School of Computing

Module Code	M30255
Module Title	Vulnerability Discovery and Exploitation
Module Coordinator Other lecturers	Dr Fudong Li Fudong.LI@port.ac.uk
Date Issued	2022-02-25

Schedule and Deliverables

Deliverable	Value	Format	Deadline / Date	Late deadline ECF deadline
Coursework	70%	word document	29th April 2022 23:00 [GMT]	13th May 2022 23:00 [GMT]
Exam	30%	written	May 2022	

Notes and Advice

- The Extenuating Circumstances procedure is there to support you if you have had any circumstances (problems) that have been serious or significant enough to prevent you from attending, completing or submitting an assessment on time. If you complete an Extenuating Circumstances Form (ECF) for this assessment, it is important that you use the correct module code, item number and deadline (not the late deadline) given above.

- ASDAC are available to any students who disclose a disability or require additional support for their academic studies with a good set of resources on the ASDAC moodle site

- The University takes any form of academic misconduct (such as plagiarism or cheating) seriously, so please make sure your work is your own. Please ensure you adhere to our *Code of Student Behaviour* and watch the video on Plagiarism.

- Any material included in your coursework should be fully cited and referenced in **APA 7** format. Detailed advice on referencing is available from the library, also see TECFAC 08 Plagiarism.

- Any material submitted that does not meet format or submission guidelines, or falls outside of the submission deadline could be subject to a cap on your overall result or disqualification entirely.

- If you need additional assistance, you can ask your personal tutor, student engagement officer ana.baker@port.ac.uk, academic tutor xia.han@port.ac.uk or your lecturers.

- If you are concerned about your mental well-being, please contact our Well-being service.

Coursework Assignment 2021-2022

Assignment Brief

For this assignment, you are tasked to create a report on the analysis of two files (file 1 and file 2) containing vulnerabilities. Also examples of input files for the two files are: input for file 1 and input for file 2. You need to identify all of the possible vulnerabilities that may exist within them. All vulnerabilities need to be proven through example. State exactly what investigations you do and what you find. You should also provide a number of recommendations on how those vulnerabilities could be mitigated. No marks are awarded for demonstrating an exploit.

This is individual coursework. Use the following structure for your report:

- Introduction (e.g. background of vulnerability discovery and exploitation, how the report is structured) (10 marks)
- Vulnerability analysis of the two given files (e.g. identify vulnerabilities within the given files along with supporting examples); (60 marks)
- Recommendations on how vulnerabilities could be mitigated (e.g. at the coding level) (20 marks)
- Structure and reference (10 marks)

Assignment Deadlines

Deadline for final assignment: 11:00 pm 29th April 2022

Final feedback on the assignment will be made available within 20 working days after the submission deadline.

Submission

This coursework must be submitted before 11:00 pm 29th April 2022 via the Turnitin link on Moodle.

Word Limits

The overall length of your final report (excluding appendices and references) should be 2,500 words (+/-10%); this means that the margin for the report is between 2,250-2,750 words. **A 5-mark will be deducted from your final mark for every 10% you exceeded the margin (e.g. 10 marks will be deducted from the final mark if the report contains 1,999 words)**. You MUST use the APA 7th referencing style when you cite and reference existing literature.

Marking Scheme

Follow the [marking rubric](#).

Plagiarism

Your final report will be checked by the Turnitin software; the similarity score of your report must be below 20%; **Marks will be deducted from your final mark according to the exact amount of similarity that you exceeded the 20% margin (e.g. 5 marks will be deducted from the final mark if the similarity score of your report is 25% and 10 marks will be deducted from the final mark if the similarity score of your report is 30%).**