Security Audit and Assessment
Individual Assignment (60%)

Intakes	: APD3F2311/ APU3F2311

Hand Out Date	: 1st Class
Due Date	: Last Class
Word Count Limit	: 3000-4000 words
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This assignment is divided into 2 sections.

Section-1 : Research on IT Security Audit - (50%)
Section-2 : Method - Implementation & Critical Evaluation of Methods for Auditors to Conduct Proper Security Auditing Techniques - (50%)

Assessed Learning Outcomes:

CLO2: Defend appropriate methods for auditors to conduct proper security auditing techniques (A4, PLO5).
CLO3: Propose auditing assessments of technical controls for vulnerability and security threats. (A5, PLO9).

Section 1: Research Proposal Work (50 marks)

Currently, our security industry shifted from face to face environment into the online platforms situation. Major revamp happen in this industry which provide advantages and disadvangates in term of revenues, infrastructure, and employment. Currently, the majority of the security based companies transformed to digitalization and procedure quality of security audit. In that line, security technology is one of the most important for the networking area to produce better security practices.

In a research proposal aspect of security audit assessment faces some issues in current industries such as Aviation, Healthcare, Military, Banking, Energy, Government, Education, E-Commerce, News Channel, etc. Assume that you are one of the reseacher in information security management and do the research in the security audit assessment area.

This research proposal work contains a **systematic literature review and critical study on related works** of at least 10 recently published papers that cover the issues or challenges in the selected area.

Therefore, the paper consists of 4 sections:

- Abstract
- Introduction
- Proposal – Research Question, Justifications and Research gap
- Subsections (Literature review)
- Conclusion
- References

Section 2: Implementation & Critical Evaluation of Methods for Auditors to Conduct Proper Security Auditing Techniques (50 marks)

Based on the industry selected in Section 1,

- You are required to prepare an **audit plan and checklist** based on information security management standards. An audit checklist is an invaluable tool for comparing a business's practices and processes to the requirements set out by security standards. The internal audit checklist contains everything needed to complete an internal audit accurately and efficiently.

- After preparing the security audit checklist and security audit plan, you required to prepare **security audit report** and **justify your findings and recommendation** to your client assuming a few nonconformities identified during audit process based on standard of information security management clauses.

Assignment Requirements

1. **Guideline of Online:**

    a) You are required to produce the work individually and do the online submission (soft copy of your assignment) on time.

    b) The assignment should attach front cover and the next page table of contents, and the front cover should have the following details: -

        - **Student's Name with TP Number**

        - **Intake code**

        - **Module code with Name**

    c) Your report must be typed using Microsoft Word with Times New Roman font size 12.

    d) Report should be in 1.5 spacing. Expected length is 3,000 words with (+/-) 10 percentages.

    e) The report must be well presented and should be *typed*. Submission of reports that are *unprofessional* in its outlook will not fare well when marks are allocated.

    f) Your report must combine all the deliverables into one coherent document.

    g) The report should have a one (1") margin all around the page as illustrated below:
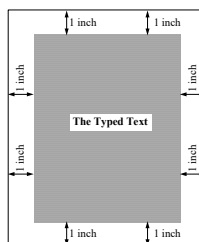
    h) Plagiarism is a serious offence and will automatically be awarded zero (0) mark.

    i) All information, figures and diagrams obtained from external sources must be referenced using the Harvard or Apa referencing system accordingly.

1. **Assessment Criteria:**

Section A:
- Introduction to the technology providing detail explanations
- Review of the related works
- Justification and critical evaluation of selected area
- Conclusion.
- Documentation
- Referencing

Section B:
- Identification and description of appropriate audit plan.
- Explanation, critical evaluation, analysis and documentation of the selected tools, techniques, or mechanisms for IT audit plan.
- Implementation of a sample audit checklist for selected industry using appropriate standards.
- Interpretation and analysis of IT Audit results.
- The quality and presentation of the submission should display a professional scholarly approach to assimilating, evaluating, and analyzing information.
- Conclusion.
- Documentation
- Referencing

2. **Marking Rubrics**

Marking Scheme (Overall 100%)

CLO2: Defend appropriate methods for auditors to conduct proper security auditing techniques (A4, PLO5).					
Marks	**1-2**	**3-4**	**5-6**	**7-8**	**9-10**
Engagement (10%)	Least attempt to engage in autonomous learning.	Minimally engage in autonomous learning	Putting effort to engage in autonomous learning	Consistently engage in autonomous learning	I highly engage in autonomous learning.
Marks Awarded					/10
Marks	**1-4**	**5-8**	**9-11**	**12-16**	**17-20**
Systematically written academic discourse (15%)	Not able to write ideas systematically	Able to write ideas with limited system and require further improvements	Able to write ideas systematically but require minor improvements.	Able to write ideas systematically	Excellent ability to write ideas systematically
					/20

Marks	1-4	5-8	9-11	12-16	17-20	
Self-Learning (15%)	Not able to self-learn.	Limited ability to self-learn.	Sufficient ability to self-learn.	Good ability to self-learn.	Excellent ability to self-learn.	
Marks Awarded						/20
A = Total Marks [50]						/50

CLO3: Propose auditing assessments of technical controls for vulnerability and security threats. (A5, PLO9).

Marks	1-6	7-10	11-15	16-18	19-20	
Effective and articulate delivery of ideas (20%)	Not able deliver ideas effectively.	Able to deliver ideas with limited effect and require further improvements.	Able to deliver ideas effectively and require minor improvements.	Able to deliver ideas effectively and articulately.	Able to deliver ideas with great effect and articulate.	
Marks Awarded						/20

Marks	1-2	3-4	5-6	7-8	9-10	
Understand and respond to questions (10%)	Not able to understand a respond to a question.	Able to understand and answer questions but not able to accurately answer the question.	Able to understand and answer questions satisfactorily.	Able to response to questions well.	Able to fully understand and respond to questions very well.	
Marks Awarded						/10

Marks	1-2	3-4	5-6	7-8	9-10	
Adapt delivery to audience level (10%)	Not able to deliver appropriately to the audience level.	Able to deliver ideas with limited appropriateness to the target audience and require further improvements.	Able to deliver ideas appropriately to the target audience satisfactory.	Able to deliver ideas appropriately to the target audience well.	Able to deliver ideas appropriately to the target audience well.	

						/10
Marks Awarded						
Marks	**1-2**	**3-4**	**5-6**	**7-8**	**9-10**	
Implementation Audit Assessment **(10%)**	Not able to think and generate new ideas for improvement	Able to think and produce some new ideas for improvement but with substantial assistance.	Able to think and produce some new ideas for improvement.	Able to think and produce ideas for improvement.	Able to think independently and produce new ideas for improvement.	
Marks Awarded						/10
B = Total Marks [50]						/50
A+B = Total Marks [100]						/ 100
Comments:						