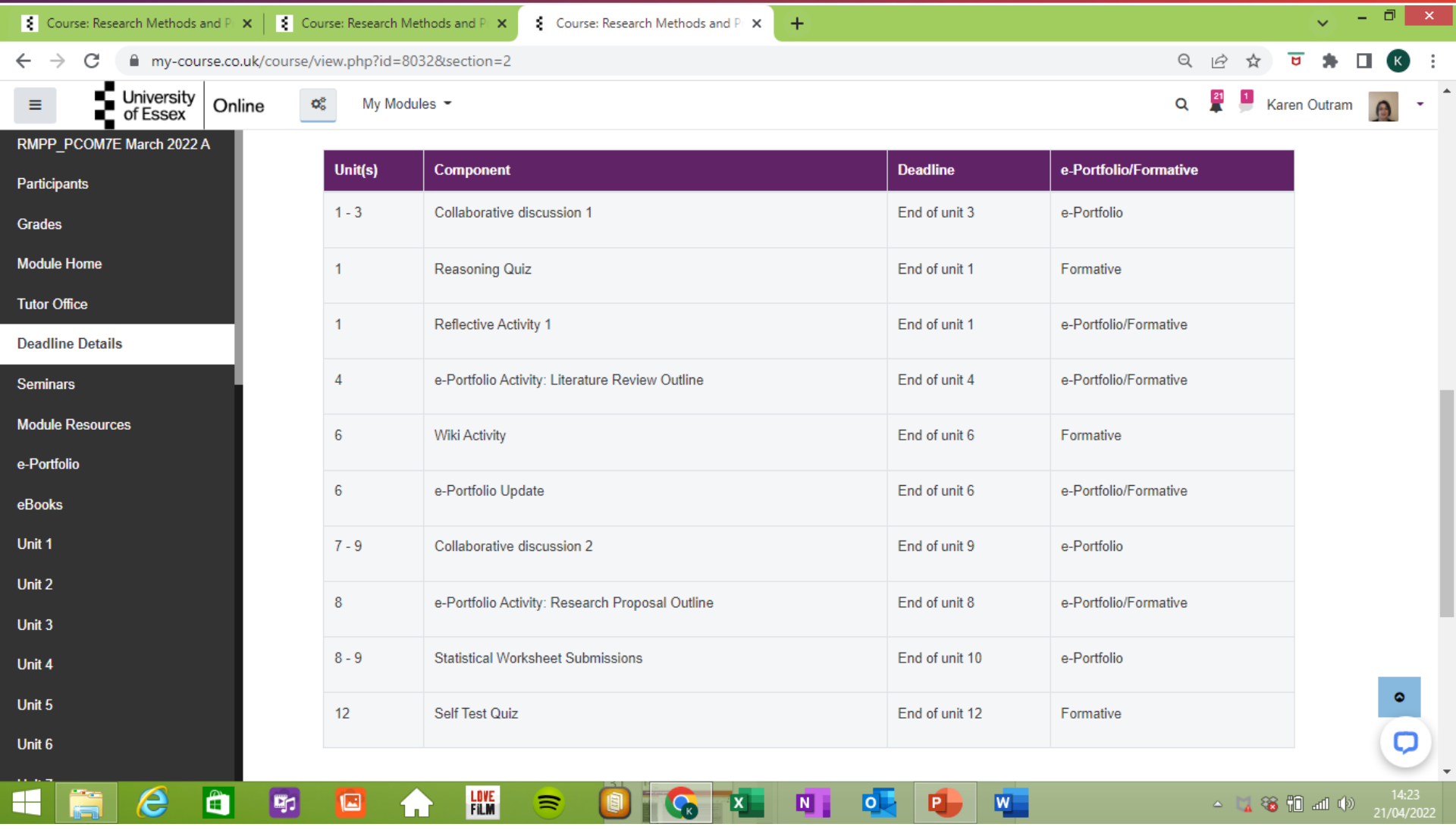
Seminar 4 formative : Looking forward to unit 9 formative:



University of Essex

Online

E-portfolio activity :



Unit(s)	Component	Deadline	e-Portfolio/Formative
1 - 3	Collaborative discussion 1	End of unit 3	e-Portfolio
1	Reasoning Quiz	End of unit 1	Formative
1	Reflective Activity 1	End of unit 1	e-Portfolio/Formative
4	e-Portfolio Activity: Literature Review Outline	End of unit 4	e-Portfolio/Formative
6	Wiki Activity	End of unit 6	Formative
6	e-Portfolio Update	End of unit 6	e-Portfolio/Formative
7 - 9	Collaborative discussion 2	End of unit 9	e-Portfolio
8	e-Portfolio Activity: Research Proposal Outline	End of unit 8	e-Portfolio/Formative
8 - 9	Statistical Worksheet Submissions	End of unit 10	e-Portfolio
12	Self Test Quiz	End of unit 12	Formative

University of Essex

Online

Recap on unit 7,8 and 9 request for prep for formative from seminar 3:

Looking forward to seminar 4:

• Prepare for the next seminar session by attempting the worksheets on hypothesis testing and summary measures, available in Unit 8.

• Collaborative Learning Discussion 2

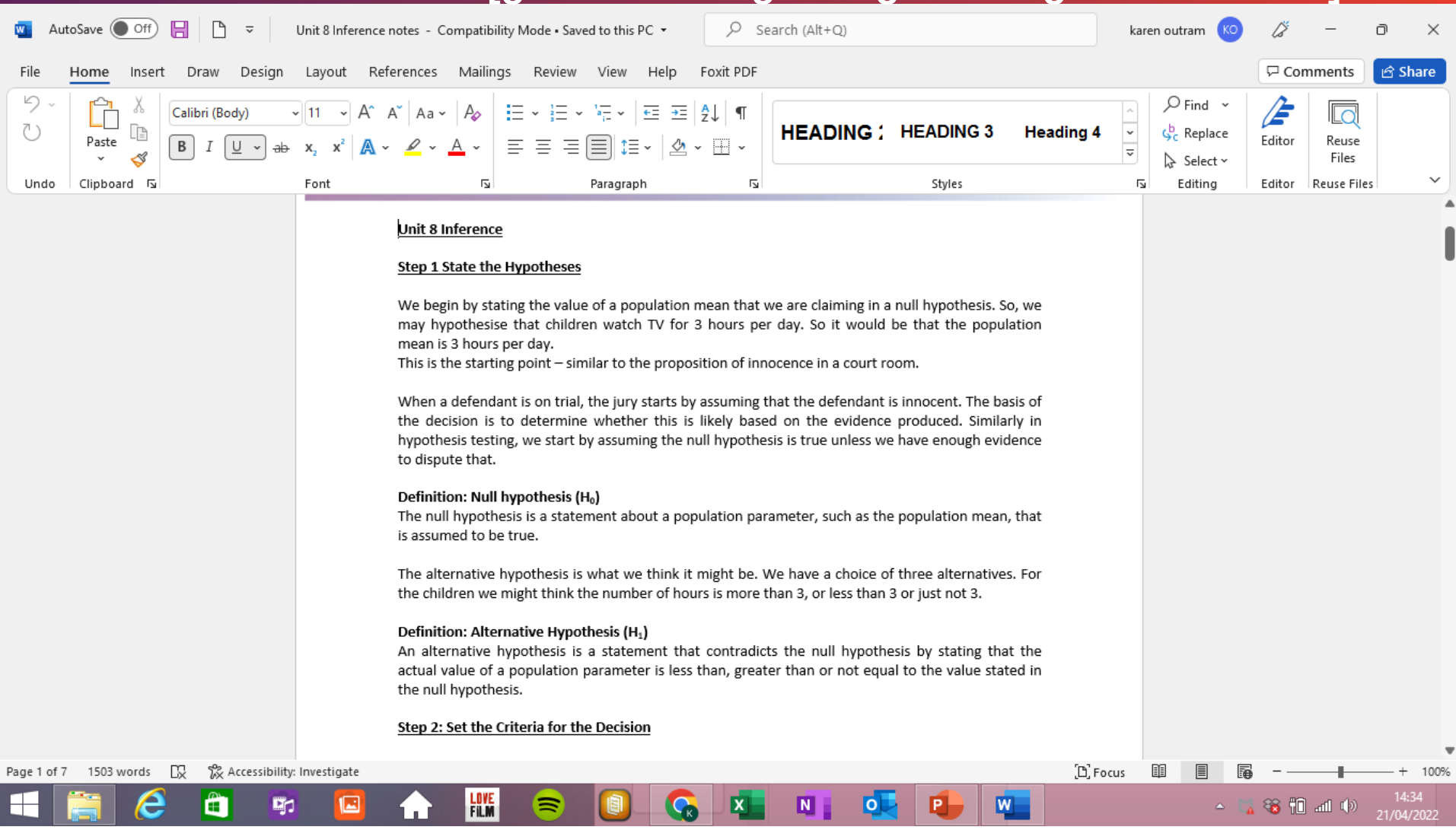
• **This formative discussion will last for 3 weeks.**

• Week 7: initial post.
• Week 8: at least 2 peer responses.
• Week 9: and then a summary response.

University of Essex

Online

Unit 8: Inference notes [guidelines regarding working out statistics]



Unit 8 Inference

Step 1 State the Hypotheses

We begin by stating the value of a population mean that we are claiming in a null hypothesis. So, we may hypothesise that children watch TV for 3 hours per day. So it would be that the population mean is 3 hours per day.
This is the starting point – similar to the proposition of innocence in a court room.

When a defendant is on trial, the jury starts by assuming that the defendant is innocent. The basis of the decision is to determine whether this is likely based on the evidence produced. Similarly in hypothesis testing, we start by assuming the null hypothesis is true unless we have enough evidence to dispute that.

Definition: Null hypothesis (H_0)
The null hypothesis is a statement about a population parameter, such as the population mean, that is assumed to be true.

The alternative hypothesis is what we think it might be. We have a choice of three alternatives. For the children we might think the number of hours is more than 3, or less than 3 or just not 3.

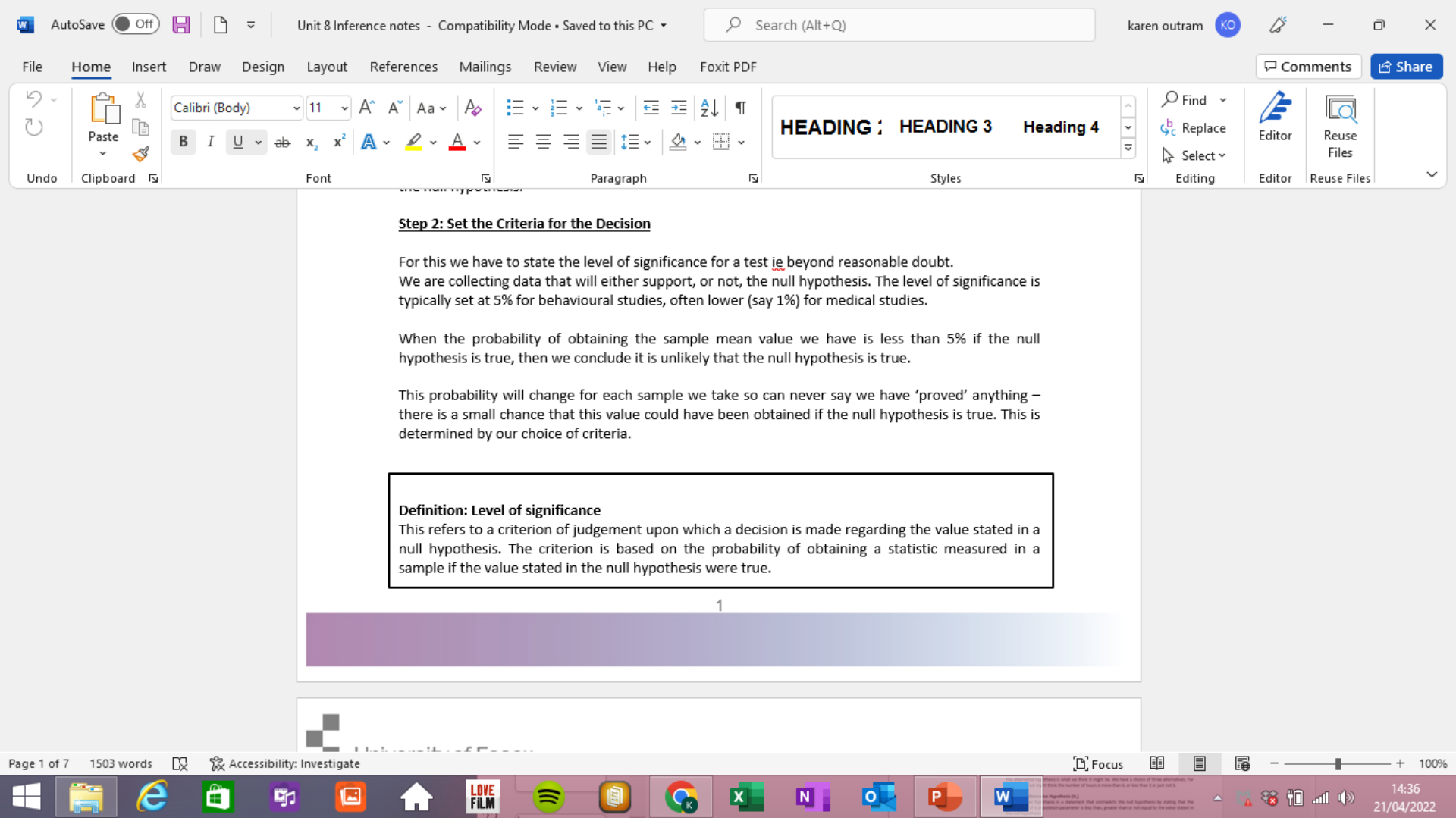
Definition: Alternative Hypothesis (H_1)
An alternative hypothesis is a statement that contradicts the null hypothesis by stating that the actual value of a population parameter is less than, greater than or not equal to the value stated in the null hypothesis.

Step 2: Set the Criteria for the Decision

University of Essex

Online

Unit 8: Inference notes [guidelines regarding working out statistics]



AutoSave Off | Unit 8 Inference notes - Compatibility Mode • Saved to this PC | Search (Alt+Q) | karen outram

File Home Insert Draw Design Layout References Mailings Review View Help Foxit PDF | Comments | Share

Undo | Clipboard | Font | Paragraph | Styles | Editing | Editor | Reuse Files

HEADING 2 HEADING 3 Heading 4

Find | Replace | Select

Step 2: Set the Criteria for the Decision

For this we have to state the level of significance for a test ie beyond reasonable doubt.
We are collecting data that will either support, or not, the null hypothesis. The level of significance is typically set at 5% for behavioural studies, often lower (say 1%) for medical studies.

When the probability of obtaining the sample mean value we have is less than 5% if the null hypothesis is true, then we conclude it is unlikely that the null hypothesis is true.

This probability will change for each sample we take so can never say we have 'proved' anything – there is a small chance that this value could have been obtained if the null hypothesis is true. This is determined by our choice of criteria.

Definition: Level of significance
This refers to a criterion of judgement upon which a decision is made regarding the value stated in a null hypothesis. The criterion is based on the probability of obtaining a statistic measured in a sample if the value stated in the null hypothesis were true.

1

Page 1 of 7 | 1503 words | Accessibility: Investigate | Focus | 100%

14:36 21/04/2022

University of Essex

Online

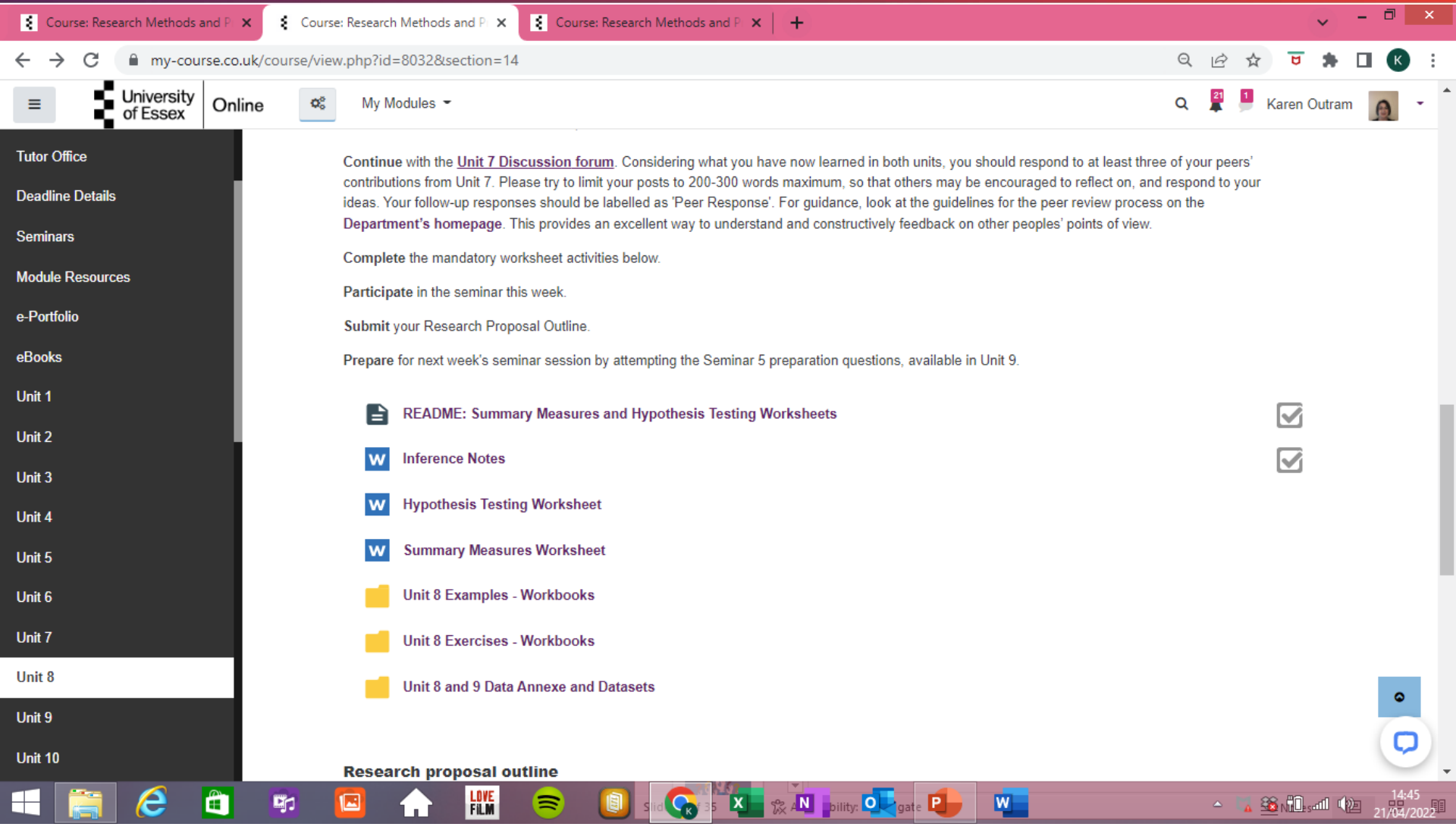
Unit 8: formative notes:

- **You then have test examples: based on the 'Inference' notes/instruction sheet and questions regarding what your conclusions would/will be when you then apply inferencing to ' the Hypotheses testing worksheet'. You are also required to interpret findings using the 'Summary measures worksheet'.**
- **Use the yellow folder, unit 8 examples – workbooks and unit 8 exercise workbooks when completing your worksheets, as well as the Unit 8 and 9 Data Annexe and Datasets, [please see screen shot on following slide].**

University of Essex

Online

Unit 8: formative:



University of Essex

Online

References: Unit 7:

Essential Reading

Kaplan, B. & Maxwell, J.A. (2005) Qualitative Research Methods for Evaluating Computer Information Systems. In: Anderson J.G. & Aydin C.E. (Eds) *Evaluating the Organizational Impact of Healthcare Information Systems. Health Informatics*. New York, NY: Springer.

Backman, R. (2012) *Confounding Variables*.

University of Essex

Online

References: Unit 8:

The reading this week focuses on understanding the various aspects of inferential statistics.

Essential Reading

Berenson, L., Levine, D. & Szabat, K. (2015) *Basic Business Statistics: Concepts and Applications*. 13th Ed. Pearson

•Chapter 1 Section 1.2 p 44-45.
•Chapter 3 Section 3.1 130-135.
•Chapter 3 Section 3.2 p 135-144.
•Chapter 3 Section 3.3 p 148-153.
•Chapter 3 Section 3.4 p 155-157.
•Chapter 3 Section 3.6 p 165-166.
•Chapter 9 Section 9.1 p 336-348.
•Chapter 9 Section 9.2 p 348-353.
•Chapter 9 Section 9.3 p 356-359.
•Chapter 9 Section 9.5 p 364-365.
•Chapter 10 Section 10.1 p 375-384.
•Chapter 10 Section 10.2 p 387-394.
•Chapter 18 Section 18.1 p 735-739.
•Chapter 1 Section 1.1 p 42-43.

University of Essex

Online

References: Unit 9:

Essential Reading

Berenson, L., Levine, D. & Szabat, K. (2015) *Basic Business Statistics: Concepts and Applications*. 13th Ed. Pearson

•Chapter 2 Section 2.2 p 66-68.

•Chapter 2 Section 2.3 p 79-83.

•Chapter 2 Section 2.4 p 85-90.

•Chapte 2 Section 2.5 p 93-95.

Learning for Action (n.d.). Analyzing Qualitative Data.

Additional Reading

Schneider, C. (2018) Making the case: A Qualitative Approach to Studying Social Media Documents in: Bryman, A. & Buchanon D. (Eds) *Unconventional Methodology in Organization and Management Research*. Oxford Scholarship Online.

Business Research Methodology (BRM) (2018) *Qualitative Data Analysis Methods.*

Bhatia, M. (2018) *Your Quide to Qualitative and Quantitative Data Analysis* Methods. Humans of Data.

University of Essex

Online

Questions?