

PSS205 Cybersecurity and Digital Transformation

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

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:

Click Here to Kill Everybody: Security and Survival in a Hyper-connected World 1st Bruce Schneier
W.W. Norton
ISBN-13: 9780393357448

PSS205 Study Guide
ISBN-13: SG-1843

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 - Regular Semester (Daytime Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	5
	TUTOR-MARKED ASSIGNMENT 1	15
	GROUP BASED ASSIGNMENT 1	30
Overall Examinable Components	Written Exam	50
Total		100

*The information listed is subject to review and change.