



Princess Sumaya جامعة
University الأميرة سميرة
for Technology للتكنولوجيا

**Princess Sumaya University for Technology
King Abdullah II Faculty of Engineering**

**Fundamentals of Information Security Course
Project – Risk Assessment of a Fictional Company**

Description

Risk assessment is a process used to manage and improve the security of computer systems and networks in companies and organizations. This process involves answering three fundamental questions: (1). What assets do we need to protect? (2). How are those assets threatened? (3). What can we do to counter those threats ?.

In this assignment, you are required to develop a case study that involves applying the risk assessment process to a fictional company. There are four approaches to conducting risk assessment: the baseline approach, the informal approach, the detailed approach, and the combined approach. You are required to conduct your case study using the **combined approach**. The risk assessment process is outlined in the following steps :

- Describe a fictional company whose business operations have a high dependency on IT (Company Overview and System Characterization)
- Identify the critical assets, as well as potential threats and vulnerabilities to those assets.
- Determine the likelihood of the risk, the consequences to the company, and hence the risks the company is exposed to.
- Determine the appropriate controls that can be chosen and implemented to address the risks (Risk Register)
- Select and implement the appropriate controls to eliminate or at least minimize the identified risks (Risk Implementation Plan).
- **You are required to consider at least two ethical risks associated with employees who have insider access to the company when conducting your risk assessment. These risks may include accepting a new job offer in an inappropriate manner or disclosing critical company information without authorization.**

Deliverables

- A PowerPoint summarizing your work on ‘Risk Assessment of a Fictional Company’. The report must contain slides showing the description of the company, context of the risk assessment process, critical assets, risk registrar, and risk implementation plan. A set of sample PowerPoint reports prepared by former students can be found in the following google drive shared folder: https://drive.google.com/drive/folders/1lhrTB_a4kudVkEB-PGUgrpJrt7RI5Vva?usp=sharing.
- A video presentation of your PowerPoint report
- If time permits, your presentation will be made face-to-face at the time of the lecture.

Rules

- The assignment can be done individually or in teams of 2 students only.
- The assignment's deliverables submission deadline is **Wednesday, 31st of May 2022.**
- Only e-learning submissions are accepted.
- Reports are written in your own language and not copy-pasted from the internet.
- Your topic of choice (the fictional company) must be unique (i.e., different from the topics chosen by all students enrolled in the course and the sample reports). The earlier you decide the topic the more options you have.