

# **PSS205 Cybersecurity and Digital Transformation**

**Level:** 2

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY JULY

## **Synopsis:**

PSS205 Cybersecurity and Digital Transformation explains the concept of cybersecurity and examines security challenges in an increasingly open and virtual society. With continuous developments in technology and the constant push for digital transformation, cybersecurity has become crucial in ensuring economic success. This course discusses examples related to Singapore and the initiatives taken to enable digital disruption. Singapore's Smart Nation journey will be part of this course and the topic will allow students to understand and evaluate the regulations and policies related to cybersecurity. Students will also be exposed to risk management strategies and ways to fully harness the benefits of digital transformation.

## **Topics:**

- Concepts and practices related to cybersecurity
- Security vulnerability
- Cybersecurity risk assessment and mitigation
- Strategies and policies
- Digital transformation
- Smart Nation
- Challenges related with digital transformation
- Integrating security with digital transformation
- Responding to cybersecurity threats
- Cyberattacks
- Designing and securing cyberspace
- Cyber governance and ethics

## **Textbooks:**

Schneier, B. (2018).: Security and Survival in a Hyper-connected World. New York: W. W. Norton & Company, Inc.

ISBN-13: 9780393357448

**Learning Outcome:**

- Define the concept of cybersecurity
- Distinguish the cybersecurity risks
- Analyse the strategies promoting digital transformation
- Examine the rules and policies related to cybersecurity
- Identify challenges in the promotion of digital transformation
- Design cybersecurity measures to match digital transformation

**Assessment Strategies (Daytime Class):**

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Continuous Assessment	PRE-COURSE QUIZ 1	5
	TUTOR-MARKED ASSIGNMENT 1	20
	TUTOR-MARKED ASSIGNMENT 2	20
	DISCUSSION BOARD 1	5
Overall Examinable Components	Written Exam	50
<b>Total</b>		<b>100</b>