



Computer Science and Creative Technologies

Coursework or Assessment Specification

Module Details

Module Code	UFCFXN-15-M
Module Title	Cyber Security Futures Emerging Trends and Challenges
Module Leader	Essam Ghadafi
Module Tutors	Panagiotis Andriotis & Phil Legg
Year	20jan_1
Component/Element Number	A: Group Presentation (25%) B: Group report (with individual reflective report) (75%)
Total number of assessments for this module	2

Dates

Date issued to students	14/06/2021
Feedback Date	By 27/08/2021
Submission Date	05/08/2021
Submission Place	Blackboard
Submission Time	14:00
Submission Notes	Strictly adhere to submission requirements in Section 3

Feedback

Feedback Provision	Individual written feedback will be provided on Blackboard by 27/08/2021
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1 Overview of the Assessment

Both components of the assessment are linked to the following learning outcomes of the module:

- Evaluate and critique the current trends and challenges in cyber security.
- Report on evidenced speculation about likely future trends and their impact.
- Communicate complex information clearly and effectively.

If you have questions about this assessment, please post them to the discussion board on Blackboard or contact the module leader.

2 Task Specification

Both components of this assessment are group based and need to conform to all the following requirements:

- The group size is 1-3 students. You must announce your group choice and the chosen topic via the dedicated form on Blackboard no later than 28th of June 2021.
- The chosen topic must not largely overlap with any of the individual member's dissertation topics. All members' dissertation topics must be clearly stated in the report, i.e. in the submission for Component B.
- The chosen topic must align with the Cyber Security Body of Knowledge (CyBOK)(<https://www.cybok.org>). It is the responsibility of the team members to demonstrate such an alignment in the report, i.e. in the submission for Component B.

2.1 Component B: Group Report (with individual reflective report)

This component is worth 75% of the overall mark of the module. For this component, your group is required to produce a 4500-word group report that provides an in-depth (critical) analysis of an issue relating to current and emerging trends in Cyber Security. Each member of the group needs to submit individually the group report and additionally include an **individual** reflection of the analysis and how the individual envisions future development in the chosen domain. The personal reflection is to be done by each member individually, e.g. see the sample report templates. All members of the group must agree upon and *sign* the contribution share form which states the percentage of the contribution of each member in the group work. The signed contribution form must be included in the report. The mark for this component of the assessment will be based on the performance of the group as a whole and the percentage of the individual's contribution in the group work.

The group need to conduct a literature review within the chosen domain, provide a critical analysis of existing work in the domain, identify key contributions in the domain, and draw conclusions about the implications for Cyber Security of your chosen topic. Your report must include suggestions as to how future development and challenges in that domain can be addressed.

Your report should be written for a professional audience and should make an influencing case as to why your proposal/roadmap is important. The submitted report is expected to be no more than 4500 words. You must use the UWE Harvard referencing style (<https://www.uwe.ac.uk/study/study-support/study-skills/referencing/uwe-bristol-harvard>). An example report layout can be found next to the assessment specification on Blackboard.

2.2 Component A: Group Presentation

This component is worth 25% of the overall mark of the module. For this component, your group is required to produce a recording of a presentation by the group to cover the critical review from Component B and discuss the limitations faced, comparison and discussion of findings, your proposed solution/road-map and how the domain/topic could be developed further. The presentation must include visual materials such as PowerPoint slides. The presentation must be no longer than 15 minutes. All members need to contribute to the delivery of the presentation. Among other things, the presentation should address the following:

- The chosen topic and its implications for cyber security.
- A brief overview of your findings in the literature review, i.e. contributions, strengths, limitations, and weaknesses of selected main existing related work.
- Your conclusion.
- Recommendations for future work in the domain.

3 What to Submit

For component B you need to submit a report in PDF or MS Word format. For component A, you need to submit a recording of a presentation, usually this is an mp4 file. It is your responsibility to ensure that all submitted files are intelligible and open without problems.

4 Plagiarism

Submissions that are substantially similar will be subject to investigation according to university regulations and any proven cases will be dealt with according to the regulations. More details can be found here <http://www1.uwe.ac.uk/students/academicadvice/assessments/assessmentoffences.aspx>

5 Marking Criteria

5.1 Component B

	0 To 39%	40 To 49%	50 To 59%	60 To 69%	70 To 100%
Group Report (75%)	No, or very limited range of, existing work considered. No awareness of the breadth of the domain area. Work is largely descriptive, lacking in thoroughness and organisation; virtually no analysis of the material. Conclusions are absent or show no real connection to the investigation undertaken. Widespread lapses of expression. Referencing very messy or absent. Sloppy presentation throughout. Topic hardly aligns with CyBOK or greatly intersects with members' dissertations.	Limited sources considered. Little critical judgement applied. Analysis generally superficial and unsystematic. Conclusions poorly developed, or showing only a weak relationship to the evidence and analysis. Language often not very clear; several errors of grammar, spelling or word choice. Referencing system not properly or consistently used. Presentation weak. Topic weakly aligns with CyBOK or largely intersects with members' dissertations.	A range of relevant sources discussed, but limited as an overview. Some critical judgement applied. Generally sound and methodical analysis, showing some awareness of problems of interpretation. Some relevant conclusions that build on the evidence and analysis. Reasonably well developed, but links to wider themes not drawn out. Generally good standard of written expression. Referencing and source attribution methodical and accurate. Some useful illustrative materials. Topic somewhat aligns with CyBOK or somewhat intersects with members' dissertations.	Good range of relevant sources examined, providing a well-considered overview. Evidence of some good critical judgement. Consistently sound and methodical analysis. Well-chosen and carefully explained conclusions and generally clear link to the analysis. Wider implications recognized. Consistently good standard of written expression, referencing and source attribution. Illustrative material well-chosen and presented clearly and accurately. Topic aligns with CyBOK and little (if any) intersection with members' dissertations.	Excellent selection of up-to-date material critically evaluated and carefully used. Showing good critical judgement. Conclusions are well developed and clearly articulated, and carefully linked to the evidence and analysis. High level of critical reflection. Fluently and elegantly expressed throughout. High quality illustrative materials. Consistently high standards of referencing and source attribution. Topic perfectly and clearly aligns with CyBOK and does not intersect with members' dissertations.
Individual Reflection (25%)	Little or no evaluation; demonstrates little or no reflection; little or no discussion of the limitations; provides little or no suggestions for further development.	Poor evaluation; demonstrates little reflection on the aspects; little discussion of the limitations; provides little suggestions for further development; more depth is needed.	Good evaluation and demonstrates reflection on some aspects; discusses limitations and provides realistic suggestions for further development; more depth is needed in the analysis.	Very good evaluation and demonstrates reflection on most aspects; discusses limitations and provides realistic suggestions for further development.	Outstanding evaluation and demonstrates outstanding reflection on all aspects; discusses in great detail limitations and provides realistic suggestions for further development.

5.2 Component A

	0 To 39%	40 To 49%	50 To 59%	60 To 69%	70 To 100%
Knowledge & understanding of real-world cyber security emerging trends (Group 40%)	Limited/no discussion of the chosen topic and its implications.	Shallow discussion of the chosen topic and its implications.	Some discussion of the chosen topic and its implications.	Good discussion of the chosen topic and its implications with good detail regarding threats, vulnerabilities, risks, and impact.	Excellent discussion of the chosen topic and its implications with excellent detail regarding threats, vulnerabilities, risks, and impact.
Demonstration of knowledge & understanding of trends in cyber security (Group 30%)	Limited or no discussion of the chosen topic and its implications; hardly or no linkage to existing/future trends.	Some discussion of the chosen topic and its implications, vaguely describes the stages of preventing cyber security issues without proposed solutions/roadmap; little linkage to existing/future trends.	Good discussion of the chosen topic and its implications; clearly describes the stages of preventing cyber security issues, and application of this to the chosen theme with proposed solution/roadmap; good linkage to existing/future trends.	Very good discussion of the chosen topic and its implications, making clear the stages of preventing cyber security issues, and good application of this solution/roadmap; very good linkage to existing/future trends.	Excellent discussion of the chosen topic and its implications, making clear the stages of preventing cyber security issues, and excellent application of this solution/roadmap; very good linkage to existing/future trends; very clear discussion of how proposed solution/roadmap addressed emerging trends and threats in cyber security within the chosen domain.
Presentation (Visual) (Group 10%)	Presentation is disorganized and/or incoherent and/or medium is non-visual.	Presentation is adequate but limited.	Presentation is clear and has some visual impact.	Presentation is very clear and has strong visual impact.	Message is presented excellently and very clearly, and imaginatively with strong visual impact.
Presentation skills (Individual 20%)	Poor presentation and lacks in clarity.	The presentation is fair and some clarity.	Good presentation and content is clear.	Very Good presentation and content is clear.	Excellent presentation and excellent clarity of content.